

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI



TENDER DOCUMENT

TITLE OF THE JOB

**CONSTRUCTION OF REMAINING WORKS OF 3RD
FLOOR AT SERO BIOLOGY BUILDING, OJHA
CAMPUS, DUHS, KARACHI**

**DOW UNIVERSITY OF HEALTH SCIENCES,
BABA-E-URDU ROAD, BESIDES CIVIL HOSPITAL, KARACHI**

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INVITATION FOR BIDS

S. No.	NAME OF WORK	METHOD OF PROCUREMENT	COMPLETION PERIOD
1.	CONSTRUCTION OF REMAINING WORKS OF 3RD FLOOR AT SEROBIOLOGY BUILDING, OJHA CAMPUS, DUHS, KARACHI.	Single Stage Single Envelope	03 Months

Tender Fee	Rs. 2,000/- (Rupees Two Thousand Only) Non-Refundable in shape of Pay Order / Demand Draft in favor of Dow University of Health Sciences, Karachi.
Bid Security	2.5% of the total bid value.
Purchasing Date & Time	From the date of publishing to 04-07-2022 (10 a.m to 03 p.m)
Bids Delivery & Opening Date & Time	05-07-2022 at 11:30 a.m & 12:00 p.m

Address for submission and opening of bids: Bidding documents can be obtained & submitted from the Office of the Project Account Officer at Planning & Development Department, 5th Floor, Administration Block, Dow University of Health Sciences, DMC Campus Baba-e-Urdu Road Near Civil Hospital Karachi and downloaded from SPPRA website or Dow University of Health Sciences, website. Conditional Bids, Telegraphic Bids, Bids not accompanied by Bid Security of required amount and form, bids received after specific date and time and bids of Black Listed firms will be rejected. In case of any unforeseen situation or government holiday resulting in closure of office on the date of opening, bids shall be submitted / opened on next working day at the given time. The Dow University of Health Sciences, Karachi (DUHS) reserves the right to reject any or all the bids subject to the relevant provisions of SPP Rules 2010 (Amended upto date).

DIRECTOR
Planning & Development
Dow University of Health Sciences, Karachi

www.duhs.edu.pk
Baba-e-Urdu Road, Karachi - 74200 Pakistan
Tel: 021-992 9505 Fax: 021-992 9505

INSTRUCTIONS TO BIDDERS

INSTRUCTION TO BIDDERS

A. GENERAL

IB.1 Scope of Bid

- 1.1 The Employer as defined below hereinafter called “the Employer” wishes to receive bids for the construction and completion works as described below and summarized referred to as the “Works”.

Name and Address of the Employer:

The Employer is “**DOW UNIVERSITY OF HEALTH SCIENCES, BABA-E-URDU ROAD, BESIDES CIVIL HOSPITAL, KARACHI,**”

Phone: (9221) 9921-6065-68 Fax No. (9221) 9921-6065

Name of the Project & Summary of the Works:

“CONSTRUCTION OF REMAINING WORKS OF 3RD FLOOR AT SEROBIOLOGY BUILDING, OJHA CAMPUS, DUHS, KARACHI”

- 1.2 The successful bidder will be expected to complete the works within the time specified in Appendix-A to Bid.

IB.2 Source of Funds

- 2.1 The Employer 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.

IB.3 Eligible Bidders

- 3.1 This invitation for Bids is open to all Bidders meeting the following requirements:
- Duly licensed by the Pakistan Engineering Council (PEC) in appropriate category / code and their license should be valid for the current calendar year.
 - Technically and Financially capable firm having adequate managerial capacity.
 - Valid Registration with FBR, SRB and NTN.

IB.4 One Bid per Bidder

- 4.1 Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause IB.16) will be disqualified.

IB.5 Cost of Bidding

- 5.1 The bidders shall bear all costs associated with the preparation and submission of their respective bids and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENTS

IB.7 Contents of Bidding Documents

- 7.1 The Bidding Documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause IB.9.
1. Instructions to Bidders.
 2. Bidding Data.
 3. General Conditions of Contract, Part-I (GCC).
 4. Particular Conditions of Contract, Part-II (PCC).
 5. Specifications – Special Provisions.
 6. Specifications - Technical Provisions.
 7. Form of Bid & Appendices to Bid.
 8. Bill of Quantities (Appendix-D to Bid).
 9. Form of Bid Security.
 10. Form of Contract Agreement.
 11. Drawings.
- 7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the Bidder's own risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IB.8 Clarification of Bidding Documents

- 8.1 Any prospective bidder requiring any clarification (s) in respect of the Bidding Documents may notify the Employer in writing at the Employer's address indicated in the Invitation for Bids. The Employer will respond to any request for clarification which he receives earlier than (07) seven days prior to the deadline for submission of bids.

Copies of the Employer's response will be forwarded to all purchasers of the Bidding Documents, including a description of the enquiry but without identifying its source.

IB.9 Amendment of Bidding Documents

- 9.1 At any time prior to the deadline for submission of bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 7.1 hereof and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective bidders shall acknowledge receipt of each addendum in writing to the Employer.
- 9.3 To afford prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may extend the deadline for submission of bids in accordance with Clause IB.20

C. PREPARATION OF BIDS

IB.10 Language of Bid

- 10.1 The bid and all correspondence and documents related to the bid exchanged by a bidder and the Employer shall be in the bid language stipulated in the Bidding Data (English) and Particular Conditions of Contract. Supporting documents and printed literature furnished by the bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the bid language, in which case, for purposes of evaluation of the bid, the translation in bid language shall prevail.

IB.11 Documents Accompanying the Bid

- 11.1 Each bidder shall:
- (a) submit a written power of attorney authorizing the signatory of the bid to act for and on behalf of the bidder;
 - (b) update the information indicated and listed in the Bidding Data and previously submitted with the application for prequalification, and continue to meet the minimum criteria set out in the prequalification documents which as a minimum, would include the following:
 - (i) Evidence of access to financial resources along with average annual construction turnover;
 - (ii) Financial predictions for the current year and the two following years including the effect of known commitments;
 - (iii) Work commitments since prequalification;
 - (iv) Current litigation information; and
 - (v) Availability of critical equipment.

- (c) furnish a technical proposal taking into account the various Appendices to Bid specially the following:

Appendix-E to Bid Proposed Construction Schedule Appendix-F to Bid Method of Performing the Work Appendix-G to Bid List of Major Equipment Appendix-K to Bid Organization Chart for Supervisory Staff and other pertinent information.

- 11.2 Bids submitted by a joint venture of two (2) or more firms shall comply with the following requirements:

- (a) the bid and in case of a successful bid, the Form of Contract Agreement shall be signed so as to be legally binding on all partners;
- (b) one of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;
- (c) the partner-in-charge shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;
- (d) all partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(b) above as well as in the Form of Bid and in the Form of Contract Agreement (in case of a successful bid); and
- (e) a copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.

- 11.3 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the Bidders' proposals to meet the technical specifications and the completion time referred to in Sub-Clause 1.2 hereof.

IB.12 Bid Prices

- 121 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works as described in Sub-Clause 1.1 hereof, based on the unit rates and / or prices submitted by the bidder.
- 122 The bidders shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by a

Bidder will not be paid for by the Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.

- 123 All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to the deadline for submission of bids shall be included in the rates and prices and the total Bid Price submitted by a bidder.

Additional / reduced duties, taxes and levies due to subsequent additions or changes in legislation shall be reimbursed / deducted as per Sub-Clause 70.2 of the General Conditions of Contract Part-I.

- General Condition refer to page # 19-A

- 124 The rates and prices quoted by the bidders are subject to adjustment during the performance of the Contract in accordance with the provisions of Clause 70 of the Conditions of Contract. The bidders shall furnish the prescribed information for the price adjustment formulae in Appendix-C to Bid, and shall submit with their bids such other supporting information as required under the said Clause.

IB.13 Currencies of Bid and Payment

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. The Employer shall make payment only in Pak Rupees and no foreign currency payments are admissible. A bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer's country shall bear all the costs and risks for arranging the requirements of such currencies through his own resources.

IB.14 Bid Validity

- 14.1 Bids shall remain valid for the **90 Days** after the Date of Bid Opening specified in Clause IB.23.
- 14.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the bidders extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.15 in all respects.

IB.15 Bid Security

- 15.1 Each bidder shall furnish, as part of his bid, a Bid Security in the amount stipulated in the Bidding Data in Pak Rupees (2.5% of Bid Price in the form of Pay Order/ Bank Draft).
- 15.2 The Pay order shall be, at the option of the bidder, in the form of Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan

in favor of the Employer valid for a period 28 days beyond the Bid Validity date.

- 15.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.
- 15.4 The bid securities of unsuccessful bidders will be returned as promptly as possible, but not later than 28 days after the expiration of the period of Bid Validity.
- 15.5 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.
- 15.6 The Bid Security may be forfeited:
- (a) if the bidder withdraws his bid except as provided in Sub-Clause 22.1;
 - (b) if the bidder does not accept the correction of his Bid Price pursuant to Sub-Clause 27.2 hereof; or
 - (c) In the case of successful bidder, if he fails within the specified time limit to:
 - (i) furnish the required Performance Security; or
 - (ii) sign the Contract Agreement.

IB.16 Alternate Proposals by Bidder

- 16.1 Alternate Proposals by bidder are not invited. Bidder will only quote for the drawings and Design as provided in the Bidding Documents

IB.17 ERRORS, OMISSIONS & QUERIES:

17.2 (a) The bidder shall notify “the Employer” of any inconsistencies, errors and omissions found in the Bid Documents, prior to the Bid Opening Date. Withholding of any such information which will later materially affect the contract price during construction may be considered as sufficient grounds for rejection of the Bid. All queries shall be directed to The Project Director Works & Services, **“CONSTRUCTION OF REMAINING WORKS OF 3RD FLOOR AT SEROBIOLOGY BUILDING, OJHA CAMPUS, DUHS, KARACHI”**

- 17.2 (b) The DUHS, Karachi is not responsible for any verbal communications or instructions to the bidders or Acceptable of the Bid Documents.

IB.18 Format and Signing of Bid

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.
- 18.2 All appendices to Bid are to be properly completed and signed and stamped.

- 183 No alteration is to be made in the Form of Bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 184 Each bidder shall prepare by filling out the forms completely and without alterations **one (1) original and two (2) copies**, specified in the Bidding Data, of the documents comprising the bid as described in Clause IB.7 and clearly mark them “ORIGINAL” and ‘COPY” as appropriate. In the event of discrepancy between them, the original shall prevail.
- 185 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person or persons duly authorized to sign on behalf of the bidder pursuant to Sub- Clause 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person or persons signing the bid.
- 186 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, or as are necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.
- 187 Bidders shall indicate in the space provided in the Form of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent. Bids shall be prepared and submitted on the form of “the Bid “provided. All blank spaces must be filled in and completed form advance without interlineations or literation of the original wording. Bids with incomplete and /or unsigned Form of Bid may be rejected/ considered Non Responsive. The bidder shall stamp and sign each page of Bid Documents for the purpose of identification and acknowledgement of acceptance thereof. The bids must conform in all respects to the Bid Documents.
- 188 Bidders should retain a copy of the Bidding Documents as their file copy.

D. SUBMISSION OF BIDS

IB.19 Sealing and Marking of Bids

- 19.1 Each bidder shall submit his bid as under:
- (a) ORIGINAL and two (2) copies of the Bid shall be separately sealed and put in separate envelopes and marked as such.
 - (b) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in Sub- Clause 19.2 hereof.
- 19.2 The inner and outer envelopes shall:
- be addressed to the Project Accounts Officer at Planning & Development Department (DMC Campus), Baba-e- Urdu Road near Civil Hospital DUHS, Karachi; Phone/Fax:
 - (a) **Phone: (92-21)9921-6065**

Bear the name and identification number of the contract as defined in the Bidding Data; and
“CONSTRUCTION OF REMAINING WORKS OF 3RD FLOOR AT SEROBIOLOGY BUILDING, OJHA CAMPUS, DUHS, KARACHI”

- (b) provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data.

19.3 In addition to the identification required in Sub- Clause 19.2 hereof, the inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared “late” pursuant to Clause IB.21

19.4 Single Stage- One Envelope Procedure

- a) Notice inviting tenders and bidding documents of this method shall contain the following eligibility criteria:
 - i. Relevant experience;
 - ii. Turn-over of at least three years;
 - iii. Registration with Income Tax, Sales Tax, SRB and Pakistan Engineering Council (where applicable);
 - iv. Any other factor deemed to be relevant by the procuring agency subject to provision of Rule 44;
- b) Each bid shall comprise one single envelope containing the financial proposal and required information mentioned at clause (a) above;
- c) All bids received shall be opened and evaluated in the manner prescribed in the Notice Inviting Tenders or bidding Document

IB.20 Deadline for Submission of Bids

- 20.1 (a) Bids must be received by the Employer at the address specified no later than the time and date stipulated in the Bidding Data.
- (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims will be entertained for refund of such expenses.
- (c) Where delivery of a bid is by mail and the bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package.
- (d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.
- 20.2 The Employer may, at his discretion, extend the deadline for submission of bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

IB.21 Late Bids

- 21.1 (a) Any bid received by the Employer after the deadline for submission of bids prescribed in Clause IB.20 will be returned unopened to such bidder.
- (b) Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the bidder’s responsibility to determine the manner in which timely delivery of his bid will be accomplished either in person, by messenger or by mail.

IB.22 Modification, Substitution and Withdrawal of Bids

- 22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the Employer prior to the deadline for submission of bids.
- 22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer and inner envelopes additionally marked “MODIFICATION”, “SUBSTITUTION” or “WITHDRAWAL” as appropriate.
- 22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with Sub-Clauses 22.1 and 27.2.
- 22.4 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security in pursuance to Clause IB.15.

E. BID OPENING AND

EVALUATION IB.23 Bid Opening

- 23.1 The Employer will open the bids, including withdrawals, substitution and modifications made pursuant to Clause IB.22, in the presence of bidders’ representatives who choose to attend, at the time, date and location stipulated in the Bidding Data. The bidders’ representatives who are present shall sign a register evidencing their attendance.
- 23.2 Envelopes marked “MODIFICATION”, “SUBSTITUTION” or “WITHDRAWAL” shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause IB.22 shall not be opened.
- 23.3 The bidder’s name, total Bid Price and price of any Alternate Proposal(s), any discounts, bid modifications, substitution and withdrawals, the presence or absence of Bid Security, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening of bids.
- 23.4 The Consultant on behalf of Employer shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the Sub-Clause 23.3.

IB.24 Process to be Confidential

- 24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such

process Any effort by a bidder to influence the Employer's processing of bids or award decisions may result in the rejection of such bidder's bid.

IB.25 Clarification of Bids

25.1 To assist in the examination, evaluation and comparison of bids, the Employer may, at his discretion, ask any bidder for clarification of his bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the bids in accordance with Clause IB.28.

IB.26 Examination of Bids and Determination of Responsiveness

26.1 Prior to the detailed evaluation of bids, the Employer will determine whether each bid is substantially responsive to the requirements of the Bidding Documents.

26.2 A substantially responsive bid is one which (i) meets the eligibility criteria; (ii) has been properly signed; (iii) is accompanied by the required Bid Security; and (iv) conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the Works; (ii) which limits in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the bidder's obligations under the Contract; or (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

26.3 If a bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

IB.27 Correction of Errors

27.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:

- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
- (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.

- 272 The amount stated in the Form of Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected Bid Price, his Bid will be rejected, and the Bid Security shall be forfeited in accordance with Sub- Clause 15.6(b) hereof.

IB.28 Evaluation and Comparison of Bids

- 28.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26.
- 28.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:
- (a) making any correction for errors pursuant to Clause IB.27;
 - (b) excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities, but including competitively priced Day work; and
 - (c) making an appropriate adjustment for any other acceptable variation or deviation.
- 28.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.
- 28.4 If the Bid of the successful bidder is seriously unbalanced in relation to the Employer's estimate of the cost of work to be performed under the Contract, the Employer may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the Performance Security set forth in Clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful bidder under the Contract.
- 28.5 A bid with highly inflated or unworkable rates of any BOQ items may be considered non-conforming and rejected. The Employer may also disqualify such bidder from participating in the subsequent bids who submits such unbalanced and/or unworkable rates of major items of work.

F. AWARD OF CONTRACT

IB.29 Award

- 29.1 Subject to Clauses IB.30 and IB.34, the Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, Provided that such bidder has been determined to be eligible in accordance with the provisions of Clause IB.3 and qualify pursuant to Sub-Clause IB 29.2.

- 29.2 The Employer, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in supplier's or contractor's capacities, may require the suppliers or contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided that such qualification shall only be laid down after recording reasons therefor in writing. They shall form part of the records of that bid evaluation report.

IB.30 Employer's Right to accept any Bid and to reject any or all Bids

- 30.1 Notwithstanding Clause IB.29, the Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation except that the grounds for rejection of all bids shall upon request be communicated to any bidder who submitted a bid, without justification of grounds. Rejection of all bids shall be notified to all bidders promptly.

IB.31 Notification of Award

- 31.1 Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing ("Letter of Acceptance") that his Bid has been accepted. This letter shall name the sum which the Employer will pay the Contractor in consideration of the execution and completion of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called the "Contract Price").
- 31.2 No Negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, Employer may have clarification meetings to get clarify any item in the bid evaluation report.
- 31.3 The notification of award and its acceptance by the bidder will constitute the formation of the Contract, binding the Employer and the bidder till signing of the formal Contract Agreement.
- 31.3 Upon furnishing by the successful bidder of a Performance Security, the Employer will promptly notify the other bidders that their Bids have been unsuccessful and return their bid securities.

IB.32 Performance Security

- 32.1 The performance security shall be equal to an amount of 10% of the contract Price stated in the Letter of Acceptance. Such Security shall be in the Form of Pay order/irrevocable Bank Guarantee from any scheduled Bank of Pakistan acceptable to the Employer in favor of Dow University of Health Sciences, Karachi. The performance security will be valid for a period (up to the completion of the Project) after the date of issue of Defect Liability Certificate.
- 32.2 Failure of the successful bidder to comply with the requirements of Sub-Clause IB.32.1 or Clauses IB.33 or IB.35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

IB.33 Signing of Contract Agreement

- 33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will send the successful bidder the Contract Agreement in the form provided in the Bidding Documents, incorporating all agreements between the parties.
- 33.2 The formal Agreement between the Employer and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the Employer.

IB.34 General Performance of the Bidders

The Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts/works. The Employer may in case of consistent poor performance of any Bidder as reported by the employers of the previously awarded contracts, interilic, reject his bid and/or refer the case to the Pakistan Engineering Council (PEC). Upon such reference, PEC in accordance with its rules, procedures and relevant laws of the land take such action as may be deemed appropriate under the circumstances of the case including black listing of such Bidder and debarring him from participation in future bidding for similar works.

IB.35 Integrity Pact

The Bidder shall sign and stamp the Integrity Pact provided at Appendix-L to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

IB.36 Instructions not Part of Contract

Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist bidders in preparing their bids, and do not constitute part of the Bid or the Contract Documents.

BIDDING DATA

[NOTES ON BIDDING DATA]

This Section is intended to assist the Employer in providing the specific information in relation to corresponding clauses in Instructions to Bidders and should be prepared to suit each individual contract.

The Employer should provide in the Bidding Data information and requirements specific to the circumstances of the Employer, the processing of the Bid, the applicable rules regarding Bid Price and currency, and the Bid evaluation criteria that will apply to the Bids. In preparing this section, the following aspects should be checked:

- (a) Information that specifies and complements the provisions of section; Instruction to Bidders must be incorporated.
- (b) Amendments and/or supplements, if any, to the provisions of Instructions to Bidders, necessitated by the circumstances of each individual contract, can be introduced only in this section since Instructions to Bidders will remain unchanged.]

Bidding Data

1.1 Name and address of the Employer:

The Employer is Dow University of Health Sciences, Karachi
Phone / Fax: (9221) 9921-6065

Name of the Project & Summary of the Works:

CONSTRUCTION OF REMAINING WORKS OF 3RD FLOOR AT SEROBIOLOGY BUILDING, OJHA CAMPUS, DUHS, KARACHI

The work involves execution of Civil, Electrical, and Plumbing and allied Works in accordance with the design, Drawings, Technical Specifications, Bill of Quantities and Instructions of the Client/ Consultant with special emphasis on Quantity and Quality control ethics.

IB.2 Source of Funds:

The Employer 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.

IB.3 Eligible Bidders

As notified in NIT and Bidding Document.

IB.8.1 Time limit for clarification:

The Employer will respond to any request for clarification which he receives earlier than (07) Seven Days prior to the deadline for submission of bids

IB.10 Bid language:

The bid and all correspondence and documents related to the bid exchanged by a bidder and the Employer shall be in the English Language.

IB.11.1(c) Furnish Technical Proposal:

The bidder to submit a technical proposal in sufficient detail to demonstrate the adequacy of the bid in meeting requirements for timely completion of the Works and taking into account the various appendices to Bid specified into instructions to Bidder

IB.13.1 Currencies of Bid and Payment

The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. The Employer shall make payment only in Pak Rupees and no foreign currency payments are admissible. A bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer's country shall bear all the costs and risks for arranging the requirements of such currencies through his own resources.

IB.14.1 Period of Bid Validity:

Bids shall remain valid for the **90 Days** after the date of bid opening.

IB.15.1 Amount of Bid Security:

Minimum **2.5%** of Bid Price in the form of Pay Order/ Bank Draft

IB.18.4 Number of copies of the Bid to be completed and submitted:

One (1) original and two copies must be submitted.

IB.19 Sealing and Marking of Bids**19.2(a) Employer's address for the purpose of Bid Submission**

5TH Floor administration building DMC Campus, Office of the Project Account Officer at Planning & Development Department (DMC Campus), Baba-e- Urdu Road near Civil Hospital DUHS, Karachi; Phone/Fax: (92-21)99216065

19.2 (a) (b) Name and number of the Contract

Bear the contract name **“CONSTRUCTION OF REMAINING WORKS OF 3RD FLOOR AT SEROBIOLOGY BUILDING, OJHA CAMPUS, DUHS, KARACHI”**

IB. 20.1(a) Deadline for submission of bids:

As notified in “Invitation to Bids”

IB. 23.1 Venue, Time and Date of Bid opening:

As notified in “Invitation to Bids”

I.B.32.1 Standard form and amount of Performance Security acceptable to the Employer:

The performance security shall be equal to an amount of **10%** of the contract Price stated in the Letter of Acceptance. Such Security shall be in the Form of unconditional, irrevocable Bank Guarantee from any scheduled Bank of Pakistan acceptable to the Employer in favor of Dow University of Health Sciences. The performance security will be valid for a period (up to the completion of the Project) after the date of issue of Defect Liability Certificate.

Contract/Bidding Data

The following specific data for the works to be tendered shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

Instructions to Bidders

Clause Reference

- 1.1.1 Name and address of the procuring agency:
Office of the Project Accounts Officer at Planning & development Department
(DMC Campus) Bab-e- Urdu Road near Civil Hospital DUHS,
Phone: (92-21)9921-6065
- 1.2 Name of the Project and Summary of the works:
“REMAINING WORK - CONSTRUCTION OF REMAINING WORKS OF 3RD FLOOR AT SEROBIOLOGY BUILDING, OJHA CAMPUS, DUHS, KARACHI”
- 8.1 Time limit for clarification:
07 (Seven) working days prior to last date of submission
- 10.1 Bid language:
English
- 11.1 (a) Prequalification Information to be updated (where applicable):
Not applicable
- 11.1 (b) Furnish Company Profile for Single Stage One Envelope:
Following are minimum Mandatory requirement
- i. The bidder must have done at least five (05) contracts of similar nature preferably of building hospitals or education building. (Please submit copy of PO/Contract / Agreement / Notification of Award / Completion Certificate).
 - ii. The bidder must have turnover/sales exceeding 300 Million in PKR annually in any of last three years (Submission of Audited Annual Reports or reputable bank letter or bank statement of any last three years.
 - iii. Bidder must submit undertaking on 100/- legal stamp paper confirming he is not declared black listed by any procuring agency of Pakistan if proved blacklisted his bid security shall be forfeited.
 - iv. Bidder must submit valid NTN, GST and SRB registration number or copy of certificates.
 - v. PEC Registration in at least category C5
- 32.3 Stamp duty
0.35% will be paid by successful bidder as stamp duty.

**FORM OF BID
AND
APPENDICES TO BID**

FORM OF BID

Bid Reference No. _____
 (Name of Contract/Works)

To:

Gentleman, _____

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract. Specifications, Drawings and Bill of Quantities and Addenda Nos. _____ for the execution of the above-named Works, we, the undersigned, offer to execute and complete such Works and remedy any defects therein in conformity with the Conditions of Contract. Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. _____ (Rupees _____) or such other sum as may be ascertained in accordance with the said conditions.
2. We understand that all the Appendices attached hereto form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the amount of Rupees _____ (Rs. _____) drawn in your favor or made payable to you and valid for a period of _____ days beginning from the date Bids are opened.
4. We undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in Appendix-A to Bid.
5. We agree to abide by this Bid for the period of _____ days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the Works.

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

Dated this _____ day of _____ 20_____

Signature: _____

in the capacity of _____ duly authorized to sign Bids for and on behalf of

(Name of Bidder in Block Capitals) (Seal)

Address: _____

Witness:

Signature: _____

Name: _____

Address. _____

Occupation_ _____

BIDDING DATA

The following specific data for the works to be procured shall complement, supplement or amend the provisions in the terms & Conditions of bidding documents.

Whenever there is a conflict, the provisions herein shall prevail over those in terms & conditions of the bidding documents.

Terms and Conditions of Contract

1	Name of Procuring Agency:	Dow University of Health Sciences, DMC Campus Baba-e-Urdu Road Near Civil Hospital Karachi.
2	Brief Description of Works:	Construction of Remaining Works of 3 rd Floor at Serobiology Building Ojha Campus Duhs Karachi.
3	Amount of Bid Security	2.5% Amount in shape of Deposit at Call or Pay Order demand Draft or a bank Guarantee in favor of Dow University of Health Sciences, Karachi Issued by a Scheduled bank in Pakistan
4	Amount of Performance Security	10% of the Contract price. Total amount including Performance Security and retention money deducted from bills 5% of contract price stated in Letter of Acceptance.
5	Period of Bid Validity (Days)	90 Days
6	Percentage of Retention Money	10% of the amount of the Interim / Running Payment Certificate.
7	Venue ,Time and Date of Bid Opening	As Notified in NIT
8	Deadline for Submission of Bid along with time:	As Notified in NIT
9	Currency of Bid:	Pakistani Rupees.
10	Time for furnishing Program	Within 14 Days from the date of receipt of Letter of Acceptance.
11	Time for Commencement	Within 07 days from the date of receipt of Engineer's Notice to Commence.
12	Time for Completion of Works	03 (Three) months from the date of receipt of Engineer's Notice to Commence.
13	Amount of Liquidity Damages/Delay Damages /Penalties	One tenth of one percent (0.10%) for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price and after that termination of contract after 07 days' Notice.
14	Defects Liability Period	180 days from the effective date of Taking Over Completion Certificate.

PRICE ADJUSTMENT UNDER CLAUSE 70 OF CONDITIONS OF CONTRACT

The source of indices and the weightages or coefficients for use in the adjustment formula under Clause 70 shall be as follows:

(To be filled by the Employer)

Cost Element	Description	Weightages	Applicable index
1	2	3	4
(i)	Fixed Portion	0.60	
(ii)	Local Labor	0.12	Government of Pakistan (GP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement – in bags	0.06	“ “ “
(iv)	Reinforcing Steel	0.20	“ “ “
(v)	High Speed Diesel (HSD)	0.02	“ “ “
			“ “ “
			“ “ “
	Total	1.000	

Notes:

- 1) Indices for “(ii)” to “(vii)” are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 28 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the billing period.
- 2) Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.
- 3) Fixed portion shown here is for typical road project, Employer to determine the weightage of Fixed Portion considering only those cost elements having cost impact of seven (7) percent or more on his specific project.

(Employers using this price adjustment provisions may add or delete any elements as deemed appropriate to the project.)

BILL OF QUANTITIES

A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labor, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore, all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
6. General directions and description of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 58.2 of Part I, General Conditions of Contract.

BILL OF QUANTITIES

B. Work Items

1. The Bill of Quantities contains the following Bills and Schedule:
(by way of example)

Bill No. 1	-
Bill No. 2	-
Bill No. 3	-
Bill No. 4	-
Bill No. 5	-
Day work Schedule	
Summary Bill of Quantities	

2. Bidders shall price the Bill of Quantities in Pakistani Rupees only.

BILL OF QUANTITIES

Bill No.1 _____

	Description	Unit	Quantity	Rate		Amount
				Rupees in figures	Rupees in Word	
1	2	3	4	5		6
101						
102						
103						
104						
105						
106						
Total for Bill No.1 (Carried Forward to Summary Page) _____						

BILL OF QUANTITIES

C. Day work

Schedule General

1. Reference is made to Sub-Clause 52.4 of the General Conditions of Contract Part-I. Work shall not be executed on a day work basis except by written order of the Engineer. Bidders shall enter basic rates for Day work items in the Schedules, which rates shall apply to any quantity of Day work ordered by the Engineer. Nominal quantities have been indicated against each item of Day work, and the extended total for Day work shall be carried forward to the Bid Price.

Day work Labor

2. In calculating payments due to the Contractor for the execution of Day work, the actual time of classes of labor directly doing the Day work ordered by the Engineer and for which they are competent to perform will be measured excluding meal breaks and rest periods. The time of gingers (charge hands) actually doing work with the gang will also be measured but not the time of foreman or other supervisory personnel.
3. The Contractor shall be entitled to payment in respect of the total time that labor is employed on Day work, calculated at the basic rates entered by him in the Schedule of Day work Rates for labor together with an additional percentage, payment on basic rates representing the Contractor's profit, overheads, etc., as described below:
 - a) the basic rates for labor shall cover all direct costs to the Contractor, including (but not limited to) the amount of wages paid to such labor, transportation time, overtime, subsistence allowances and any sums paid to or on behalf of such labor for social benefits in accordance with Pakistan law. The basic rates will be payable in local currency only; and
 - b) the additional percentage payment to be quoted by the Bidder and applied to costs incurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities and insurances and allowances to labor timekeeping and clerical and office work; the use of consumable stores, water, lighting and power; the use and repair of staging, scaffolding, workshops and stores, portable power tools, manual plant and tools; supervision by the Contractor's staff, foremen and other supervisory personnel; and charges incidental to the foregoing.

Day work Material

4. The Contractor shall be entitled to payment in respect of materials used for Day work (except for materials for which the cost is included in the percentage addition to labor costs as detailed heretofore), at the basic rates entered by him in the Schedule of Day work Rates for materials together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:
 - a) The basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the site. The basic rates shall be stated in local currency but payment will be made in the currency or currencies expended upon presentation of supporting documentation;
 - b) the additional percentage payment shall be quoted by the Bidder and applied to the equivalent local currency payments made under Sub-Para(a) above; and
 - c) the cost of hauling materials used on work ordered to be carried out as Day work from the store or stockpile on the site to the place where it is to be used will be paid in accordance with the terms for Labor and Constructional Plant in this Schedule.

Day work Constructional Plant

5. The Contractor shall be entitled to payments in respect of constructional plant already on Site and employed on Day work at the basic rental rates entered by him in the Schedule of Day work Rates for constructional plant. The said rates shall be deemed to include complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants will be paid for separately as described under the section on Day work Labor.

6. In calculating the payment due to the Contractor for constructional plant employed on Day work, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the travelling time from the part of the Site where the constructional plant was located when ordered by the Engineer to be employed on Day work and the time for return journey thereto shall be included for payment.

7. The basic rental rates for constructional plant employed on Day work shall be stated in Pakistani Rupees.

PROPOSED CONSTRUCTION SCHEDULE

Pursuant to Sub-Clause 43.1 of the General Conditions of Contract, the Works shall be completed on or before the date stated in Appendix-A to Bid. The Bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and parts of the Works may meet Employer's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence (Attach sheets as required for the specified form of Construction Schedule):

<u>Description</u>	<u>Time for Completion</u>
a) Whole Works	_____ days
b) Part-A (ARCHITECTURAL WORK)	_____ days
c) Part-B (PLUMBING WORK)	_____ days
d) Part-C (ELECTRICAL WORK)	_____ days
e) Part-D (DATA & VOICE WORK)	_____ Days
f) FIRE DETECTION AND ADDRESSABLE FIRE ALARM SYSTEM WORK	_____ Days
g) CCTV SYSTEM WORK	_____ Days

METHOD OF PERFORMING THE WORK

[The Bidder is required to submit a narrative outlining the method of performing the Work. The narrative should indicate in detail and include but not be limited to:

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.]

LIST OF MAJOR EQUIPMENT – RELATED ITEMS

[The Bidder will provide on Sheet 2 of this Appendix a list of all major equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the Works. The information shall include make, type, capacity, and anticipated period of utilization for all equipment which shall be in sufficient detail to demonstrate fully that the equipment will meet all requirements of the Specifications.]

LIST OF MAJOR EQUIPMENT

Owned Purchased or Leased	Description of Unit (Make, Model, Year)	Capacity HP Rating	Condition	Present Location or Source	Date of Delivery at Site	Period of Work on Project
1	2	3	4	5	6	7
a. Owned						
b. To be Purchased						
c. To be arranged on Lease						

CONSTRUCTION CAMP AND HOUSING FACILITIES

The Contractor in accordance with Clause 34 of the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements.

The Contractor shall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the Contractor's construction camp.

The Bidder shall list or explain his plans for providing these facilities for the service of the Contract as follows:

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
 - a) Power (expected power load, etc.).
 - b) Water (required amount and system proposed).
 - c) Sanitation (sewage disposal system, etc.).
3. Construction of Facilities
 - a) Contractor's Office. Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).
 - b) Warehouses and Storage Areas (area required, type of construction and layout).
 - c) Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.).
4. Construction Equipment Assembly and Preparation (detailed plans for carrying out this activity).
5. Other Items Proposed (Security services, etc.)
6. The Contractor's responsibility to arrange the water for construction work or wherever water require for the execution of work. The client will not provide the water and contractor arrange outside from the university premises on his own basis. Before use water, contractor should submit the test report from PCSIR laboratory.
7. Contractor will arrange electricity source on its own basis or use an alternate of source of electricity (like Generator) or contractor can take temporary connection from university. Connection would be on sub meter. Contractor will liable to pay bill to university for the temporary connection.

ESTIMATED PROGRESS PAYMENTS

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Programme of the Works and the Rates in the Bill of Quantities, expressed in thousands of Pakistani Rupees:

Quarter/ Year/ Period	Amounts (1000 Rs.)
1	2
1st Quarter	
2nd Quarter	
Bid Price	

ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF

(INTEGRITY PACT)
DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.
PAYABLE BY CONTRACTORS.

(FOR CONTRACTS WORTH RS. 10.00 MILLION OR MORE)

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

_____(Name of Contractor) hereby declares that it has not obtained or induce 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 any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing (Name of contractor) 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 judicial 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 including the procurement of a contract, right, interest privilege or other obligation or benefits in whatsoever from, procuring agency (PA) except that has been expressly declared pursuant hereto.

(Name of Contractor) accepts full responsibility and strict liability that it has made and will make full disclosure of all agreements and arrangements with all person 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 Contractor) accepts full responsibilities and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of 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 rights 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 regards, (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 time the sum of any commission, gratification, bribe, finder's fee or kickback given by (name of contractor) as aforesaid for purpose of obtaining or including the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from PA.

(PROCURING AGENCY)

(CONTRACTOR)

FORMS

**BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT**

BID SECURITY
(Bank Guarantee)

Security Executed on _____
(Date)

Name of Surety (Bank) with Address: _____
(Scheduled Bank in Pakistan)

Name of Principal (Bidder) with Address _____

Penal Sum of Security Rupees. _____ (Rs. _____)

Bid Reference No. _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal (Bidder) we, the Surety above named, are held and firmly bound unto _____

(hereinafter called the 'Employer') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying Bid dated _____ for Bid No. _____ for _____ (Particulars of Bid) to the said Employer; and

WHEREAS, the Employer has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the Employer, conditioned as under:

- (1) that the Bid Security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived;
- (2) that the Bid Security of unsuccessful Bidders will be returned by the Employer after expiry of its validity or upon signing of the Contract Agreement; and
- (3) that in the event of failure of the successful Bidder to execute the proposed Contract Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said Employer pursuant to Clause 15.6 of the Instruction to Bidders for the successful Bidder's failure to perform.

NOW THEREFORE, if the successful Bidder shall, within the period specified therefor, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the Employer the said sum upon first written demand of the Employer (without cavil or argument) and without requiring the Employer to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Employer by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the Employer forthwith and without any reference to the Principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY (Bank)

WITNESS:

Signature _____

1. _____

Name _____

Title _____

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2. _____

Name, Title & Address

**FORM OF PERFORMANCE SECURITY
(Bank Guarantee)**

Guarantee No. _____

Executed on _____

Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with address: _____

(Scheduled Bank in Pakistan)

Name of Principal (Contractor) with address: _____

Penal Sum of Security (express in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____ (Name of Contract) for the _____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 49, Defects Liability, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

	_____ Guarantor (Bank)
Witness:	
1. _____	Signature _____
	Name _____
_____ Corporate Secretary (Seal)	Title _____
2. _____	
_____ Name, Title & Address	_____ Corporate Guarantor (Seal)

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ (month) 2022 between _____ (hereafter called the "Employer") of the one part and _____ (hereafter called the "Contractor") of the other part.

WHEREAS the Employer is desirous that certain Works, viz _____ should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnessed 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 hereinafter referred to.
2. The following documents after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement;
 - (b) The Letter of Acceptance;
 - (c) The completed Form of Bid;
 - (d) Special Stipulations (Appendix-A to Bid);
 - (e) The Particular Conditions of Contract – Part II;
 - (f) The General Conditions – Part I;
 - (g) The priced Bill of Quantities (Appendix-D to Bid);
 - (h) The completed Appendices to Bid (B, C, E to L);
 - (i) The Drawings;
 - (j) The Specifications.
 - (k) _____ (any other)
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, 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 on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

Signature of Employer

(Seal) _____

(Seal) _____

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

(Name, Title and Address)

(Name, Title and Address)

BILL OF QUANTITIES

**SUMMARY SHEET FOR TOTAL COST OF REMAINING WORK OF 3RD
FLOOR SEROBIOLOGY BUILDING (EACH)
ARCHITECTURE, PLUMBING, ELECTRICAL, DATA VOICE, FIRE ALARM &
CCTV WORKS**

S. No	DESCRIPTION	Amount
1	TOTAL COST OF ARCHITECTURAL WORK	
2	TOTAL COST OF PLUMBING WORK	
3	TOTAL COST OF ELECTRICAL WORK	
4	TOTAL COST OF DATA & VOICE WORK (Essential items)	
5	TOTAL COST OF FIRE DETECTION AND ADDRESSABLE FIRE ALARM SYSTEM WORK	
6	TOTAL COST OF CCTV SYSTEM WORK	
	TOTAL AMOUNT RS.	

Sr. #	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (RS.)
	PART "A" THIRD FLOOR				
	(i) ARCHITECTURAL WORK				
1	P/F printed Granite porcelain tiles flooring (24" x 24" x 1/2" or above) jointed in white cement & laid over bed of 1" to 2" thick grey cement concrete bed in ratio 1:2:4 i/c washing /filling of joints with white cement etc. complete in all respect.				
(a)	Flooring	Sft	680		
(b)	Wall dado	Sft	448		
(c)	Border/skirting 6" wide	Rft	150		
2	S/F in position Aluminum box channels framing (100 mm x 40 mm) for sliding windows & ventilators with collar of Alcop/equivalent made (of approved make & design) with 5 mm thick tinted glass glazing (Belgium) & aluminum fly screen channel i/c handles, stoppers & locking arrangements etc. complete in all respects as per directives of Engineer In-charge.	Sft	460		
3	Supply and fix MS doors made of steel 2mm thickness both sides as per specification and instructions of supervisor engineer. Price to include door frame of galvanized steel 2mm thickness, metallic painting of door and door frame, ironmongery, cylinders, and cylindrical locks and handles (as approved), Glass and glazing to be 6mm thick as directed by the engineer, including cutting to size, putty and rubber; door closure of good quality and all accessories as per Engineer instructions.	Sft	90		
4	S/F window printed blinds Shangrila (Horizontal/Vertical) with printed design & of approved colour i/c fixing in windows with necessary accessories etc. complete in all respects as per directives of Engineer In-charge.	Sft	2300		
5	Providing, supplying and applying epoxy flooring of (average 3mm thickness) on concrete flooring, including surface preparation, application of primer, screed and top coat etc. to have a neat and smooth finish that included; (a) Moisture Barrier:- After the floor preparation by grinding the floor for removal of unwanted extra pitting to provide the smooth floor and providing and applying, waterborne epoxy primer is applied with a brush or short / medium pile roller by ensuring a uniform coating is achieved and compensated the differences in surface porosity, allowing to dry for 24 Hrs., etc. and complete as per manufacturer's specification. (b) Primer:- After the moisture barrier completed & dried for further operation, solvent free epoxy primer base for epoxy flooring is applied with a brush or short / medium pile roller by ensuring a uniform coating is achieved and compensated the differences in surface porosity, allowing to dry for 24 Hrs. etc. and complete as per manufacturer's specification. (c) Epoxy screed:-Providing and installing, high performance, epoxy resin flooring system by mixing all 3 components using heavy duty slow speed drilling machine fixed with mixing paddle, pouring of mixed material on the primed surface and spreading it using suitable trowel / pin rake trowel at required thickness around 3 mm, gently rolling the spike roller to remove the entrapped air, etc. and complete as per manufacturer's specification.	Sft	2500		

6	<p>(d) Epoxy Flooring:- Providing and installing, high performance, epoxy resin flooring system top coat of around 1 mm by mixing all components using heavy duty slow speed drilling machine fixed with mixing paddle, pouring of mixed material on the primed surface and spreading it using suitable trowel at average 1mm thickness, gently rolling the surface using spike roller to remove the entrapped air, etc. and complete as per manufacturer's specification.</p> <p>The work shall be executed as per the direction of engineer in Charge The methodology for Surface preparation, application of moisture barrier coat/primer/scratch coat etc. shall be as per the manufacturers recommendation/guidelines The rate quoted shall include supply of material, labor and other material or components which are necessary to complete the work in all respects and taxes as applicable.</p> <p>Providing and applying coving at all horizontal junction of size 75 X 75 mm, including surface preparation etc. to have a neat and smooth surface finish.</p> <p>The materials for coving should be solvent free combination of epoxy resin, modified amine hardeners filled with specially graded and selected high strength, chemically inert aggregates. It should have high resistance to industrial chemicals.</p> <p>The rate quoted shall include supply of material, labor and other material or components which are necessary to complete the work in all respects.</p>	Rft	500		
7	<p>Providing & fixing of frosted Paper at glass partition or wherever required, complete in all respect as per directive by engineer in charge, DUHS.</p>	Sft	3500		
SUB TOTAL FOR CIVIL WORK CARRIED TO SUMMARY					
	(ii) PLUMBING WORK				
1	<p>Providing & fixing English Commode with Seat cover including flushing cistern, tee stop cock etc. complete in all respects (Porta /Marachi or equivalent).</p>	Nos.	11		
2	<p>Providing & Fixing Wash Basin size 24" x18" with wash basin mixture and pedestal etc. complete in all respects Providing and fixing C.P Brass Double bib cock with Muslim Shower 1/2" diameter (Master/ Sonex or equivalent).</p>	Nos.	11		
3	<p>P/F C.P Brass Double bib cock with Muslim Shower 1/2" dia (Master/Sonex or equivalent)</p>	Nos.	15		
4	<p>Providing and fixing C.P Brass Fancy bib cock with crystal head 1/2" dia (Master / Sonex or equivalent).</p>	Nos.	10		
5	<p>P/F C.P Brass Concealed Stop cock with crystal head 1/2" dia (Master/Sonex or equivalent)</p>	Nos.	22		
6	<p>Providing & fixing 24" x 18" bavelled edge mirror of belgium glass complete with glass shelf, 1/8" thick hard board and c.p screws fixed to wooden pleat. (Superior Quality)</p>	Sft.	40		
SUB TOTAL FOR PLUMBING WORK CARRIED TO SUMMARY					
	(iii) ELECTRICAL WORK				
1	<p>Providing and wiring of circuit with 3x2.5 mm from Distribution Board to respective light switch board as shown on drawing & as per directive by engineer in charge, DUHS. MAKE: Pakistan cable, Pioneer Cables or Equivalent</p>	Nos.	40		

2	Providing & wiring of one or first light point controlled through one switch/light dimmer wired with 3x1.5 mm S/C PVC insulated cable laid in 20mm dia PVC pipe concealed in wall/slab/floor as per site condition complete with all wiring & conducting accessories such as C/I Saddle junction box flexible PVC pipe between roof & false ceiling/light fixture complete in all respect MAKE: Pakistan cable, Pioneer Cables or Equivalent	Nos.	180		
3	Same as item # 2, wiring and conducting of point to point (looping) with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 25 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories (wherever required) as per the specifications and drawings and per directive by engineer in charge, DUHS.. MAKE: Pakistan cable, Pioneer Cables or Equivalent	Nos.	250		
4	Circuit wiring 3x4 sq.mm from Distribution Board to power socket switch including conduits and all necessary accessories complete in all respect; as shown on drawing & as per instruction of per directive by engineer in charge, DUHS.. (Maximum length of circuit from D.B To Switch Board should be 75 Rft) MAKE: Pakistan cable, Pioneer Cables or Equivalent	Nos.	70		
5	Same as item No 1 above but wiring with 3x2.5 mm for 5/10/15 Amp light/Power Switch Socket outlet for multipurpose use per directive by engineer in charge, DUHS. (Clipsal C-Vivace for Switches & Sockets Outlets or Equivalent	Nos.	150		
6	Supply & Installation of following 10 Amps switches or 10/13/15/20 Amps socket outlets make including 16 SWG sheet steel back boxes recessed / surface on wall or as per design drawings and per directive by engineer in charge, DUHS. (Clipsal C-Vivace for Switches & Sockets Outlets or Equivalent)				
(a)	10A, 220V One Gang Switch Unit	Nos.	10		
(b)	10A, 220V Two Gang Switch Unit	Nos.	30		
(c)	10A, 220V Three Gang Switch Unit	Nos.	25		
(d)	10A, 220V Four Gang Switch Unit	Nos.	27		
(e)	10A, 220V Five Gang Switch Unit	Nos.	5		
(f)	13A, International Switch Socket unit	Nos.	220		
7	Supply, Installation, Testing & Commissioning of the following lighting fixtures complete with driver and specified lamps with installation and hanging accessories upto 1 meter length for all pendant lights. Note: 1) Power factor of all light fixture shall not be less than 0.9. 2) Efficacy >100lm/W and CRI > 90. 3) All down light shall have COB ship. 4) Fixture must be made of die-cast aluminum with aluminum heat sink. 5) All light fixture shall be finalized after taking approval from engineer in charge, DUHS. 6) Minimum 3 year warranty required from date of successful commissioning of light and driver both.				
8	Ceiling Recessed 45W LED Panel 600 x 600mm Fixture of Diffused Glass Color Temp 4000K CRI 90%	Nos.	325		
9	Providing & Fixing of LED Panel Light 6" Round 20 Watts	Nos.	35		
10	Providing & Fixing of LED Panel Light 8" Round 12 Watts	Nos.	8		

11	<p>Providing Laying Testing & Commissioning of following size multi/single core PVC/PVC Cable with all accessories Including Cable Bracket/Hanger/Termination accessories laid in suitable size PVC Pressure pipe or Cable Tray as shown on drawing & as per specification complete in all respect & ready for use work include provided all PVC Pipes MAKE: Pakistan cable, Pioneer Cables or Equivalent</p> <p>(a) 1x35 mm 4 Core PVC/PVC + 1x16 mm S/C PVC/ECC Rft 490</p> <p>(b) 1x70 mm 4 Core PVC/PVC + 1x16 mm S/C PVC/ECC Rft 240</p> <p>Supply, Installation, testing & commissioning of following Distribution Boards as shown on drawing made with 14 SWG sheet steel housing including all installation accessories such as Rawal bolt etc. Complete in all respects. Note: (Refer Single Line Diagram)</p> <p>1) All the DB should be front accessible and maintainable. 2) Cost of Lighting Control Relays & Power Supplies should be Included in Distribution Boards. 3) The transportation and placement of DBs upto dedicated location is also included in the work scope, complete in all respects including leveling, grouting etc. 4) Laser engraved tags required as mention in SLDs</p> <p>11</p> <p>5) Space for circuit tagging required with permanent installation on protective sheet via rivets 6) 20% space required in DB for future provision 7) Tin plated Imported Cu bus bar with heat shrink color coded sleeves to be used. 8) Hindged protective metallic door required with knob/handle. 9) Braided Door earth required. 10) Lockable handle required for main door. 11) As-built drawing pocket. 12) Cable hanging arrangement. Minimum One Year Warranty Required from date of successful commissioning on site.</p> <p>(a) S.M.D.B Panel Nos. 1</p> <p>(i) 01x400 Amps MCCB Adj Breaker (ii) 01x250 Amps MCCB Adj Breaker (iii) 01x160 Amps MCCB Adj Breaker</p> <p>(b) D.B (Panels) Nos. 4</p> <p>(i) 1-250 Amp 25K MCCB Breaker (ii) 1-160 Amp 25K MCCB Breaker (iii) 1-32 Amp SP Breaker (iv) 1-63 Amp 3 Pole Breaker (v) 1-32 Amp 2 Pole Breaker</p>				
12	<p>Supply and installation of following sizes 14 SWG, G.I sheet (80 micron coating), perforated cable trays, including joints, bends, mounting brackets/hangers (at not more than 4 ft. spacing) including Hilti make Anchor Bolts (Minimum M12) and all fixing accessories, as required for ensuring smooth horizontal/vertical cable tray arrangements, complete in all respects and as approved by the Engineer in charge:</p> <p>(a) 100 mm x 200 mm Rft 200</p>				
SUB TOTAL FOR ELECTRICAL WORK CARRIED TO SUMMARY					

1	<p>(iv) VOICE & DATA WORK (Essential items)</p> <p>Supply, Installation, testing and commissioning of following items for voice and data communication system including all material, labor, tools, accessories etc. Complete in all respects. Quantities for cables shown in BOQ are estimated and taken from drawings. Contractor is advised to take measurement at site before commencement of works. Different colors of voice and data cables shall be used. (Selected Series for Face plates is Clipsal C- Vivace or equivalent) or as per directives of Engineer In-charge.</p> <p>Duplex Face plate with 1 No. CAT-6 RJ-45 I/O for Data & 1 No. CAT-6 RJ-45 I/O for Voice white / off white finish, complete with shuttered click-ins, labels and all accessories including 16 SWG sheet steel back box. Complete in all respects. (3M, Schnider or Equivalent)</p>	Nos.	144		
2	<p>Supply and Wiring of CAT-6 UTP Cables for Voice communication system from Com Rack to each outlet in 25mm dia PVC Conduit as per drawings including termination and tagging at both ends. Complete in all respects. Different colors of cables shall be used for Voice (Coil =305 Rm.) (3M, Schnider or Equivalent)</p>	Nos.	44		
SUB TOTAL FOR VOICE & DATA WORK CARRIED TO SUMMARY					
1	<p>(v) FIRE DETECTION AND ADDRESSABLE FIRE ALARM SYSTEM</p> <p>Supply, installation, testing & commissioning of Addressable Fire Alarm System comprising of following equipment including P/L of control and power wiring, all accessories required for the completion of the system in all respects and as per directives of Engineer In-charge.</p> <p>SUPPLY AND INSTALLATION OF ADDRESSABLE NETWORKABLE FIRE ALARM 4 LOOP PANEL WITH LCD DISPLAY COMPLETE WITH EPS MASTER CTRLR INTL 240V IDNET2 250PT 4 LOOP MODULE 1 BAY BB/GDOOR/DRESS PNL PLAT SYSTEM WITHOUT DACT FACTORY BUILT-MAIN CONFIGURED POWER DISTRIBUTION MODULE 220V BOX TO BOX HARNESS KIT</p> <p>TCP/IP PHYS BRIDGE, CLASS B 2x NETWORK MEDIA CARD WIRED</p> <p>APPROVALS REQUIRED:UL, ULC listed & FM approved Country of Origin: USA</p>	No.	1		
2	<p>SUPPLY AND INSTALLATION OF INTELLIGENT ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR PROGRAMMABLE SENSITIVITY RANGE 0.2% TO 3.7% / FT OBSCURATION ALONG WITH STANDARD BASE WITH OUTPUT FOR REMOTE LED</p> <p>APPROVALS REQUIRED: UL, ULC listed & FM approved Country of Origin: USA</p>	No.	90		
3	<p>SUPPLY AND INSTALLATION OF DOUBLE ACTION PUSH ADDRESSABLE PULL STATION COMPLETE WITH BACKBOX</p> <p>APPROVALS REQUIRED:UL, ULC listed & FM approved Simplex, TYCO fire protection products, Johnson controls Country of Origin: USA</p>	No.	7		

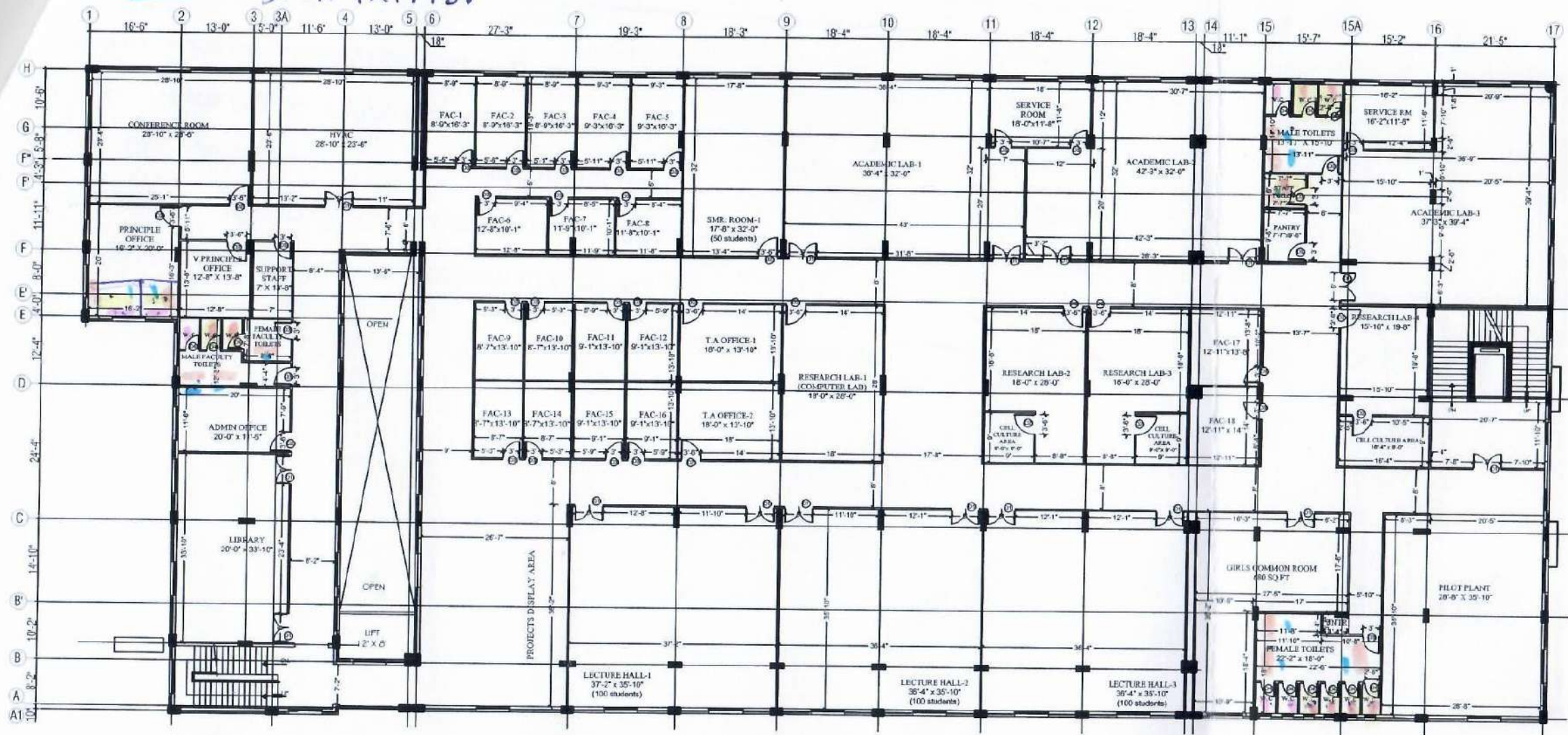
4	SUPPLY AND INSTALLATION OF INTELLIGENT ADDRESSABLE HORN CUM MULTI-CANDELA STROBE UNIT, CUSTOMIZATION OF INTENSITY SELECTION FROM 15CD TO 185CD OF STROBE WITH SELF TEST DIAGNOSTIC FEATURE WHICH IS ABLE TO GENERATE NAC PASS / FAIL REPORT. APPROVALS REQUIRED: UL, ULC listed & FM approved Country of Origin: USA	No.	7		
5	SUPPLY, INSTALLATION OF DUAL PORT, BI-DIRECTIONAL COMMUNICATIONS FAULT ISOLATOR FOR DETECTOR LOOP CIRCUIT. APPROVALS REQUIRED: UL, ULC listed & FM approved Country of Origin: USA	No.	2		
6	Programming, testing and commissioning of the complete integrated fire detection and fire alarm system as per client's requirements permissible for the FACP with training sessions of maintenance personnel's.	Job	1		
SUB TOTAL FOR FIRE ALARM SYSTEM WORK CARRIED TO SUMMARY					
(vi) CCTV SYSTEM					
1	IPC-HDBW2431E-S-S2 4MP Lite IR Fixed-focal Dome Network Camera. 4MP, 1/3" CMOS image sensor, low illuminance, high image definition Outputs 4MP (2560 × 1440)@25/30 fps, max. supports 4MP (2688 1520) @ 20 fps H.265 codec, high compression rate, ultra-low bit rate Built-in IR LED, max IR distance: 30 m ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes Intelligent detection: Intrusion, tripwire Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection Supports max. 256 GB Micro SD card 12V DC/PoE power supply Providing and Installation DH-IPC-HDW2431T-AS-S2 4MP Lite IR Fixed-focal Eyeball Network Camera 4MP, 1/3" CMOS image sensor, low illuminance, high image definition, Outputs 4MP (2560 × 1440)@25/30 fps, Max. supports 4MP, (2688 × 1520) @ 20 fps, H.265 coding, high compression ratio, low bit rate, Built-in IR LED, max IR distance: 30 m, ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments, Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes, Intelligent detection: Intrusion, tripwire, Abnormality detection: Motion detection, video tampering, no SD card,SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection, Max. 256 GB SD card and built-in Mic, 12V DC/PoE power supply, IP67 protection (Type Bullet)	Nos.	60		
2		Nos.	3		

3	DHI-NVR5432-4KS2 Smart H.265+/H.265/Smart H.264+/H.264/MJPEG Max 320Mbps Incoming Bandwidth Up to 12MP Resolution for Preview and Playback 2HDMI/2VGA simultaneous video output 4 SATA III Ports, Up to 10 TB capacity for each HDD	Nos.	2		
4	providing and installation of surveillance SATA Hard drive (4TB)	Nos.	8		
5	Providing and Installation Cisco SG350-28P-K9 Giga bit managed ports 6 10/100/1000 ports (24 PoE ports with power budget), 2 SFP slots, 2 combo mini-GBIC	Nos.	4		
6	Providing and Installation CAT-6, 24 port Patch Panel equipped with RJ-45 I/Os for Data and Voice Communication System including all accessories. Complete in all respects.	Nos.	4		
7	Front Cable Organizer for Data Voice patch panels / wiring blocks with dressing for incoming cable management	Nos.	4		
8	Providing and fixing CAT-6, factory certified Patch Cords 1 meter RJ-45 connectors at both ends for Data Communication.	Nos.	242		
9	P/F power supply box, complete in all respects as per directives of Engineer In-charge.	Nos.	55		
10	Supply and Wiring of CAT-6 UTP Cables for CCTV system in 25mm dia PVC Conduit as per drawings including termination and tagging at both ends. Complete in all respects. Different colors of cables shall be used for Voice (Coil =305 Rm.)	Nos.	14		
SUB TOTAL FOR CCTV WORK CARRIED TO SUMMARY					

TENDER DRAWINGS

Plumbing work.

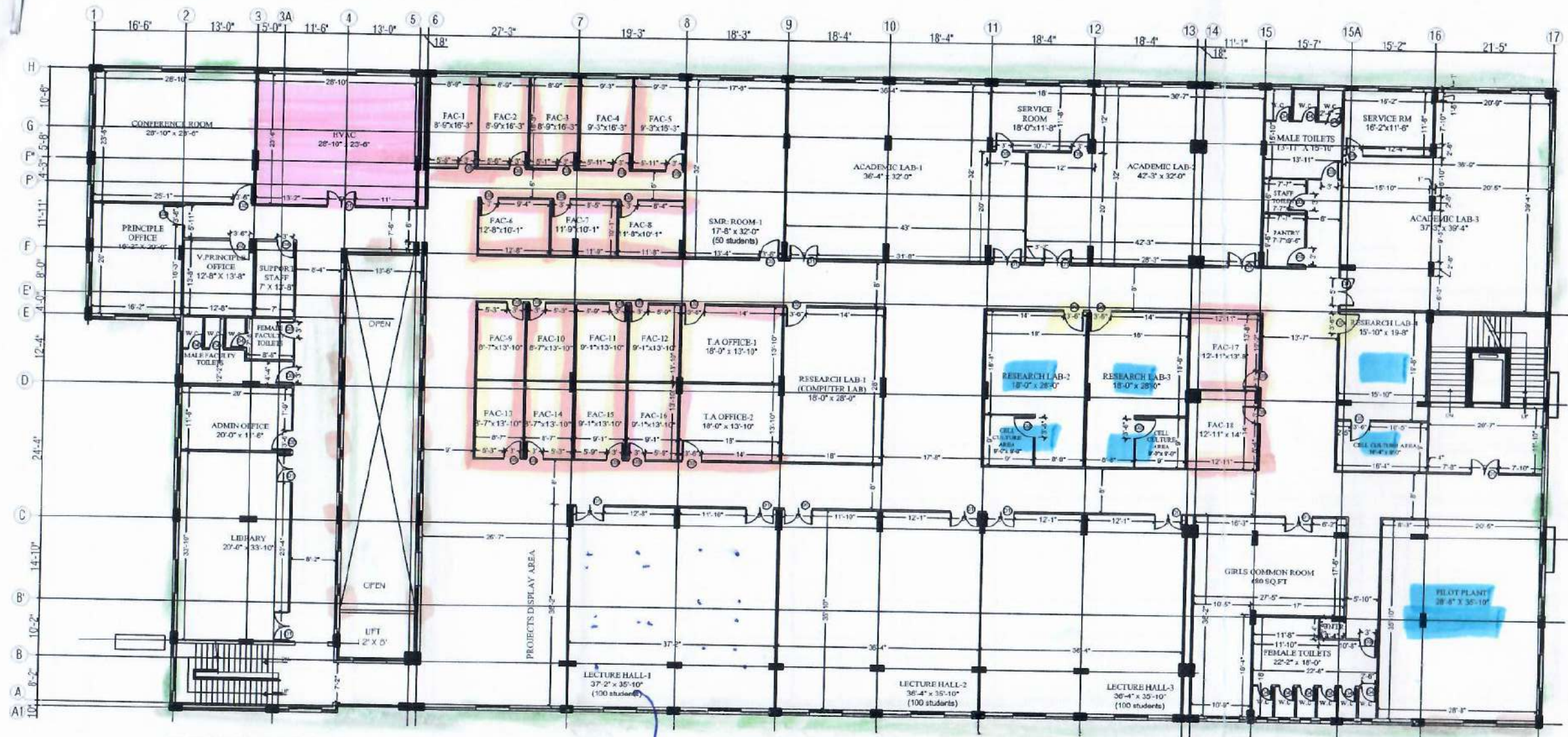
- English Commode + All accessories
- Muslim Shower
- Wash basin 24" x 18" including all etc.
- Glass Mirror



THIRD FLOOR PLAN (SEROBIOLOGY BUILDING)
COVERED AREA- 27513 SQ.FT

- Flooring & Wall dado.
- Aluminum Windows & Ventilators
- M.S door in 2mm thickness.
- Window blinds

- Epoxy flooring & Coating gate
- Frosted Paper



THIRD FLOOR PLAN (SEROBIOLOGY BUILDING)
COVERED AREA- 27513 SQ.FT

9 x NOS.