DOW UNIVERSITY OF HEALTH SCIENCES

BIDDING DOCUMENT

Single Stage – One Envelope Procedure

As per Rule 46 (1) of SPPRA, 2010 (Amended up to date)

NIT No. DUHS/W&S/2026/1915, Dated 09th October, 2026

NAME OF WORK:

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

(REF NO: DUHS/W&S/NIT/210)

Estimated Cost: Rs. 499.410 million

Bid Security: Rs. 15 Million

Tender Cost: Rs._____/-

Issue to M/s._____
_____
Dated: _____

P.O. No._____
Amount_____
Bank_____

Signature and stamp of issuing Authority:

TABLE OF CONTENTS

CONTENTS		Page No.
INVITATION FOR BIDS		
NOTICE INVITING TENDER (NIT)		**4**
INSTRUCTIONS TO BIDDERS		
A. ELIGIBILITY QUALIFICATION CRITERIA (MANDATORY REQUIREMENT):		**6**
A. General		
IB.1	Scope of Bid	**7**
IB.2	Source of Funds	**7**
IB.3	Eligible Bidders	**7**
IB.4	One Bid Per Bidder	**8**
IB.5	Cost of Bidding	**8**
IB.6	Site Visit	**8**
B. Bidding Documents		
IB.7	Contents of Bidding Documents	**9**
IB.8	Clarification of Bidding Documents	**9**
IB.9	Amendment of Bidding Documents	**9**
C. Preparation of Bids		
IB.10.	Language of Bid	**10**
IB.11	Documents Accompanying the Bid	**10**
IB.12	Bid Prices	**10**
IB.13	Currencies of Bid and Payment	**11**
IB.14	Bid Validity	**11**
IB.15	Bid Security	**11**
IB.16	Alternate Proposals by Bidder	**12**
IB.17	Pre-Bid Meeting	**12**
IB.18	Format and Signing of Bid	**13**
D. Submission of Bids		
IB.19	submitted online on SPPRA (EPADS)	**13**
IB.20	Deadline for Submission of Bids	**13**
IB.21	Late Bids	**14**
IB.22	Modification, Substitution and Withdrawal of Bids	**14**

E. Bid Opening and Evaluation

IB.23 Bid Opening **14**
IB.24 Process to be Confidential **14**
IB.25 Clarification of Bids **15**
IB.26 Examination of Bids and Determination of Responsiveness **15**
IB.27 Correction of Errors **16**
IB.28 Financial Evaluation and Comparison of Bids **16**

F. Award of Contract

IB.29 Award **17**
IB.30 Procuring Agency Right to Accept any Bid and to Reject any or all Bids **18**
IB.31 Notification of Award **18**
IB.32 Performance Security **18**
IB.33 Signing of Contract Agreement **19**
IB.34 General Performance of the Bidders **19**
IB.35 Integrity Pact **19**
IB.36 Instructions Not Part of Contract **19**
IB.37 Arbitration **19**

BIDDING DATA (BID DATA SHEET) **21-22**

FORM OF BID AND APPENDICES TO BID **23**

FORM OF BID

Appendix-A to Bid : Special Stipulations **26**
Appendix-B to Bid : Foreign Currency Requirements **27**
Appendix-C to Bid : Price Adjustment (Under Clause 70) **28-29**
Appendix-D to Bid : Bill of Quantities **30-55**
Appendix-E to Bid : Proposed Construction Schedule **56**
Appendix-F to Bid : Method of Performing the Work **57**
Appendix-G to Bid : List of Major Equipment – Related Items **58-59**
Appendix-H to Bid : Construction Camp and Housing Facilities **60**
Appendix-I to Bid : List of Subcontractors **61**
Appendix-J to Bid : Estimated Progress Payments **62**
Appendix-K to Bid : Organization Chart of the Supervisory Staff and Labour **63**
Appendix-L to Bid : Integrity Pact **64**

FORMS

BID SECURITY **66-67**
PERFORMANCE SECURITY **68-69**
CONTRACT AGREEMENT **70-71**
MOBILIZATION ADVANCE GUARANTEE **72-73**
INDENTURE BOND FOR SECURED ADVANCE **74-76**
PART-I: GENERAL CONDITIONS OF CONTRACT &
PART-II: SPECIAL CONDITIONS OF CONTRACT **77-97**
LIST OF APPROVED MANUFACTURERS **98**
DRAWINGS **99-157**

NOTICE INVITING TENDER (NIT)

DOW UNIVERSITY OF HEALTH SCIENCES

NIT No. DUHS/W&S/2026/1915 **Dated: 09 October, 2026**

NOTICE INVITING TENDER (NIT)

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:	NAME OF TENDER	METHOD OF PROCUREMENT
1.	**CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI (REF. NO. DUHS/W&S-NIT/210)**	**Single Stage – One Envelope Procedure As per Rule 46 (1) of SPPRA, 2010 (Amended up to date)**
2.	**SUPPLY, FIXING, INSTALLATION & COMMISSIONING OF 450KW GRID TIED SOLAR SYSTEM AT WAREHOUSE, OJHA CAMPUS, DUHS KARACHI. (REF. NO. DUHS/W&S-NIT/211)**	
3.	**SUPPLY, FIXING, INSTALLATION & COMMISSIONING OF 500 KW GRID TIED SOLAR SYSTEM AT SEMINAR-HALL, OJHA CAMPUS, DUHS KARACHI. (REF. NO. DUHS/W&S-NIT/212)**	

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

The electronics bids must be submitted using EPADS before closing time 31-10-2026 at 10:00 Hrs. Manual bids, shall not be accepted. Electronic Bids will be opened on 31-10-2026 at 11:00 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. 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

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INSTRUCTIONS
TO
BIDDERS

A. ELIGIBILITY QUALIFICATION CRITERIA (MANDATORY REQUIREMENT):

The bidder who meets the following mandatory requirements would be declared technically qualified for further financial evaluation as per the evaluation criteria specified in this bidding document. Submission of verifiable documentary evidence against each requirement is compulsory, noncompliance will lead to disqualification. Bidder shall be bound to produce the original documents for verification at the request of DUHS. If the bidder fails to produce the original documents within the prescribed time schedule their bid will be rejected.

S. No.	Mandatory Requirements
1	Tender Fee: Original to be submitted at DUHS before tender opening. A scanned copy must be attached in the Proposal.
2	Bid Security: Original to be submitted at DUHS before tender opening. A scanned copy must be attached in the Proposal.
3	Valid Registration Certificate up to June 2027 and onwards with Pakistan Engineering Councils in relevant category and specialized codes as mentioned against each work.
4	Valid PEC license in Category C-3 & above, along with the fields of specialization codes: CE09, CE10, EE01, EE02, EE04, EE07, ME02
5	At least one similar nature i.e. Building work having minimum cost of **80%** of the estimate cost of the work or at least two similar natures 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.
6	Bio data of Engineering and Technical staff working with the firm as required; The Bidder shall submit documentary evidence of the qualifications, professional registration, and relevant experience of the proposed personnel. Project Engineer (Civil); Graduate Engineer registered with PEC-Experience 10 years (minimum) Site Engineer -(Civil); Graduate Engineer registered with PEC-Experience 5 years (minimum) Material Engineer; B Sc. Geology Experience 3 years (minimum) Quantity Surveyor; Diploma of Associate Engineer/ Certificate Course Experience 2 years (minimum) Surveyor; Diploma of Associate Engineer/ Certificate Course Experience 2 years (minimum)
7	Gross Average Annual Turnover in the last three (03) financial years should not be less than **80%** of the estimated cost of the scheme/project supported by Income Tax Returns (ITR – FBR).
8	Bank turnover certificate of last 3 years should not be less than **80%** of the estimated cost of the project or Available credit line100 million (through Bank letter).
9	The Bidder shall provide a list of the following machinery and equipment available for execution of the works, along with documentary evidence confirming ownership or availability on rental/hire basis, as applicable: I. Excavator II. Total Station (Surveying Equipment) III. Dewatering Pump IV. Tractor V. Toyota Hilux / Pickup VI. Concrete Vibrator VII. Hydraulic Crane VIII. Generator – Minimum 20 kVA IX. Shovel / Loader X. Transit Mixer XI. Concrete Batching Plant XII. Formwork – Folding Steel Plates / Marine Plywood – Minimum 45,000 sq. ft.
10	Registration with Income Tax Department (NTN certificates) with active status Federal Board of Revenue.
11	Valid Registration Certificate of Sindh Revenue Board Government of Sindh (SRB) certificate (with Active Status).
12	Valid NTN / Income Tax Registration Certificate with online verification showing "Active Taxpayer" status (FBR).
13	Valid Electrical License must be provided.
14	Undertaking on stamp paper (duly attested by Notary Public / Oath Commissioner) that the firm is not involved in any litigation, Department rift, in the Government Department.
15	Affidavit (duly attested by Notary Public / Oath Commissioner) that firm has not been blacklisted by any Local, Provincial & Federal Government.
16	Bidder must have 15% tender bidding amount should be shown in bank's Closing Balance at least seven working days before submission date.
17	Complete Bidding Document, duly signed and stamped on its each/every page as acceptance of all terms & conditions.

B. GENERAL

IB.1 Scope of Bid

1.1 Procuring agency as defined in the bidding data hereinafter called "the procuring agency" wishes to receive bids for the construction and completion of works as described in these bidding documents and summarized in the bidding data hereinafter referred to as the "Works".

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 Procuring agency has received funds from the source (University Development Funds of **Dow University Health Sciences** in **PKR** currency towards the cost of the project /scheme specified in the bidding data, and it is intended that part of the proceeds of this funds 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 interested bidders who are eligible under provisions of Sindh Public Procurement Rules as mentioned below and the criteria given in the Notice Inviting Tender (NIT)/ Bidding Document.

Firms and individuals, national or international, may be allowed to bid for any project where international competitive bidding is feasible. Any conditions for participation shall be limited to those that are essential to ensure the bidder's capability to fulfill the contract in question.

Bidders may be excluded if;

(i) as a matter of law or official regulations, commercial relations are prohibited with the bidder's country by the federal government in case of ICB, or

(ii) a firm is blacklisted/ debarred by the procuring agency and the matter has been reported to the Authority, subject to Rule 30 of Sindh Public Procurement Rules 2010.

a. Government-owned enterprises or institutions may participate only if they can establish that they are;

(a) legally and financially autonomous, and

(b) operate under commercial law.

Provided that where government-owned universities or research centers in the country are of a unique and exceptional nature, and their participation is critical to project implementation, they may be allowed to participate; and

Bidders shall include all those contractors who are registered or incorporated in Pakistan, irrespective of the nationality of their owners and professional staff, or

c. Bidders are:-

registered with Pakistan Engineering Council in particular category and discipline,

registered with relevant tax authorities (income/sales tax, SRB, wherever applicable)

IB.4 One Bid Per Bidder
(JOINT VENTURE NOT APPLICABLE)

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 procuring agency will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process

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IB.6 Site Visit

6.1 The bidders are advised to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for construction of the works. All cost in this respect shall be at the bidder's own expense.

6.2 The bidders and any of their personnel or agents will be granted permission by the procuring agency to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the bidders, their personnel and agents, will release and indemnify the procuring agency, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.

C. BIDDING DOCUMENTS

IB.7 Contents of Bidding Documents (SSP RULE 21)

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.

a. Instructions to Bidders.
b. Bidding Data.
c. General Conditions of Contract, Part-I (GCC).
d. Special Conditions of Contract, Part-II (SCC)
e. Specifications.
f. Form of Bid and Appendices to Bid.
g. Bill of Quantities (Appendix-D to Bid).
h. Form of Bid Security.
i. Form of Contract Agreement.
j. Forms of Performance Security, Mobilization Advance Guarantee, Integrity Pact and Indenture bond for secured advance.
k. Material make/brand
l. 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 BD will be rejected.

IB.8 Clarification of Bidding Documents (SSP RULE 23(1)):

Any interested bidder requiring any clarification(s) in respect of the bidding documents may notify the procuring agency in writing at the procuring agency's address indicated in the Invitation for Bids/NIT. Procuring agency will respond to any request for clarification provided they are received at least five calendar days prior to the date of opening of bid.

Provided that any clarification in response to query by any bidder; shall be communicated to all parties who have obtained bidding documents.

IB.9 Addendum/Modification of Bidding Documents:

9.1 At any time prior to the deadline for submission of E-bids, the procuring agency may, for any reason, whether at his own initiative or in response to a clarification requested by a interested 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 IB 7.1 hereof and shall be communicated in writing to all bidders. Interested bidders shall acknowledge receipt of each addendum in writing to the procuring agency.

9.3 To afford bidders reasonable time in which to take an addendum into account in preparing their bids, the procuring agency may extend the deadline for submission of bids in accordance with IB.20

D. 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 procuring agency shall be in the language stipulated in the bidding data and Special Conditions of the 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 authorization on the letterhead of the bidding firm, 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 following two years, including the effect of known commitments;
   (iii) Work commitments since prequalification;
   (iv) Current litigation information; and
   (v) Availability of critical equipment.

   And

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 such as mobilization programme etc.;

11.2 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 sub- clause IB 1.2 hereof.

IB.12 Bid Prices

12.1 Unless stated otherwise in the bidding documents, the contract shall be for the whole of the works as described in IB 1.1 hereof, based on the unit rates or prices submitted by the bidder or percentage quoted above or below on the rates of Composite Schedule of Rates (CSR), as the case may be.

12.2 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 into by a bidder will not be paid for by the procuring agency when executed and shall be deemed to be covered by rates and prices for other items in the Bill of Quantities. In case of Composite Schedule of Rates, if the bidder fails to mention the percentage above or below, it shall be deemed to be at par with the rates of Composite Schedule of Rates.

12.3 The bid price submitted by the contractor shall include all rates and prices including the taxes. All duties, taxes and other levies payable by the contractor under the contract, or for any other cause during the currency of the execution of the work or otherwise specified in the contract as on the date seven days prior to the deadline for submission of bids.

Additional / reduced duties, taxes and levies due to subsequent additions or changes in legislation shall be reimbursed / deducted as per Sub-Clause 13.7 of the General Conditions of Contract Part-I.

12.4 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 13.7 of GCC. 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. Adjustment in prices quoted by bidders shall be allowed as per Sub-Para 4(ii) of Section C of Instructions to bidders and bidding data.

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. A bidder expecting to incur expenditures in other currencies for inputs to the works supplied from outside the procuring agency's country (referred to as the "Foreign Currency Requirements") shall indicate the same in Appendix-B to Bid. The proportion of the bid price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in the bid.

13.2 The rates of exchange to be used by the bidder for currency conversion shall be the selling rates published and authorized by the State Bank of Pakistan prevailing on the date, 07 (seven) days prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of the contract.

IB.14 Bid Validity

14.1 Bids shall remain valid for the period stipulated in the bidding data from the date of opening of bid specified in clause IB.23.

14.2 In exceptional circumstances, prior to expiry of the original, the procuring agency may request the bidders to extend the period of validity for a specified additional period, which shall not be for more than one third of the original period of bid validity. The request and the responses thereto shall be made in writing. A bidder may refuse the request without the forfeiture of the bid security. In case a bidder agreed to the request, shall not be required or permitted to modify the bid, but will be required to extend the validity of the 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 the bid, a bid security in the amount stipulated in the bidding data in Pak Rupees or an equivalent amount in a freely convertible currency.

15.2 The bid security shall be at the option of the bidder, in the form of deposit at call, Pay order or a CD-R/Call at deposit issued by a Scheduled Bank in Pakistan or Bank guarantee by a Scheduled Bank in Pakistan in favour of the procuring agency, which should commensurate with the bid validity period. The CD-R/Call at deposit for bid security shall be acceptable in the manner as provided at Annexure BS-1

15.3 Any bid not accompanied by an acceptable bid security shall be rejected by the procuring agency as non-responsive.

15.4 Bid security shall be released to the unsuccessful bidders once the contract has been signed with the successful bidder or the validity period has expired.

15.5 The bid security of the successful bidder shall 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 IB 22.1;

b. if the bidder does not accept the correction of his bid price pursuant to sub-clause IB 27.2 hereof; or

c. In the case of successful bidder, if he fails within the specified time limit to:

- furnish the required Performance Security; or
- Sign the Contract Agreement.

IB.16 Alternate Proposals/Bids

16.1 Each bidder shall submit only one bid either by himself, or as a member of a joint venture, until and unless they have been requested or permitted for alternative bid, then he has to purchase separate bidding documents and alternate bid shall be treated as separate bid. **(JOINT VENTURE & ALTERNATE PROPOSALS / BIDS ARE NOT ALLOWED)**

IB.17 Pre-Bid Meeting

17.1 Procuring agency may, on his own motion or at the request of any bidder, hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the bidding documents. The date, time and venue of pre-bid meeting, if convened, shall be communicated to all bidders. All bidders or their authorized representatives shall be invited to attend such a pre-bid meeting at their own expense.

17.2 The bidders are requested to submit questions, if any, in writing so as to reach the Procuring agency not later than seven (7) days before the proposed pre-bid meeting.

17.3 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all bidders. Any modification of the bidding documents listed in sub- clause IB 7.1 hereof, which may become necessary as a result of the pre- bid meeting shall be made by the procuring agency exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.

-17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a bidder.

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.

18.3 Alteration is not to be made neither 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.

18.4 Each bidder shall prepare by filling out the forms without alterations and shall provide an original copy along with photocopies as per the requirement of the procuring agency specified in the bidding data. The original as well as copies of the document shall be clearly marked as "ORIGINAL" and „COPY", as the case may be. If there is any discrepancy between original and copy, then the original shall prevail.

18.5 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(s) duly authorized to sign on behalf of the bidder pursuant to sub- clause IB 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person(s) signing the bid.

18.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the procuring agency, or as are necessary to correct errors made by the bidder. Such corrections shall be initialed by the person(s) signing the bid.

18.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper postal 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.

18.8 Bidders should retain a copy of the bidding documents as their file copy

E. SUBMISSION OF E-BIDS

IB.19 The bids will be submitted online on SPPRA (EPADS) website as per NIT.

IB.20 Deadline for Submission of Bids

20.1 (a) All Bids must be **Online through EPADS** on website **https://eprocure.gov.pk/,**

(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 shall be entertained for refund of such expenses,

(c) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.

20.2 The Procuring Agency may, at its discretion, extend the deadline for submission of E-bids by issuing an amendment in accordance with IB 09. In such case, all rights and obligations of the procuring agency and the bidders shall remain the same as mentioned in the original deadline.

IB.21 Late Bids submission on EPADS

- Any bid received by the procuring agency after the deadline for submission of e-bids on EPADS shall not be accepted.

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 procuring agency prior to the deadline for submission of bids.

22.2 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with to sub - clauses IB 22.1 and IB 27.2.

22.3 Withdrawal of a bid during the interval between the deadlines 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.

F-BID OPENING AND EVALUATION.

IB.23 Bid Opening

23.1 Procuring agency will open the E-bids online through EPADS at https://eprocure.gov.pk/, 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 or their representatives who are in attendance shall sign an attendance sheet.

23.4 Procuring Agency shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the sub-clause IB.23.3.

IB.24 Process to be Confidential. (SPP Rule 53)

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 before the announcement of bid evaluation report in accordance with the requirements of Rule 45, which states that Procuring agencies shall announce the results of bid evaluation in the form of a report giving reasons for acceptance or rejection of bids. The report shall be hoisted on website of authority SPPRA EPADS and that of procuring agency if it website exists and intimated to all bidders at least seven (7) days prior to the award of contract. Any effort by a bidder to influence the procuring agency's processing of bids or award decisions may result in the rejection of such bidder's bid. Whereas, any bidder feeling aggrieved, may lodge a written complaint as per Rule 31; however mere fact of lodging a complaint shall not warrant suspension of the procurement process.

IB.25 Clarification of Bid (SPP Rule 43)

25.1 To assist in the examination, evaluation and comparison of bids, the procuring agency may, at its discretion, ask any bidder for clarification of the 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 procuring agency 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 procuring agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.

26.2 Once found to be fulfilling the eligibility criteria, as mentioned in sub- clause 26.1, the bids of eligible bidders will be evaluated for technical responsiveness as per specification and criteria given in the bidding documents.

26.3 A bid will be considered technically responsive if it (i) has been properly signed; (ii) is accompanied by the required bid security; and (iii) 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 procuring agency'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.

26.4 If a bid has major deviations to the commercial requirements and technical specifications will be considered technically non-responsive. As a general rule, major deviations are those that if accepted, would not fulfill the purposes for which the bid is requested, or would prevent a fair comparison or affect the ranking of the bids that are compliant with the bidding documents.

(a) Major (material) Deviations include: -

- has been not properly signed;
- is not accompanied by the bid security of required amount and manner;
- stipulating price adjustment when fixed price bids were called for;
- failing to respond to specifications;
- failing to comply with Milestones/Critical dates provided in Bidding Documents;
- sub-contracting contrary to the Conditions of Contract specified in Bidding Documents;
- refusing to bear important responsibilities and liabilities allocated in the Bidding Documents, such as performance guarantees and insurance coverage;
- taking exception to critical provisions such as applicable law, taxes and duties and dispute resolution procedures;
- a material deviation or reservation is one:

- which affect in any substantial way the scope, quality or performance of the works;
- Adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

(b) Minor Deviations

Bids that offer deviations acceptable to the Procuring Agency and which can be assigned a monetary value may be considered substantially responsive at least as to the issue of fairness. This value would however be added as an adjustment for evaluation purposes only during the detailed evaluation process.

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

IB.27 Correction of Errors before Financial Evaluation

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

- where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
- 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 procuring agency 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.

27.2 The amount stated in the Form of Bid will be adjusted by the procuring agency in accordance with the above procedure for the correction of errors and with the concurrence of the bidders. The amount thus corrected 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 IB 15.6(b) hereof.

IB.28 Financial Evaluation and Comparison of Bids

28.1 The procuring agency 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 procuring agency will determine for each bid the evaluated bid price by adjusting the bid price as follows:

- making any correction for errors pursuant to clause IB 27;
- excluding provisional sums (if any), for contingencies in the Summary Bill of Quantities, but including competitively priced Day work; and
- 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 procuring agency's estimate of the cost of work to be performed under the contract, the procuring agency 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 procuring agency 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 procuring agency against financial loss in the event of default of the successful bidder under the contract.

28.5 Bidders may be excluded if involved in **"Corrupt and Fraudulent Practices"** means either one or any combination of the practices given below SPP Rule 2(q);

a. "**Coercive Practice**" means any impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;
b. "Collusive Practice" means any arrangement between two or more parties to the procurement process or contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, non-competitive levels for any wrongful gain;
c. "Corrupt Practice" means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
d. "Fraudulent Practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
e. "Obstructive Practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit rights provided for under the Rules.

28.6 Evaluation Report (SPP Rule 45)

After the completion of evaluation process, as described in clauses IB 27 and IB 28, the procuring agency shall announce the results of bid evaluation in the form of report (available on the website of the authority) giving reasons for acceptance and rejection of bid. The report shall be hoisted on website of the authority and that of procuring agencies if its website exists and intimated to all bidders at least seven (7) days prior to the award of contract.

G. AWARD OF CONTRACT

IB.29 Award (SPP Rule 49)

29.1 Subject to clauses IB 30 and IB 34 and provision of the rule: The procuring agency shall 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**,** but not necessarily the lowest submitted price, within the original or extended period of bid validity. Provided that such bidder has been determined to be eligible in accordance with the provisions of clause IB 03 and qualify pursuant to sub-clause IB 29.2.

29.2 Procuring agency, at any stage of the bid evaluation, having credible reasons for or having prima facie evidence of any deficiency(ies) in contractor's capacities, may require the contractor to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not for the said project.

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

IB.30 Procuring Agency's Right to reject all Bids or Annul/Cancellation the Bidding Process (SPP Rule 25)

Notwithstanding clause IB 29 and provision of the rule: (1) A procuring agency reserves may cancel the bidding process at any time prior to the acceptance of a bid or proposal; (2) The procuring agency shall incur no liability towards bidders solely by virtue of its invoking sub–rule (1); (3) Intimation of the cancellation of bidding process shall be given promptly to all bidders and bid security shall be returned along with such intimation; (4) The procuring agency shall, upon request by any of the bidders, communicate to such bidder, grounds for cancellation of the bidding process, but is not required to justify such grounds.

IB.31 Notification/Publication of the Award of Contract (SPP Rule 25).

31.1 Prior to expiry of the period of bid validity, including extension, prescribed by the procuring agency, the procuring agency shall notify the successful bidder in writing ("Letter of Acceptance") that his bid has been accepted. This letter shall mention the sum which the procuring agency will pay to 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, procuring agency may hold meetings to 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 procuring agency and the bidder till signing of the formal Contract Agreement.

31.4 Upon furnishing by the successful bidder of a Performance Security and signing of the contract, the procuring agency will promptly notify the name of the successful bidder to all bidders and return their bid securities accordingly.

31.5 Within seven days of the award of contract, procuring agency shall publish on the website of the Authority and on its own website, if such a website exists, the results of the bidding process, identify the bid through procurement identifying numbers, and the following information:

- Evaluation Report;
- Form of Contract and letter of Award;
- Bill of Quantities or Schedule of Requirement.

31.6 Debriefing (SPP Rule 51).

a. A bidder may ask the procuring agency for reasons for non-acceptance of his bid and may request for a debriefing meeting and procuring agency shall give him the reasons for such no acceptance, either in writing or by holding a debriefing meeting with such a bidder.

b. The requested bidder shall bear all the costs of attending such a debriefing.

IB.32 Performance Security (SPP Rule 39)

32.1 The successful bidder shall furnish to the procuring agency a Performance Security in the form of pay order or demand draft or Call deposit or Bank guarantee from Schedule Bank of Pakistan, and the amount stipulated in the bidding data and the Conditions of Contract within a period of 28 days after the receipt of Letter of Acceptance.

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.

32.3 Validity of performance security shall extend at least ninety (90) days beyond the date of completion of contract, or as mentioned in the bidding data to cover defects liability period or maintenance period subject to final acceptance by the procuring agency.

IB.33 Signing of Contract Agreement (SPP Rule 39)

33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the procuring agency 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 procuring agency and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the procuring agency.

33.3 A procurement contract shall come into force when the procuring agency requires signs contract, the date on which the signatures of both the procuring agency and the successful bidder are affixed to the written contract. Such affixing of signatures shall take place within the time prescribed in the bidding documents.

Provided that the procuring agency may reduce the maximum time limit for signing of contract, as and when required, and shall be mentioned in the bidding documents.

33.4 Stamp Duty.

The formal Agreement between the Procuring Agency and the successful bidder shall be duly stamped at rate of 0.35% of bid price (updated from time to time) stated in Letter of Acceptance

IB.34 General Performance of the Bidders

Procuring agency may in case of consistent poor performance of the contractor and his failure to remedy the underperforming contract may take such action as may be deemed appropriate under the circumstances of the case including the rescinding the contract and/or black listing of such contractor and debarring him from participation in future bidding process.

IB.35 Integrity Pact (SPP Rule 89)

The bidder shall sign and stamp the Integrity Pact provided at Appendix-L to the bidding documents for all Provincial/Local 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.

IB.37 Arbitration (SPP Rule 34)

Any dispute that is not amicably resolved shall be finally settled, unless otherwise specified in the Contract, under the Arbitration Act 1940 updated from time to time and would be held anywhere in the Province of Sindh at the discretion of procuring agency.

The successful bidder will be expected to complete the work within the time specified in Special Stipulations (Appendix-A)

IB.38 Time limit for clarification:

The written clarification should reach the addressee of the NIT on any working day but not later than 5 working days prior to last date of bid submission**.**

IB.39 The Technical Bid shall comprise the following:

- Form of Technical Bid
- Appendices to Bid except Appendix D and Appendix J.
- Bid Security in accordance with Clause 15;
- Alternative bids, if permissible, in accordance with Clause 16;
- Written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with Clause 18;
- Documentary evidence in accordance with Clause 3.2 establishing the Bidder's qualifications to perform the contract;
- The Bidder shall furnish, as part of the Technical Bid, a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Appendices, in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion.

IB.40 The Price Bid shall comprise the following:

- Form of Price Bid
- Completed Price Bill of Quantities (Appendix D), in accordance with Clause 11.1c and Clause 12,

IB.41 The Forms of Technical Bid and Price Bid, and all documents listed under Clause 11.1a and 11.1b, shall be prepared using the relevant form furnished in Appendix D to M. The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

IB.42 Stamp duty

The Contract will be executed on a non-judicial stamp paper of the value @ 0.35% of the contract value. The cost of the stamp duty shall be borne by the successful bidder.

[0.35% may vary depending upon the rules applicable at the time of signing the Contract]

BIDDING
DATA

BID DATA SHEET

The following specific data shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB) / Terms & Conditions. Whenever there is a conflict, the provisions herein shall prevail over those in ITB T&C.

1.	**Name of Procuring Agency:**	Dow University of Health Sciences, Karachi (DUHS)
2.	**Bidding Procedure:**	Single Stage –One Envelope Procedure
3.	**Name of Contract:**	Construction of Dow Institute of Medical Technology (DIMT)
4.	**Tender fee:**	Rs.5,000/- (Five Thousand Rupees Only) Non-Refundable in Shape of Pay Order / Demand Draft in favor of Dow University of Health Sciences, Karachi.
5.	**Submission of Tender fee & Bid Security Address:**	Dow University of Health Sciences (DMC Campus), Facilitator / Coordinator, Procurement Committee, Admin Block 5th Floor DMC Campus, Baba-e-Urdu Road near Civil Hospital Karachi. Phone No. 021-38771000 Extension 5820,5814, 5907
6.	**Language of the Bid:**	English
7.	**Currency of the Bid:**	The price quoted shall be in Pakistani Rupee on DDP Basis
8.	**Bid Prices:**	The price shall be fixed during the contract period.
9.	**Bid Security:**	The amount of bid security shall be amounting to **Rs.15,000,000/-** (Rupees Fifteen Million Only) in the form of a Pay order, Call Deposit, Bank Draft or a Bank Guarantee issued by a scheduled bank of Pakistan, in favor of the Dow University of Health Sciences, Karachi.
10.	**Bid Validity Period:**	90 days
11.	**Tender Purchasing date:**	As Per NIT
12.	**Deadline for bid submission:**	As Per NIT (Online through EPADs at https://eprocure.gov.pk/)
13.	**Date, Time and Place of Bid opening:**	As Per NIT (Online through EPADs at https://eprocure.gov.pk/)
14.	**Alternate Bid:**	Not Allowed
15.	**Joint Venture / Consortium Bid:**	Not Allowed
16.	**Period of Work Completion**	**180 days** from the date of receipt of Engineer's Notice to Commence.
17.	**Performance Security:**	The amount of performance security shall not be less than **5%** of the total contract value in the form of a Call Deposit, Bank Draft or a Bank Guarantee issued by a scheduled bank of Pakistan, in favour of Dow University of Health Sciences, Karachi.

FORM OF BID
AND
APPENDICES TO BID

TECHNICAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: [Name and address of Employer]

Dear Sir,

We, the undersigned, offer to provide Construction Services for "Tender Name" in accordance with your Proposal dated _____and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal upload on EPADS portal.

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

If contract negotiations are held during the period of validity of the Proposal, i.e., before the date indicated in Paragraph Reference 14.1 of the Contact / Bidding Data Sheet, we undertake to negotiate on the basis of the proposed bid. Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We undertake, if our Proposal is accepted, to initiate the construction services related to the assignment not later than the date indicated in Paragraph Reference 6 of the Special Stipulations Clause (Conditions of Contract).

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature [In full and initials]:
Name and Title of Signatory:
Name of Firm:
Address:

FORM OF TECHNICAL BID

Bid Reference No. _____

(Name of Contract/Work)

To:

_____
_____
_____

1. Having examined the bidding documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda Nos. _____ for the execution of the above-named work, we/I, the undersigned, offer to execute and complete the work 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/I 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/I submit herewith a bid security in the amount of Rupees _____ (Rs. _____) drawn in your favour or made payable to procuring agency and valid for a period of _____days beginning from the date, bid is opened.

4. We/I 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/I agree to abide by this bid for the period of _____ days from the date fixed for opening 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.

9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause 10 of Conditions of Contract for the due performance of the Contract.

`Appendix-A to Bid

SPECIAL STIPULATIONS
Clause
Conditions of Contract

1.	Engineer representing Consulting Firm hired by the procuring agency to issue variation in case of emergency.	3.1	Up to 2% of the contract price stated in the Letter of Acceptance.
2.	Amount of Bid Security	15.1	The amount of bid security shall be amounting to **Rs.15,000,000/-** (Rupees Fifteen Million Only) in the form of a Pay order, Call Deposit, Bank Draft or a Bank Guarantee issued by a scheduled bank of Pakistan, in favor of the Dow University of Health Sciences, Karachi.
3.	Amount of Performance Security	4.2	The amount of performance security shall not be less than **5%** of the total contract value in the form of a Call Deposit, Bank Draft or a Bank Guarantee issued by a scheduled bank of Pakistan, in favour of Dow University of Health Sciences, Karachi. Note: when billing start 5% Retention Money deducted from 1st bill and the submitted 5% Performance Security shall be returned to the Contractor after deduction from 1st bill.
	Amount of Security Deposit		The total amount of Security Deposit is **5%** which will be deducted from every Running bill
4.	Time for Furnishing Programme	8.3	Within 42 days from the date of receipt of Letter of Acceptance.
5.	Minimum amount of Third Party Insurance	18.3	Rs. 150,000/- per occurrence with number of occurrences unlimited.
6.	Time for Commencement	8.1	Within 14 days from the date of receipt of Engineer's Notice to Commence, this shall be issued within fourteen (14) days after signing of Contract Agreement.
7.	Time for Completion (works & sections)	8.2 & 10.2	**180** days from the date of receipt of Engineer's Notice to Commence.
8.	Amount of Liquidity Damages/ Delay Damages/Penalties	8.7	That will not be more than 10% of contract price.
9.	Defects Liability Period	11.1	**365** days from the effective date of Taking Over Certificate.
10.	Percentage of Retention Money	14.2	**5%** of the amount of Interim/Running Payment Certificate.
11.	Limit of Retention Money	14.2	**5%** of Contract Price stated in the Letter of Acceptance.
12.	Minimum amount of Interim/Running Payment Certificates	14.2	Rs. 7% of the accepted Contract Amount
13.	Time of Payment from delivery of Engineer's Interim/Running Payment Certificate to the Procuring Agency.	14.7	30 days in case of local currency or 42 days in case of foreign funded projects.
14.	Mobilization Advance.	14.2	10% of Contract Price stated in the Letter of Acceptance.

Appendix-B to Bid

FOREIGN CURRENCY REQUIREMENTS

The bidder may indicate herein below his requirements of foreign currency (if any), with reference to various inputs to the works.

Foreign Currency Requirement as percentage of the bid price excluding Provisional Sums _____%.

Table of Exchange Rates

Unit of Currency	**Equivalent in Pak. Rupees**
Australian Dollar	----------
Euro	----------
Japanese Yen	----------
U.K. Pound	----------
U.S. Dollars	----------

----------	----------

Appendix-C to Bid

PRICE ADJUSTMENT UNDER CLAUSE 13.8 OF CONDITIONS OF CONTRACT

A. Weight ages or coefficients are used for price adjustment.

The source of indices and the weightages or coefficients for use in the adjustment formula under Clause 13.8 shall be as follows:

Cost Element	Description	Weight ages	Applicable index
1	2	3	4
(i)	Fixed Portion	0.350	
(ii)	Local Labor		Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement – in bags		" " "
(iv)	Reinforcing Steel		" " "
(v)	High Speed Diesel (HSD)		" " "
(vi)	Bricks		" " "
(vii)	Bitumen		" " "
(viii)			
	Total	1.000	

"Not Applicable"

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 15 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, procuring agency 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.

B. When Escalation is allowed on the materials only.

Price adjustment on following items shall be allowed:

Cost Element	Description	Base price	Applicable index
1	2	3	4
(i)	Cement – in bags		Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(ii)	Reinforcing Steel		
(iii)	Block		
(iv)	HSD		
	Total Four items.		

Notes:

1. The base prices shall be those applying 7 days prior to the latest day for submission of bids. Current indices or prices shall be those applying last 28 days prior to the last day of the billing period.

2. Any fluctuation in the prices of materials other than those given above shall not be subject to adjustment of the Contract Price.

BILL OF QUANTITIES

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

GRAND SUMMARY OF COST

S.No	Description	Amount (Rs.)
A.	CIVIL WORKS (SCHEDULE RATE)	
B.	PLUMBING WORKS (SCHEDULE RATE)	
	Total Amount - Schedule Items	
C.	CIVIL WORKS (NON-SCHEDULE RATE)	
D.	PLUMBING WORKS (NON-SCHEDULE RATE)	
E.	ELECTRICAL WORKS (NON-SCHEDULE RATE)	
F.	VOICE & DATA COMMUNICATION SYSTEM (NON-SCHEDULE)	
G.	PUBLIC ADDRESS SYSTEM (NON-SCHEDULE)	
H.	CCTV SYSTEM (NON-SCHEDULE)	
I.	ADDRESSABLE FIRE ALARM SYSTEM (NON-SCHEDULE)	
J.	ACCESS CONTROL SYSTEM (NON-SCHEDULE)	
	Total Amount - Non-Schedule Items	
	Total Cost - Schedule & Non-Schedule Items	
	Add 5% SRB	
	TOTAL AMOUNT (Rs.)	

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

A. Civil Works (Schedule Rate)

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	Earth Works				
1	Excavation in foundation of Building Bridges and other structures including Dag belling dressing, refilling around structure with excavated earth Watering and ramming lead upto 5 ft. , lead upto one chain (30 meter) and lift upto 5 ft. (1.5 meter). (b) In ordinary soil. CSR-2024, Vol-III, Part-I, Ch-01, It # 18 (b), Pg-17	P.Cft	11.88	29,308.00	348,179.04
2	Cutting hard rock such as granite, ballast, hard limestone or sandstone etc. with chisels and hammers for small foundations. CSR-2024, Vol-III, Part-I, Ch-01, It # 19, Pg-17	P.Cft	118.60	14,435.00	1,711,991.00
3	Filling, watering and ramming earth under floor with new earth (Excavated from outside) lift upto 5 ft and lead upto 10 miles including cost of earth. CSR-2024, Vol-III, Part-I, Ch-01, It # 22, Pg-17	P.Cft	47.02	93,117.20	4,378,370.74
	Cement Concrete Works				
4	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering)				
	a) Ratio 1:4:8 (6" thick below foundation) CSR-2024, Vol-III, Part-I, Ch-04, It # 5(i), Pg-25	P.Cft	348.83	2,389.75	833,616.49
	b) Ratio 1:4:8 (4" thick sub floor) CSR-2024, Vol-III, Part-I, Ch-04, It # 5(i), Pg-25	P.Cft	348.83	7,169.25	2,500,849.48
	c) Ratio 1:3:6 (cast in situ) CSR-2024, Vol-III, Part-I, Ch-04, It # 5(h), Pg-25	P.Cft	388.67	1,778.70	691,327.33
	Reinforced Cement Concrete Works				
5	Placing, compacting, finishing and curing of concrete using ordinary Portland Cement/ Sulphate resistant cement / Slag cement as may be required: including screening, washing of aggregates and mixing of constituents using batching plant, transportation by transit mixer, pouring with pump in the required portion to achieve a cylindrical strength in the field as per ACI 214, with the specified consistency i/c the cost of shuttering,, compaction with compactor, excluding the cost of admixture, as approved and directed by the Engineer Incharge CSR-2024, Vol-III, Part-I, Ch-18, It # 98				
	CSR-2024, Vol-III, Part-I, Ch-18, It # 98, Pg-85 (iii) 3000 PSI				
	i) 3000 Psi (Foundation) Ch-18, It # 98 (iii), Pg-85	P.Cft	805.57	12,283.95	9,895,581.60
	ii) 3000 Psi (Plinth Beam) Ch-18, It # 98 (iii), Pg-85	P.Cft	805.57	3,866.10	3,114,414.18
	iii) 3000 Psi (1st, 2nd, and Roof beam, lintel, stair, tower, machine, OHWT beams) Ch-18, It # 98 (iii), Pg-85	P.Cft	805.57	27,737.85	22,344,779.82
	vi) 3000 Psi (6" thick slab; 1st, and 2nd floor slab, roof slab, stair tower, OHWT) Ch-18, It # 98 (iii), Pg-85	P.Cft	805.57	22,939.40	18,479,292.46
	CSR-2024, Vol-III, Part-I, Ch-18, It # 98, Pg-85 (iv) 4000 PSI				

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	xv) 4000 Psi (Columns upto Plinth) Ch-18, It # 98 (iv), Pg-85	P.Cft	900.31	1,187.55	1,069,163.14
	xvi) 4000 Psi (Shear/lift Walls) Ch-18, It # 98 (iv), Pg-85	P.Cft	900.31	2,970.65	2,674,502.30
	xvii) 4000 Psi (Super Columns ground, first and second floor, OHWT, tower, machine room, etc.) Ch-18, It # 98 (iv), Pg-85	P.Cft	900.31	7,239.75	6,518,019.32
6	Fabrication of deformed steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars.) a) Deformed Bars i) Grade-60 CSR-2024, Vol-III, Part-I, Ch-04, It # 8a (i), Pg-26	P.Cwt	18,934.02	5,316.00	100,653,250.32
	Masonry				
7	Damp proof course with (cement sand and shingle concrete 1:2 :4) including 2 coats of asphaltic mixture. (b) 2" thick CSR-2024, Vol-III, Part-I, Ch-04, It # 28 (b), Pg-28	P.Sft	126.97	957.00	121,510.29
8	Providing and laying 1 :3 : 6 Cement concrete solid Block masonry wall above 6" in thickness set in 1 : 6 cement mortar in G.F ground floor superstructure including raking out joints & curing etc., complete CSR-2024, Vol-III, Part-I, Ch-04, It # 23, Pg-27				
	a) 8" thick Wall	P.Cft	493.79	4,380.59	2,163,091.54
	Add extra Labour for Block Masonry CSR-2024, Vol-III, Part-I, Ch-04, It # 32, Pg-28				
	a) First Floor	P.Cft	11.88	2,190.30	26,020.70
	b) Second Floor (Stair Tower)	P.Cft	23.76	2,190.30	52,041.41
9	Providing and laying 1 : 3 : 6 cement concrete solid block masonry wall 6" and below in thickness set in 1: 6 cement mortar in ground floor Super Structure including raking out joints & currying etc., complete CSR-2024, Vol-III, Part-I, Ch-04, It # 24, Pg-27 a) 4" thick Wall	P.Cft	514.82	69,668.17	35,866,567.28
	Add extra Labour for Block Masonry CSR-2024, Vol-III, Part-I, Ch-04, It # 32, Pg-28				
	a) First Floor	P.Cft	11.88	34,834.08	413,828.93
	b) Second Floor	P.Cft	23.76	34,834.08	827,657.86
	THERMAL AND MOISTURE PROTECTION				
10	Providing and laying topping of cement concrete (1:2:4) including Surface finishing and dividing into panels: CSR-2024, Vol-III, Part-I, Ch-08, It # 16 (d), Pg-45 c) 2" thick	P.Sft	108.75	2,500.00	271,875.00
	d) 3" thick	P.Sft	145.00	5,000.00	725,000.00
	PLASTER WORKS				
11a	Cement plaster 1:4 upto 12' height CSR-2024, Vol-III, Part-I, Ch-09, It # 11 (b), Pg-52				
	a) 1/2" thick (Internal Plaster)	P.Sft	39.83	83,709.15	3,334,135.44
11b	Add extra 13% 32% & 51% above the labour rate of ground floor for 2nd 3rd, 4th and subsequently floors respectively according to 2,3,5,6,7,8,10,11,12,13, etc. of this Chapter 09. Pg-51 2nd floor/Roof/Stair Tower	P.Sft	3.75	66,967.32	251,127.45
11c	Extra labour rate for making cement plaster pattas/band around straight or carved openings and around the edges of roof slabs, the width not less than 6" with fine finishing as directed by Engineer Incharge	P.Rft	57.43	16,741.83	961,483.30

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	CSR-2024, Vol-III, Part-I, Ch-09, It # 35 (b), Pg-54				
11d	Aluminum wire gauge 144 mesh P. Square fixed to chowkats CSR-2024, Vol-III, Part-I, Ch-10, It # 64 (b), Pg-61	P.Sft	341.78	2,511.27	858,303.40
12a	Cement plaster 1:4 upto 12' height CSR-2024, Vol-III, Part-I, Ch-09, It # 11 (c), Pg-52 a) 3/4" thick (External Plaster)	P.Sft	53.82	32,326.55	1,739,814.92
12b	Add extra 13% 32% & 51% above the labour rate of ground floor for 2nd 3rd, 4th and subsequently floors respectively according to 2,3,5,6,7,8,10,11,12,13, etc. of this Chapter 09. Pg-51 2nd floor/Roof/Stair Tower	P.Sft	4.77	2,586.12	12,335.81
12c	Extra labour rate for making cement plaster pattas/band around straight or carved openings and around the edges of roof slabs, the width not less than 6" with fine finishing as directed by Engineer Incharge CSR-2024, Vol-III, Part-I, Ch-09, It # 35 (b), Pg-54	P.Rft	57.43	6,465.31	371,302.75
12d	Aluminum wire gauge 144 mesh P. Square fixed to chowkats CSR-2024, Vol-III, Part-I, Ch-10, It # 64 (b), Pg-61	P.Sft	341.78	969.80	331,457.05
	TILE FLOORING				
13a	Providing & Laying Full Body Porcelain Tile in Flooring or Facing of Approved Design Set in Gry Cement Motor 1:2 or of 3/4" Thickness I/C Washing & Joints with White Cement Slurry Using Colour Pigment for matching complete as per Specification CSR-2024, Vol-III, Part-I, Ch-8, It # 28 (vii/ix), Pg-46				
	(x) 24"x24"x5/16" (courtyard)	P.Sft	439.57	750.87	330,059.93
	(xi) 24"x48"x5/16"	P.Sft	651.48	28,506.28	18,571,272.66
13b	Laying floors of approved coloured glazed tiles 1/4" thick floor of approved color & size 24"x48" jointing in white cement and laid over 1:2 cement sand motor 3/4" thick including grouting with matching color and finishing. CSR-2024, Vol-III, Part-I, Ch-8, It # 25, Pg-46	P.Sft	325.40	2,832.39	921,658.63
13c	Laying floor of approved with glazed tiles 1/4" thick dado of approved color & size 24"x48 jointing in white cement and laid over 1:2 cement sand motor 3/4" thick including grouting with matching color and finishing. CSR-2024, Vol-III, Part-I, Ch-8, It # 24, Pg-45	P.Sft	389.36	6,141.42	2,391,223.68
	PAINT WORKS				
14	Preparing the surface and painting with matt finish I/c rubbing the surface with Bathy (silicon carbide rubbing brick) filling the voids with zinc /chalk / plaster of Paris mixture, applying first coat premix, making the surface smooth and then painting 3 coats with matt finish of approved make etc: complete. (new surface) CSR-2024, Vol-III, Part-I, Ch-09, It # 36 (a), Pg-54 (Internal Paint)	P.Sft	49.27	92,787.55	4,571,642.59
14a	2nd & subsequent coat CSR-2024, Vol-III, Part-I, Ch-09, It # 36 (b), Pg-54 (Internal Paint)	P.Sft	25.78	185,575.10	4,784,126.08
15	Preparing the surface and painting with weather coat I/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make CSR-2024, Vol-III, Part-I, Ch-09, It # 38 (a), Pg-54 (External Paint)	P.Sft	39.38	32,326.55	1,273,019.54
15a	2nd & subsequent coat CSR-2024, Vol-III, Part-I, Ch-09, It # 38 (b), Pg-54 (External Paint)	P.Sft	23.60	64,653.10	1,525,813.16
	ALUMINUM WORKS				

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
16	Supplying & fixing in position Aluminum channels framing for entrance doors consist of 6"x2" frame thick double leaf i/c made with 5mm thick tinted glass glazing (Belgium) and Alpha (Japan)locks I/c handles, stoppers etc. (a) Deluxe model (White) size 6-0"x9'-0" and 6'-0"x8'-0" CSR-2024, Vol-III, Part-I, Ch-18, It # 83, Pg-83	P.Sft	1,655.83	105.06	173,961.50
17	Supplying & fixing in position Aluminum channels framing 1.6 mm thick for sliding windows & ventilators of made with 5mm thick tinted glass glazing (Belgium) & Aluminum flyscreen I/c handles stoppers & locking arrangement etc. complete. (a) Deluxe model (White) CSR-2024, Vol-III, Part-I, Ch-18, It # 83, Pg-84	P.Sft	2,386.73	1,520.28	3,628,497.88
	Grand total civil work (schedule)				**261,712,166**
	Premium above/below				
	Grand total civil work (schedule)				

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

B. Plumbing Works (Schedule Rate)

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	Sanitary Fittings				
1	Providing and fixing European type white glazed earthen ware wash down W.C. pan complete with & including the cost of white / black plastic seat (Best quality) and lid with C.P. brass hinges best quality and buffers 3 gallons white glazed earthen ware low level flushing cistem with siphon fitting 1½ " dia white porcelain enameled flush bend dia and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign quality). (ICL, Porta, Durr or equivalent). CSR-2024, Vol-III, Part-III, Ch-01, It # 04, Pg-186	P.No	44,244.72	32.00	1,415,831.04
2	Providing and fixing 24"x18" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever bracket 6 inches built into wall, painted white in two coats after a primary coat of red lead paint, a pair of 1-1/2" dia chrome plated pillar taps, 1-1/2" rubber plug & chrome plated brass chain 1-1/4" dia malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls, plinth & floor for pipe connection & making good in cement concrete 1:2:4 (Foreign Equivalent) CSR-2024, Vol-III, Part-III, Ch-01, It # 10, Pg-187	P.No	24094.98	26.00	626469.48
3	Add extra for providing & fixing of earth ware pedestal white or colored Glazed (Foreign or equivalent) CSR-2024, Vol-III, Part-III, Ch-01, It # 11, Pg-187	P.No	3,675.07	10.00	36,750.70
	Grand Total Plumbing Work (Schedule)				**20,79,051.22**
	Premium above/below				
	Grand total Plumbing work (schedule)				

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

C. Civil Works (Non-Schedule Rate)

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
1	**Stone Soling** Providing and laying soling stones 4 inches to 6 inches under Footings, floors including packing with spawls and chips and consolidating compacting watering etc. complete. including levelling, consolidation etc, complete in all respect, as per drawings & specifications and to the entire satisfaction of the Site Engineer.	/Cft		13,831.00	
2	Parapet/ Wall Coping Providing and laying 2"x 2" Parapet wall coping in cement plaster finish etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer	/Rft		4,648.00	
3	**Anti termite Treatment** Provide and apply Anti termite Treatment using Agenda, Jaffer brother or equivalent approved in various stages eg. underground treatment, sub structure, super structure and including all wood works, Plinth covered area will be measured once for all operations. (Contractor provides 10 years guarantee for entire work)	/Sft		16,376.00	
4	**Carpet Tile Flooring** Providing, laying and fixing on floor of machine-made imported carpet tile of approved make with color and design etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer	/Sft		11,565.87	
5	**Wooden Laminated Flooring**				
	Providing, laying & fixing in line and level wooden laminated floor (heavy commercial) / of approved make i/c rubber underlay, wood edge detail as per drawing etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer	/Sft		765.29	
6	**Wooden Skirting**				
	Providing and fixing wooden skirting 1/2" thick of heavy commercial / Pak Carpet /other equivalent with nails / screws / glue / cutting, fitting and finishing etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer	/Rft		231.75	
7	WATER PROOFING				
(i)	Providing and fixing water swell bar BASF MASTERFLEX - 910 or Green Seal Bentonite or equivalent approved, at each construction joint including cartage, wastage etc. Complete in all respects and as directed by the Engineer.	/Rft		Rate only	
(ii)	Providing and applying waterproof coating Green Seal 201 or (PVC) BASF Masterseal (B.G-700) or equivalent as approved by the Consultant, applied below base slab & outer face of walls. Complete in all respect as per drawings and specifications and to the entire satisfaction of the Consultant / Engineer Incharge.	/Sft		Rate only	
8	**THERMAL AND MOISTURE PROTECTION** **Roofing Treatment**				
	Provide and lay roof treatment as per engineering standard, specifications, and shown in drawings (at any height / floor) and details shown consisting of following items etc., complete in all respect as per drawing, standard, specifications and direction of the Engineer.				
(i)	Providing and laying roofing treatment applying 2 coats of "Bitumen Emulsion Coating" and 1 coat after cc screed as per manufacture recommendation & specs etc., complete in all respect as per drawing, standard, specifications and direction of the Engineer.	/Sft		14,490.00	

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
(ii)	Providing and laying roofing screed consisting of 4" thick. C.C. 1:2:4 (1-cement, 2- fine aggregate, 4 - coarse aggregate) Screed Slope Ratio 2 %. including chamfering etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer.	/Cft		4,830.00	
(iii)	Providing and laying 1-1/2" thick heat insulation tile roofing with cement concrete bed (1:6) over 01 coat bitumen emulsion coating etc., complete in all respect as per drawing, standard, specifications and direction of the Engineer.	/Sft		14,490.00	
9	**Damproofing and Waterproofing**				
	Providing, applying and laying specified bitumen hycarb in 3 coats including primer coat on sunk / wet areas e.g Toilet, bath kitchen and balcony floors each coat to be applied at least 24 hours after application of the previous coat application of bituminous coat, should be commenced at least after 10 days of completion of curing period etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer. Ground, first and second floor	/Sft		2,358.70	
10	**Flush DOOR**				
	Providing, making and fixing door comprising of Oak wood frame 6" x 2" thick, with approved polish finish, fixed with required Nos. of hold fast minimum 3" wide x 1/4" thick (not less than 3" in length) properly fixed with frames, having 1 1/4" thick commercial ply solid core door shutter with Oak wood lipping 1 1/2" x 1/2" thick on shutter edges and oak ply veneering both side, including making U groove 3/16" thick shown on drawing, & 6mm plain glass with sand blasting as approved also fixing approved hardware's, hinges, tower bolts, locks, door closer etc. including applying clear lacquer polish finish complete as per details/ drawing and as directed by the engineer				
	Door Type DD1 - Size 5'-0" x 7'-0" (double leaf)	Nos		1.00	
	Door Type DD2 - Size 5'-0" x 8'-0" (double leaf)	Nos		32.00	
	Door Type D2 - Size 3'-6" x 8'-0" (Single leaf)	Nos		2.00	
	Door Type D3 - Size 3'-0" x 8'-0" (single leaf)	Nos		48.00	
11	**Granite on Stair**				
	Providing and laying 3/4" thick of pre-polished good quality Granite with approved nosing on staircase treads, landing & 1/2" thick riser of approved colors, V-joint between slabs, including jointing in colored/white cement, sand 1:1 including 1:4 cement screed for bedding with Dry bond (overall thickness as shown in the drawings) etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer				
(i)	Lift wall	/Sft		2,029.10	
(ii)	Entrance Verandah floor	/Sft		856.96	
12	Marble on Stair				
	Providing and laying 3/4" thick of pre-polished good quality Marble with approved nosing on staircase treads, landing & 1/2" thick riser of approved colors, including jointing in colored/white cement, sand 1:1 including 1:4 cement screed for bedding with Dry bond (overall thickness as shown in the drawings) etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer (Basic price shall be Rs. 650 per square feet)				
	Main & Emergency Staircase Tread	/Sft		687.01	
	Main & Emergency Staircase Riser	/Sft		344.02	
	Main & Emergency Staircase landing	/Sft		546.93	
13	**Marble Sill**				
	Providing and laying 3/4" thick of pre-polished good quality Marble with approved nosing on both sides for low parapet wall of void area of central courtyard of approved color, including jointing in colored/white cement etc, complete in all respect as per drawing, standard , specifications and direction of the Engineer (Basic price shall be Rs. 650 per square feet)				

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	Central courtyard Void Area (FF/SF/TF)	/Sft		275.01	
14	**Granite Vanity Top**				
	Providing and laying 3/4" thick good quality (pre-polished) granite vanity top having 3/4" half round bull nosing to be laid over 3/4" thick cement sand base (1:4) over concrete pre-cast slab, including the cost of granite cutting as per vanity size and shape, complete as per drawing and as directed by the Consultants. (Basic price shall be Rs. 1400 per square feet)				
	Vanity top	/Sft		329.60	
	Pantry top	/Sft		87.55	
15	**Gypsum Tile Ceiling**				
	Providing and fixing suspended ceiling 10mm thick with aluminum foil from (Elephant/DFB/Arish brand) Gypsum board tile sheet as per sample approved size 2' x 2' of equivalent in mm) moisture resistant false ceiling as shown on the drawing including aluminum metal framing suspension system with groove, attachment devices, hangers, edge moldings, trim clips and trimming any extra hangers as required, including making provision for light fixtures, A/C diffusers, smoke detectors with providing & applying three cat of matt enamel paint of approved make & color shade including one coat of primer coat, filling putty etc, complete in all respect as per drawing, standard , specifications and direction of the Engineer. Ground, first and second floor	/Sft		24,944.54	
16	**Gypsum board Ceiling**				
	Providing and fixing reflected ceiling 1/2" thick from (Elephant/DFB/Arish brand) Gypsum board sheet as per sample approved size 4'-0" x 8'-0" of equivalent in mm) false ceiling as shown on the drawing including aluminum metal framing suspension system, with groves, attachment devices, hangers, edge moldings, trim clips and trimming any extra hangers as required, including making provision for light fixtures, A/C diffusers, smoke detectors with providing & applying three coats of matt enamel paint of approved make & color shade including one coat of primer coat, filling putty etc, complete in all respect as per drawing, standard , specifications and direction of the Engineer Ground, first and second floor	/Sft		15,308.89	
17	**Fixed Glazing (Aluminum Framed)**				
	Providing and fixing black color anodized / powder coated premium quality aluminum fixed Glazing (using Luck / Prime Cable or equivalent approved manufacturers) comprising of Aluminum frame 1.5" x 3" (2mm) thick with 8mm thick clear glass with 175-micron safety Film (from Courtyard side and pasted before fixing of glass) as per design, with approved quality hardware's, etc. complete as per details/ drawing and as directed by the engineer				
	FG1 - Entrance Hall (GF)	/Sft		54.00	
	FG2 - Faculty Hall (GF/FF)	/Sft		655.00	
	FG3 - Meeting Room (FF)	/Sft		110.00	
18	**Flush Door - Bath Room Cubical**				
	Providing and fixing door with aluminum frame on both sides properly fixed in block wall, having commercial ply solid core door shutter with solid wood lapping 1 1/4" x 1/2" thick on shutter edges and 1/8" thick Formica both side, with approved quality hardware's, hinges, tower bolts, locks, door closer etc. complete as per details/ drawing and as directed by the engineer. Door Type D4 - Size 2'-6" x 7'-0" (single leaf)	Nos		30.00	
19	**M.S Railing for Staircase**				
	Providing, making and fixing of M.S. railing for Main and Emergency Staircases, fabricated from approved M.S. pipes, including ½" × ½" M.S. horizontal members (3 Nos.), 2" dia M.S. vertical posts fixed/embedded to RCC steps/beams at every third step with ¼" thick M.S. plates, M.S. bolts and	/Rft		455.26	

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	covers, and 2" dia M.S. pipe handrail securely fixed to the vertical posts, including all cutting, welding, grinding, fixing, accessories and approved paint finish, complete in all respects as per approved drawings, specifications, standards and directions of the Engineer.				
20	**MISCELLENEOUS**				
(i)	Looking Mirror				
	Providing and fixing 6mm thick imported looking mirror in toilet area, having 6mm thick lasani board backing and 1 1/2" x 1/2" Oak wood frame all around having lacquer polish finish, fixed on partition wall, etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer	/Sft		746.75	
(ii)	Windows Blinds				
	Providing and fixing windows blinds imported fixed on wall, etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer Ground, first and second floor	/Sft		1,545.00	
(iii)	CC Bench				
	Providing, making and fixing RCC bench etc same as garden front Director works & services, ojha campus office complete in all respect as per engineering standard and direction of the Engineer.	/No		15.00	
(iv)	Planter				
	Providing and making Planter all works consisting of baloo soil (sweet earth) grassing & plants etc., complete in all respect as per drawing, standard, specifications and direction of the Engineer.	/Sft		2,500.00	
(v)	Architectural Design and Detailed Drawings for Dow Institute of Medical Technology (DIMT), including complete plans, elevations, sections, architectural details, coordinated Plumbing, Electrical, ELV and HVAC drawings, and As-Built Drawings, complete in all respects.	Job		1.00	
	Grand Total (Civil Non-Schedule)				

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

D. Plumbing Works (Non-Schedule Rate)

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	Toilet Fixture, Fitting & Accessories				
1	Providing and Fixing kitchen sink approved make & size including all accessories such as sink cock stop cocks with checknuts, sink cock, CP flexible pipe, coupling bracket set etc. CP bottle trap and all joints to service and drains plugging and screwing as necessary to the structure, complete in all respect.				
	(a) Single Bowl 24" x 18".	Nos.		3.00	
2	Same as item number 2 but for laboratory sink				
	(a) 24"x18"	Nos.		9.00	
3	Providing and Fixing Asian water closet orrisa type with low down flushing cistern connecting & concealed 1" dia uPVC pipe with all accessories and fittings such as waste and traps, CP flexible pipe, tee stop cock with PVC rubber connector with check nuts, all joints to services and drains, plugging and screwing as necessary to the structure, complete in all respect.	Nos.			
4	Providing and Fixing wall hung type lavatory with pedestal approved make with all accessories such as pillar cock, tee stop cock with check nuts, CP flexible pipe, waste coupling bracket set, etc. CP bottle trap, and silicon sealant, all joints to service and drain, plugging and screwing as necessary to the structure, complete in all respect.	Nos.			
5	Toilet Accessories Providing and Fixing Bath accessories including fixing with Rawal plug and screw of approved quality complete in all respect.				
	Towel Rail	Nos.		26.00	
	Cloth Hook	Nos.		32.00	
	Soap Dish	Nos.			
	Toilet Paper Holder	Nos.		32.00	
	Double Bib Cock with Muslim Shower	Nos.		32.00	
	Soap Dispenser 1/2 liter.	Nos.		14.00	
	Bib Cock Long Neck	Nos.		3.00	
	Electric Hand Dryer	Nos.		14.00	
	Cold Water Supply System				
6	Polypropylene Piping For Water Supply Providing and Fixing, jointing & testing of POLYPROPLENE (PPR-C) pipes PN-20 manufactured on standards BS 5174 or DIN 8028, Approved make with all special fittings such as hanging system, sockets, tees, elbow, bends, reducers, plugs and union etc. supported on walls or buried in walls/floor or suspended from roof slab as per specifications including colour coding complete in all respects.System shall be tested with water up to 24 hours at 100 psi.				
	i) Dia. OD 25 mm	Rft		221.00	
	ii) Dia. OD 32 mm	Rft		923.00	
	iii) Dia. OD 40 mm	Rft		221.00	
	iv) Dia. OD 50 mm	Rft		78.00	
	v) Dia. OD 65 mm	Rft		26.00	
	vi) Dia. OD 75 mm	Rft		221.00	
	vii) Dia. OD 90 mm	Rft		39.00	
7	Providing and Fixing of full way gate valves of brass trim upto 3" (75mm) dia. With threaded ends and cast iron body				

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	bronze trim flanged ends for 4" dia. (100mm) and above KITZ make (Japan) or equivalent or similar for 125 psi together with all additional material required for a complete installation or approved by the Engineer.				
	1/2" dia.	Nos.			
	3/4" dia	Nos.			
	1" dia	Nos.		16.00	
	1-1/4" dia.	Nos.		20.00	
	1-1/2" dia.	Nos.		6.00	
	2" dia.	Nos.		2.00	
	2-1/2" dia	Nos.		2.00	
	3" dia	Nos.			
8	Same as item 2 but for Y-Strainer Valve				
	2-1/2" dia	Nos.		2.00	
	3" dia	Nos.			
9	Providing and Fixing hose bip with all asseceries complete in all respect.				
	Hose Bib 3/4" dia	Nos.		13.00	
	EXTERNAL WATER SUPPLY SYSTEM				
10	Providing and Fixing, ,jointing & testing of POLYPROPLENE (PPR-C) pipes PN-20 manufa-ctured on standards BS 5174 or DIN 8028, Approved make with all special fittings such as hanging system, sockets, tees, elbow, bends, reducers, plugs and union etc. supported on walls or burried in walls/floor or suspended from roof slab as per specifications including colour coding complete in all respects.System shall be tested with water up to 24 hours at 100 psi.				
i)	32mm dia	Rft		486.00	
ii)	40mm dia	Rft			
iii)	65mm dia.	Rft		312.00	
11	Providing and Fixing S.S square puddle plate 6" x 6"/ 12"x12" x 1/8" thick or dia of pipe with S. S pipe grade 304 for connect to ppr or upvc pipes of specified dia. Complete in all respect	Nos.		6.00	
12	Providing and Fixing bronze construction single pattern equilibrium type float valve (Imported make) best quality With screw type inlet stainless steel float rod and copper float complete as approved by the Engineer..				
i)	1" dia	Nos.		1.00	
13	Providing and Fixing CI manhole covers with frame for underground and over head water tank with rust proof enemal paint approved make complete in all respect.				
i)	24" x 24"	Nos.		4.00	
14	Providing .fixing ,testing and commissioning water transfer centrifugal pump having a capacity of 60 gpm against total dynamic head of 90 ft. with a motor of requisite horse power as per manufacturer recommendation including all accessories such as flange, pipes,gate valves priming valve 3/4" dia, non return valves, foot valves,Y Strainers,pressure gauges with syphon on delivery side of the pump/motor,electric panel,foundation and etc complete in all respect	Nos.		2.00	
15	Making arrangement water connection with water mains complete with cutting of road pavement obtaining all necessary permission from concerned authorities excavation back filling, compaction complete in all respect as necessary for making connection.	Nos.		1.00	
	SOIL, WASTE, VENT AND RWP SYSTEM				
16	Providing and Fixing in position uPVC pipes push fit type for soil, waste water & vent as Type 'B' as per BSS 5254 + BSS 4514 embedded in floor and wall or suspended from slab or clamped to wall including plugs, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) Making				

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	requisite number of holes in walls and floors and filling holes around the pipe with non-shrink grouting Matarial with bakker rod of approved make where required and making good the same as necessary to the structure labeling testing to 9'-0" water head complete in all respect.				
i)	1½" dia.	Rft.			
ii)	2" dia.	Rft.		220.00	
iii)	3" dia.	Rft.		1,010.00	
iv)	4" dia.	Rft.		1,020.00	
v)	6" dia.	Rft.			
17	Same as item No.1 For Rain Water Pipe Solvent Type				
i)	4" dia.	Rft.		320.00	
18	Providing and fixing uPVC cowl for vent pipe of approved make of the following dia. including all accessories complete in all respect.				
i)	2" dia.	Rft.			
ii)	3" dia.	Rft.		6.00	
iii)	4" dia.	Rft.		8.00	
19	Providing and Fixing approved make floor drain / multi floor trap / p-trap approved design as necessory with S.S. grating including requisite number of holes in wall plinth or floor for pipe connection and making good the same as necessary with non-shrink grout to the structure gasket, clamp, etc. complete in all respect.				
i)	6'x 6' x 4" dia.	Nos.		66.00	
20	Providing and Fixing S.S cleanout approved make (floor / ceiling type) with upvc threading type. cover making requisite number of holes in walls, plinth or floor for pipe connection and making good the same as necessary to the structure with non-shrink grout rubber gasket and clamp complete in all respect.				
i)	3" dia (Floor Type).	Nos.		29.00	
ii)	4" dia (Floor Type).	Nos.		17.00	
21	Providing andFixing roof drain of approved design with dome type or scuper type with requiste number of hole in wall, plinth, slab or floor for pipe connection and making good the same as necessary to the structure including gas kit and clamps. Complete in all respect.				
i)	4" dia (Scuper Type)	Nos.		6.00	
ii)	4' dia (Dome Type)	Nos.			
22	Providing and Fixing UPVC pipe class-B to keep the provision of inlet/outlet connections in Slab/Beam before concrete pouring complete in all respect				
i)	3" dia	Nos.		40.00	
ii)	6" dia	Nos.		150.00	
iii)	8" dia	Nos.			
	EXTERNAL SEWER & MANHOLES:				
23	Providing and Laying and jointing uPVC sewer pipe Class 'D' including excavation backfilling, compaction bedding, confirming to BSS 3505 in Trenches to correct alignment and grade, jointing, cutting pipes where necessary, finishing and testing complete as per drawing and specification complete in all respect.				
i)	8" dia	Rft.		443.00	
24	Providing and Making (6" thick blcok masonry with 1/2" thick puddlo plaster external & internal) square manhole complete in all respect including excavation, backfilling, compaction 6" thick M. I. Rungs, block masonary with ½" thick pudllo plaster benching, heavy duty manhole cover of Alpine make 24" x 24" complete as per drawing and specification including testing and cost of reinforcement complete in all respect.				
i)	24" x 24"	Nos.		12.00	

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
25	Providing and Fixing 4" dia. uPVC P-Trap make with 9" x 9" C.I. Frame and cover including gully trap chambers 4" thick block masonry with ½" thick pudllo plaster as per drawing and specification complete in all respect.	Nos.		7.00	
26	Making arrangement permanent sewer connection to exist sanitary sewer complete with cutting of road pavement obtaining all necessary permission from concerned authorities including excavation backfilling compaction, complete in all respect as necessary for making connection	Job		1.00	
	MISCELLANEOUS:				
27	Shop Drawing	Job		1.00	
	Grand Total (Plumbing Non-Schedule)				

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

E. Electrical Works (Non-Schedule Rate)

S. No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
1	PANELS & DISTRIBUTION BOARDS				
	MAIN & SUB MAIN DISTRIBUTION BOARDS				
a)	Supply, installation, testing and commissioning of following floor mounted Main / Sub Main Distribution Boards (MDB/SMDB) (Form-2), with incoming and outgoing circuit breakers and other components as per SLD with cable terminations, made with 16 SWG sheet steel metal housing powder coated with approved color (as per specifications), dust protected, vermin proof housing having all the necessary switching & protections, energy analyzer etc. including Pull Boxes and all mounting accessories etc., as per specifications and drawings, complete in all respect.				
i	MDB-1B-GF with 125 kVAR PFI PANEL	No.		1.00	
ii	SMDB-1B-1F	No.		1.00	
iii	SMDB-1B-2F	No.		1.00	
	DISTRIBUTION BOARDS (DB)				
b)	Supply, installation, testing and commissioning of following Wall/Flush/floor mounted Distribution Boards (DB), with incoming and outgoing circuit breakers and other components as per SLD with cable terminations, made with 16 SWG sheet steel metal housing powder coated with approved color (as per specifications), dust protected, vermin proof housing having all the necessary switching & protections, energy analyzer etc. including Pull Boxes and all mounting accessories etc., as per specifications and drawings, complete in all respect.				
i	DB-L-GF	No.		1.00	
ii	DB-P-GF	No.		1.00	
iii	DB-L-1F	No.		1.00	
iv	DB-P-1F	No.		1.00	
v	DB-L-2F	No.		1.00	
vi	DB-P-2F	No.		1.00	
vii	DB-IT	No.		1.00	
c)	Supply, installing, testing and commissioning of following Isolator in 16 SWG sheet steel enclosure with neutral and earth terminal strips, including all mounting accessories, back box etc. as per specifications and drawings, complete in all respect.				
i	630A, TPN Weatherproof type Isolator	No.		1.00	
ii	80A, TPN Weatherproof type Isolator	No.		3.00	
iii	40A, TPN Weatherproof type Isolator	No.		2.00	
iv	32A, SPN Weatherproof type Isolator	No.		1.00	
2	LOW VOLTAGE CABLES & WIRES				
	Supply, laying, termination, tagging, testing and commissioning of following size copper conductor multi core / single core, Cu/PVC, Cu/PVC/PVC, unarmoured, 600/1000V, 450/750V or 300/500V voltage grade copper cable in already laid PVC conduit / cable tray / trench including all accessories lugs, cable gland etc. as per drawings and specification, complete in all respect. **Note: Contractor is advised to confirm the cable running length before commencement of work and termination as per site requirements.**				
a)	4 Core, Cu/PVC/PVC Cable (600/1000V)				
i	4 Core, 150 Sq.mm Cu/PVC/PVC Cable	Rm.		45.00	
ii	4 Core, 25 Sq.mm Cu/PVC/PVC Cable	Rm.		25.00	
iii	4 Core, 16 Sq.mm Cu/PVC/PVC Cable	Rm.		55.00	

S. No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
iv	4 Core, 10 Sq.mm Cu/PVC/PVC Cable	Rm.		150.00	
b)	1 Core, Cu/PVC Cable (600/1000V)				
i	1 Core, 6 Sq.mm Cu/PVC Cable	Rm.		75.00	
c)	1 Core, Cu/PVC Cable as ECC (600/1000V)				
i	1 Core, 300 Sq.mm Cu/PVC Cable ECC	Rm.		1,392.00	
ii	1 Core, 70 Sq.mm Cu/PVC Cable ECC	Rm.		25.00	
iii	1 Core, 10 Sq.mm Cu/PVC Cable ECC	Rm.		150.00	
iv	1 Core, 6 Sq.mm Cu/PVC Cable ECC	Rm.		65.00	
3	CABLE CONTAINMENT				
a)	Supply and laying of following size PVC / uPVC Class-D / Flexible PVC Conduits including all accessories, as per drawings and specification etc., complete in all respect.				
i	25 mm dia PVC Conduit	Rm.		30.00	
ii	32 mm dia PVC Conduit	Rm.		65.00	
iii	38 mm dia PVC Conduit	Rm.		175.00	
iv	50 mm dia PVC Conduit	Rm.		20.00	
v	100 mm dia PVC Conduit	Rm.		35.00	
vi	38 mm dia uPVC Conduit (Class-D)	Rm.		5.00	
vii	50 mm dia uPVC Conduit (Class-D)	Rm.		10.00	
viii	2 x 50 mm dia uPVC Conduit (Class-D)	Rm.		25.00	
ix	100 mm dia uPVC Conduit (Class-D)	Rm.		10.00	
x	25 mm dia Flexible PVC Conduit	Rm.		50.00	
b)	Supply and installation of following Pull Boxes with all installation accessories, as per specifications, drawings and approved brands, complete in all respect.				
i	300 mm x 150 mm	No.		2.00	
ii	150 mm x 150 mm	No.		2.00	
c)	Supply, fabricating, erecting, fixing and installing of following size of base perforated Cable Tray, fabricated with 14 SWG MS Sheet steel Hot dip Galvanized including all installation accessories (Hot Dip Galvanized) (ensure 80um microns) such as appropriate sizes and lengths of MS Rod / Angle Iron Supports and Rawl Bolts, including cutting, welding, jointing and necessary required hardware etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer.				
i	300 mm x 50 mm (1'-0" x 0'-2")	Rm.		15.00	
d)	Providing and Construction of Handhole Size 2'-0" x 2'-0" x 3'-0" deep, 6" thick, concrete 1:2:4 ratio with round heavy duty cast iron cover, 100% water proof, as per drawings and specification etc., complete in all respect.	No.		2.00	
4	WIRING ACCESSORIES				
a)	Supply, installation, testing and commissioning of following 10/13/15/20A, gang type switches, Dimmer Switches, Sockets including 16 SWG Sheet Steel powder coated back boxes with earth terminal, including with all required installation accessories, surface / recessed in wall / column etc., as per specifications and drawings, complete in all respect.				
i	One Gang Switch 10A	No.		25.00	
ii	Two Gang Switch 10A	No.		35.00	
iii	Three Gang Switch 10A	No.		40.00	
iv	Four Gang Switch 10A	No.		35.00	
v	13A, Universal / International Switch Socket Outlet	No.		550.00	
vi	13A, Spur Socket Outlet	No.		80.00	
vii	15A, 3-Pin Switch Socket Outlet	No.		4.00	
viii	16A, 5-Pin Industrial socket including Plug top complete with Angle Iron	No.		6.00	
b)	Supply, installation, testing and commissioning of Floor Box (imported), 14 SWG Sheet Steel with all accessories, as per drawings, specifications and site requirements, complete in all	No.		6.00	

S. No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	respect. Note: Excluded of all Sockets and Face plates.				
5	LIGHT FIXTURES				
a)	Supply, installing, testing and commissioning of following Light Fixtures complete with starters, Electronic ballast (mention otherwise), lamps, drivers,mounting accessories etc., complete in all respects. Lighting fixtures Sample must be submitted to consultant for approval, (For complete detail references of Light Fixtures, (Make Phillips, Pierlite, Osram)				
i	Type-A Surface mounted LED Light Fixture (48"x48") IP-20 rated with UV Shield Poly Carbonated housing, Stainless Steel bracket and 30W LED	No.		15.00	
ii	Type-B Recessed mounted LED Light Fixture (24"x24") IP-20 rated with UV Shield Poly Carbonated housing, Stainless Steel bracket and 36W LED	No.		225.00	
iii	Type-C Ceiling Recessed mounted LED Light Fixture (12"x48") IP-20 rated with Aluminum housing and 18W LED	No.		105.00	
iv	Type-D Surface mounted LED Downlight Fixture, IP-20 rated with Aluminum / Die Cast Glass cover housing and 24W LED	No.		82.00	
v	Type-E Recessed / Surface mounted LED Downlight Fixture, IP-20 rated with Aluminum + Poly Carbonate housing and 17W LED	No.		550.00	
vi	Type-F Recessed mounted LED Downlight Fixture, IP-20 rated with Aluminum + Poly Carbonate housing and 6W LED	No.		125.00	
viii	Type-G Surface mounted LED Downlight Fixture, IP-20 rated with Aluminum + Poly Carbonate housing and 2x15W LED	No.		20.00	
viii	Type-H Surface mounted LED Linear Light Fixture, IP-20 rated with Aluminum + Poly Carbonate housing and 40W LED	No.		15.00	
ix	Type-I Surface mounted LED Linear Light, IP-20 rated with Aluminum Profile 2"x96" and 15W / Meter LED	No.		10.00	
x	Type-J Surface mounted LED Linear Light, IP-20 rated with Aluminum Profile 3"x72" and 15W / Meter LED	No.		25.00	
xi	Type-K Surface mounted LED Linear Light, IP-20 rated with Aluminum Profile 2"x72" and 15W / Meter LED	No.		15.00	
xii	Type-L In Ground / Surface mounted LED Planter light / Mini Flood Light Fixture, IP-65 rated with Die Cast Aluminum housing, Tempered Glass and 9W LED	No.		10.00	
xiii	Type-M Surface mounted LED Strip Light, IP-20 rated with 5W / Meter LED	Rm.		700.00	
xiv	Type-N Recessed mounted LED Downlight Fixture, Fire rated min 90 minutes with 20W LED	No.		16.00	
xv	Type-Q 8W, Exit light with self contained Battery (3 Hours Battery backup), 24m viewing, Directional Pandent, IP-20 rated UL 924 Listed (Maintained Type)	No.		21.00	
xvi	Type-R 8W, Emergency light with self contained Battery (3 Hours Battery backup), Surface mounted IP-65 rated, UL 924 Listed, Poly Carbonate housing (Non-Maintained Type)	No.		112.00	
6	WIRING FOR LIGHTS & SOCKETS				
a)	Supply, laying, tagging, termination, testing and commissioning of Circuit wiring from DB to Switchboard including wiring between switch on the same circuit with 3x2.5 sq.mm single core copper conductor PVC insulated wires in	No.		45.00	

S. No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	25mm dia PVC conduit surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc., as per drawing and specification, complete in all respect.				
b)	Supply, laying, tagging, termination, testing and commissioning of Point wiring from Switch Board to Light Point with 3x1.5 sq.mm single core copper conductor PVC insulated wires in 20mm dia PVC conduit, surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc. as per drawing and specification, complete in all respect.	No.		300.00	
c)	Supply, laying, tagging, termination, testing and commissioning of Point wiring from Light point to Light point with 3x1.5 sq.mm single core copper conductor PVC insulated wires in 20mm dia PVC conduit, surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc. as per drawing and specification, complete in all respect.	No.		600.00	
d)	Supply, laying, tagging, termination, testing and commissioning of Circuit wiring from DB to Switchboard with 3x2.5 sq.mm single core LSZH copper conductor PVC insulated wires in 25mm dia PVC conduit surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc., as per drawing and specification, complete in all respect.	No.		1.00	
e)	Supply, laying, tagging, termination, testing and commissioning of Point wiring from Switch Board to Light Point with 3x1.5 sq.mm single core LSZH copper conductor PVC insulated wires in 20mm dia PVC conduit, surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc. as per drawing and specification, complete in all respect.	No.		4.00	
f)	Supply, laying, tagging, termination, testing and commissioning of Point wiring from Light point to Light point with 3x1.5 sq.mm single core LSZH copper conductor PVC insulated wires in 20mm dia PVC conduit, surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc. as per drawing and specification, complete in all respect.	No.		12.00	
g)	Supply, laying, tagging, termination, testing and commissioning of Circuit wiring from DB to Ist. light point with 3x2.5 sq.mm single core copper conductor PVC insulated wires in 25mm dia PVC conduit surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc., as per drawing and specification, complete in all respect.	No.		15.00	
h)	Supply, laying, tagging, termination, testing and commissioning of wiring from Light point to Light Point with 3x2.5 sq.mm single core copper conductor PVC insulated wires in 25mm dia PVC conduit surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc., as per drawing and specification, complete in all respect.	No.		165.00	
j)	Supply, laying, tagging, termination, testing and commissioning of Circuit wiring from DB to Emergency / Exit light point with 3x2.5 sq.mm single core copper conductor PVC insulated wires in 25mm dia PVC conduit surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc., as per drawing and specification, complete in all respect.	No.		8.00	
k)	Supply, laying, tagging, termination, testing and commissioning of wiring from Emergency / Exit Light point to Emergency / Exit Light Point with 3x2.5 sq.mm single core copper conductor PVC insulated wires in 25mm dia PVC conduit surface / recessed in wall, column, ceiling etc., including with all conduit accessories, back boxes etc., as per drawing and specification, complete in all respect.	No.		150.00	
l)	Supply, laying, tagging, termination, testing and commissioning of wiring for 13/15A Socket / Spur outlet with				

S. No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
	3x4 sq.mm single core copper conductor PVC insulated wires in 25mm dia PVC conduit, surface / recessed in wall, column, ceiling, under floor etc, including with all conduit accessories, back boxes etc. as per drawing & specification, complete in all respect.				
i	DB to Socket outlet	No.		70.00	
ii	Socket outlet to Socket outlet	No.		550.00	
m)	Supply, laying, tagging, termination, testing and commissioning of wiring for 13A Socket outlet with 3x4 sq.mm single core LSZH copper conductor PVC insulated wires in 25mm dia PVC conduit, surface / recessed in wall, column, ceiling, under floor etc, including with all conduit accessories, back boxes etc. as per drawing and specification, complete in all respect.				
i	DB to Socket outlet	No.		1.00	
ii	Socket outlet to Socket outlet	No.		8.00	
7	UPS SYSTEM				
	Supply, installation, testing and commissioning of following True Online Double Conversion UPS complete with on load testing, lifting, placement and all installation accessories, as per specifications and drawings, complete in all respect.				
a)	Supply, installation, testing and commissioning of True Online Double Conversion UPS rating 10 kVA, 400V input voltage, 3 Phase in, 3 Phase out, input power factor ≥ 0.99 at full load and rated voltage, with 10 minutes battery backup, including Dry Sealed Maintenance Free batteries, related DC cables from UPS to batteries, external By-pass, SNMP Management Card, on load testing, lifting, placement and all accessories, as per specifications and drawings, complete in all respect.	No.		2.00	
8	EARTHING SYSTEM				
a)	Supply, installation, testing and commissioning of following items for complete Power Earthing system, including Bentonite chemical, other all required materials and connecting accessories, boring, labor, tools, transportation etc., as per drawings and specifications, complete in all respects with detailed test reports.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 9 Ft. long copper bonded rod to achieve the earthing resistivity as mentioned in drawings.	No.		3.00	
b)	Supply, installation, testing and commissioning of following items for complete Clean Earthing system, including Bentonite chemical, other all required materials and connecting accessories, boring, labor, tools, transportation etc., as per drawings and specifications, complete in all respects with detailed test reports.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 9 Ft. long copper bonded rod to achieve the earthing resistivity as mentioned in drawings.	No.		3.00	
c)	Supply, installation, testing and commissioning of following size of PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) installed on surface / in appropriate already installed raceway / in already excavated trench / in already laid pipe, complete in all respect.				
i	120 Sq.mm	Rm.		45.00	
ii	16 Sq.mm	Rm.		35.00	
	Grand total Electrical work Non-Schedule				

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

F. Voice & Data Communication System (Non-Schedule)

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
1	VOICE & DATA COMMUNICATION SYSTEM (Passive Equipment Only)				
	Supply, installation, testing and commissioning of following Data / Voice items, as per the single line diagram and specification, complete in all respect. **Note: Contractor is advised to confirm the cable running length before commencement of work and termination as per site requirements.**				
a)	Supply, installation, testing and commissioning of following Wall / Floor mounted, Data / Voice Cabinets for patch panel, Fiber panels, adapter, PDU's, Fans and space for active switches as it may require to complete the entire passive and active network as per the single line diagram, drawings and specifications, complete in all respect.				
i	18U Data Rack with PDU's	No.		4.00	
b)	Supply, laying, termination, tagging, testing and commissioning of Cat-6, 4 pair cable for Single RJ-45 outlet (Data, Voice & Wifi systems) in 25mm dia PVC conduit, concealed / surface / recessed in wall, column, ceiling etc. from each outlet to IDF rack, including all necessary accessories, as per drawing and specification, complete in all respect. Make: 3M corning	Rm.		6,375.00	
c)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for Voice with shutter type and 16 SWG back box including tagging,as per drawing and specification, complete in all respect.	No.		75.00	
d)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for Data with shutter type and 16 SWG back box including tagging,as per drawing and specification, complete in all respect.	No.		150.00	
e)	Supply, installation, testing and commissioning of Dual RJ-45, Cat-6 Outlet for Voice and Data point with I/O - Shutter type with 16 SWG back box as per drawing and specification, complete in all respect.	No.		6.00	
f)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 Data outlet for Camera with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	No.		35.00	
g)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 Data outlet for Wifi with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	No.		36.00	
h)	Supply, installing, testing and commissioning of 24 port shutter type Cat-6, RJ 45 UTP Patch Panel fully loaded with tool less jacks and rear cable manager, as per drawing and specification, complete in all respect.	No.		9.00	
j)	Supply, installing, testing and commissioning of 24 port Single Mode Fiber Patch Panel fully loaded with pigtails, rear cable manager etc., as per drawing and specification, complete in all respect.	No.		2.00	
k)	Supply, installing, testing and commissioning of 19" front/rear (as required) cable organizer between patch panels and active equipment to provide patch cable management including with all necessary accessories, as per drawing & specification, complete in all respect.	No.		15.00	
l)	Supply, installation, testing and commissioning of Cat-6 UTP (RJ-45 to RJ-45) for the above Patch Panels including with all necessary accessories, as per drawing and specification, complete in all respect. (As per required quantity)				

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
i	CAT-6 (1m) Long Patch Cord	No.		250.00	
ii	CAT-6 (3m) Long Patch Cord	No.		250.00	
m)	Supply, installation, testing and commissioning of following Fiber Optic Patch Cords (certified) of specified color at both ends for communication with SC/LC/APC connector. (As per requirement depends on active part)				
i	3m Long Patch Cord	No.		2.00	
n)	Supply, installation, testing and commissioning of following 19" Tag blocks in Data rack, as per drawings and specifications, complete in all respect.				
i	1x50 Pair IDC Block 19" type	No.		2.00	
ii	1x25 Pair IDC Block 19" type	No.		1.00	
o)	Supply, laying, termination, testing and commissioning of 12C, Single Mode Armoured incoming Fiber Optic Cable to Server Rack in already installed cable tray / conduit, as shown in drawings including termination and tagging at both ends, as per standard specifications with all termination accessories up to entire satisfaction of IT Engineer.	Rm.		50.00	
p)	Supply, laying, termination, testing and commissioning of 8C, Multi Mode Tight Fiber Optic Cable from Server Rack to second floor rack in already installed cable tray / conduit, as shown in drawings including termination and tagging at both ends, as per standard specifications with all termination accessories up to entire satisfaction of IT Engineer.	Rm.		45.00	
q)	Supply, laying, termination, testing and commissioning of 25 Pair Cat-5E Copper Jelly filled Cable from Server Rack to second floor rack in already installed cable tray / conduit, as shown in drawings including termination and tagging at both ends, as per standard specifications with all termination accessories up to entire satisfaction of IT Engineer. Note: Contractor is advised to confirm the cable running length before commencement of work and termination as per site requirements.	Rm.		20.00	
r)	Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTDR Testing,as build drawing,Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.	Job.		1.00	
	Grand total Voice & Data Communication work Non-schedule				

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

G. Public Address System (Non-Schedule)

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
1	PUBLIC ADDRESS SYSTEM				
	Supply, installation, testing and commissioning of following items for Public Address System, described below including all accessories, mounting brackets, installation accessories, wiring etc. as per drawings and specifications, complete in all respect. **Note: System will be finalized as per Client's requirements and subject to the submittal approval.**				
a)	Supply, laying, tagging, termination, testing and commissioning of wiring for complete PA System with 2C, 2.5 Sq.mm PVC/PVC Flexible Cable in 25mm dia PVC conduit, recessed / surface / ceiling, as per drawing and specification. Complete in all respect.	Rm.		400.00	

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
b)	Supply, wiring and testing of PA Microphone point with flexible Microphone Cable in 25mm dia PVC Conduit, recessed / surface in wall / column, ceiling, under floor, including Swiss Jacks, Wall mounted Imported Juncation box etc., as per drawing and specification, complete in all respects.	Job		1.00	
c)	Supply, installation, testing and commissioning of Microphone outlet with faceplate, as per drawing and specification, complete in all respects.	No.		1.00	
d)	Supply, installation, testing and commissioning of Public Address System complete with all connecting accessories comprising of the following equipment with complete connecting accessories, as per drawing and specification, complete in all respect.				
i	Supply, installation, testing and commissioning of 120W Digital Mixer Amplifier with 5 Speaker Zones builtin MP3, LED Display, Support USB, SD/MMC card (up to 32GB), Bluetooth, Radio FM, MIC 1: Mutes other input, Frequency Response 50 - 20,000 Hz, 4 Mic Inputs & 2 Aux Inputs, S/N Ratio Over 60 dB, Total Harmonic Distortion Under 1% at 1 kHz, 1/3 rated power, as per drawing and specification, complete in all respects.	No.		3.00	
ii	Supply, installation, testing and commissioning of Zone Selection Remote Microphone with programable Keys and fault monitoring, EN54 compliant, as per drawings and specifications, complete in all respect.	No.		3.00	
iii	Supply, installation, testing and commissioning of Desk Pagging Gooseneck Microphone Polar Pattern Cardioid Power 3V DC Rated Impedance 750 Ω, balanced, Rated Sensitivity - 41 dB ±3dB (1 kHz 0 dB=1 V/Pa), Frequency Response 50 Hz - 16,000 Hz, as per drawing and specification, complete in all respects.	No.		3.00	
iv	Supply, installation, testing and commissioning of 27U Rack Cabinet with Perforated Door to accommodate above equipments, as per drawing and specification, complete in all respects.	No.		2.00	
v	Providing & Connecting of Inter Connects Cables etc.	Job		2.00	
e)	Supply, installation, testing and commissioning of following type Speakers of Architect Approved color with all mounting and installation accessories, steel wire and holding arrangements, as per drawing and specification, complete in all respects.				
i	6W Ceiling / Surface mounted Speakers with fire dome and Tapping Transformers (1,1.5,3,4.5,6W), EN54 Compliant.	No.		51.00	
f)	Installation, testing and commissioning, Programming by Manufacturer Authorized Agent / Dealer and handing over complete Public Address / Voice Alarm System to Owner with providing training, SOP, complete equipment's manual and warranty documents to Owners representative.	Job		1.00	
	Grand Total Public Address work Non-Schedule				

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

H. Cctv System (Non-Schedule)

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
1	CCTV SYSTEM				
	Supply, installation, tagging, testing and commissioning of following items for CCTV System complete with power cord, interconnecting cables, mounting brackets and other all fixing accessories, as per the single line diagram and specification, complete in all respect.				
a)	Supply, installation, tagging, testing and commissioning of 4MP IP based Dome camera with 1/2.8" CMOS 3.3 to 12mm varfocal lens, power adopter, complete in all respect with fixing accessories, as per drawing and specifications, complete in all respect.	No.		40.00	
b)	Supply, installation, tagging, testing and commissioning of 4MP IP based camera with 1/2.8" CMOS 3.3 TO 12mm varfocal lens, power adopter, wall mounted bracket and IP-65 housing, complete in all respect with fixing accessories, as per drawing and specifications, complete in all respect.	No.		4.00	
c)	Supply, installation, tagging, testing and commissioning of 32 Channel NVR with RAID 1+0 configuration based, built-in VMS built-in 48TB HDD for 24/7 recording with integral access slots for HDD suspension bays & 10 client Licenes, as per drawing and specifications, complete in all respect.	No.		2.00	
d)	Supply, laying, termination, tagging, testing and commissioning of wiring for complete CCTV System with Cat-6, 4 pair cable in 25mm dia PVC conduit, concealed / surface / recessed in wall, column, ceiling etc., including all necessary accessories, as per drawing and specification, complete in all respect. Make 3M corning	Rm.		1,500.00	
e)	Supply, installation, testing and commissioning of 32" LED Screen, including all mounting accessories etc., as per drawing and specifications, complete in all respect.	No.		4.00	
f)	Supply, installation, testing and commissioning of Core i5 Work Station, 14/15th Generation, complete with Dual VGA Card, Licensed windows 10, Mouse & Keyboard etc., as per drawing and specifications, complete in all respect.	No.		3.00	
g)	Supply, installation, testing and commissioning of variable speed desktop keyboard with all fixing accessories, as per drawing and specifications, complete in all respect.	No.		1.00	
h)	Installation, testing, commissioning, programming by Manufacturer Authorized Agent / Dealer and handing over complete CCTV System to Owner with providing training, SOP, complete equipment's manual and warranty documents to owners representative.	Job.		1.00	
	Grand total CCTV work non-Schedule				

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

I. Addressable Fire Alarm System (Non-Schedule)

S.No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
1	ADDRESSABLE FIRE ALARM SYSTEM				
a)	Supply, laying, tagging, termination, testing and commissioning of fire rated wiring for complete Fire Alarm System with 2C-2.5 Sq.mm shielded, twisted pair Fire Retardant Cable (2 hrs. rated) in 25mm dia PVC conduit concealed, (M.S conduit for surface) etc., including any wiring between fire alarm control panel and other's systems control panel's etc. Complete in all respect.	Rm.		1,500.00	
b)	Supply, installation, testing and commissioning of Addressable Photoelectric Smoke Detector with base and back box, as per drawing and specification, complete in all respect.	No.		175.00	
c)	Supply, installation, testing and commissioning of Addressable Heat Detector with base and back box, as per drawing and specification, complete in all respect.	No.		4.00	
d)	Supply, installation, testing and commissioning of Addressable Manual Pull Station / Call Point with base and back box, as per drawing and specification, complete in all respect.	No.		20.00	
e)	Supply, installation, testing and commissioning of Addressable Sounder with flasher / Strobe and base and back box, as per drawing and specification, complete in all respect.	No.		20.00	
f)	Supply, installation, testing and commissioning of 02 Loop Analogue Intelligent Addressable Fire Alarm Control Panel (FACP) including all necessary accessories, Backnet Card for Interfacing of Panels to BMS with soft programming and integration, identification tagging etc. and 3Hrs battery back up. FACP as per drawing and specification, complete in all respect.	No.		1.00	
g)	Installation, testing and commissioning, Softwear, Programming by Manufacturer Authorized Agent / Dealer and handing over complete Fire Alarm system to owner with providing training, SOP, complete equipment's manual and warranty documents to Owner's Representative.	Job		1.00	
	Grand total Addressable Fire Alarm work Non-Schedule				

CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI.

BILL OF QUANTITIES

J. Access Control System (Non-Schedule)

S. No	Description of Work	Unit	Rate (Rs.)	Quantity	Total Amount (Rs.)
1	ACCESS CONTROL SYSTEM				
	Supply, installation, testing & commissioning of following items for Access Control System including all communication, power and controlling accessories, housings, mounting brackets, suspension rods etc. required for completion of the system, as per drawing and specification. Complete in all respect.				
a)	Supply, installation, tagging, testing and commissioning of 2 Door Controller LAN Based with power supply and all fixing accessories, as per drawings, specification and upto entire satisfaction of Engineer / consultant, complete in all respect.	No.		9.00	
b)	Supply, installation, tagging, testing and commissioning of Proximity Card Reader with all accessories, as per drawings and specification, complete in all respect.	No.		17.00	
c)	Supply, installation, tagging, testing and commissioning of RFID Reader with all accessories, as per drawings and specification, complete in all respect.	No.		1.00	
d)	Supply, installation, tagging, testing and commissioning of Electromagnetic Door Lock with matching power supply and with all fixing accessories, as per drawings and specification, complete in all respect.	No.		24.00	
e)	Supply, installation, tagging, testing and commissioning of Exit Control Push Button with all fixing accessories, as per drawings and specification, complete in all respect.	No.		17.00	
f)	Supply, installation, testing and commissioning of PVC Card for Reader, as per drawing and specifications, complete in all respect.	No.		100.00	
g)	Supply, laying, termination, tagging, testing and commissioning of wiring for complete Access Control System with Cat-6, 4 pair cable in 25mm dia PVC conduit, concealed / surface / recessed in wall, column, ceiling etc., including all necessary accessories, as per drawing and specification, complete in all respect.	Rm.		700.00	
h)	Supply, installation, testing and commissioning of Core i5 Work Station, 14/15th Generation, complete with Dual VGA Card, Licensed windows 10, Mouse & Keyboard etc., as per drawing and specifications, complete in all respect.	No.		1.00	
j)	Supply, installation, testing and commissioning of Access control Enterprise Software with enterprise level time attendance software integrated with IP Based CCTV System. Complete in all respect.	No.		1.00	
k)	Programming, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Access Control System to Owner with providing training, SOP, complete equipment's manual and warranty documents to owners representative.	Job.		1.00	
	Grand total Access Control work Non-Schedule				

Appendix-E to Bid

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 procuring agency'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):

	Description	**Time for Completion**
1)	Whole works	_____days
2)	Part-A	_____days
3)	Part-B	_____days
4)	_____	_____days
5)	_____	_____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.

Appendix-G to Bid

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.]

BG-2

Appendix-G to Bid

LIST OF MAJOR EQUIPMENT (SAMPLE)

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						

Appendix-H to Bid

CONSTRUCTION CAMP AND HOUSING FACILITIES

The Contractor in accordance with Clause 6 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.).

Appendix-I to Bid

LIST OF SUBCONTRACTORS

I/We intend to subcontract the following parts of the work to subcontractors. In my/our opinion, the subcontractors named hereunder are reliable and competent to perform that part of the work for which each is listed.

Enclosed are documentation outlining experience of subcontractors, the curriculum vitae and experience of their key personnel who will be assigned to the contract, equipment to be supplied by them, size, location and type of contracts carried out in the past.

Part of Works (Give Details)	**Subcontractor (With Complete Address)**
1	**2**

Appendix-J to Bid

ESTIMATED PROGRESS PAYMENTS (SAMPLE)

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 Pakistani Rupees:

Quarter/ Year/ Period	**Amounts (in thousands)**
1	**2**
Ist Quarter	
2nd Quarter	
3rd Quarter	
4th Quarter	
5th Quarter	
6th Quarter	
Bid Price	

Appendix-K to Bid

ORGANIZATION CHART FOR THE SUPERVISORY STAFF AND LABOUR

(To be filled in by the bidder)

(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 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 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 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, from Procuring Agency (PA) except that which 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 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 Contractor] 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 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 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 time the sum of any commission, gratification, bribe, finder"s fee or kickback given by [name of Contractor] 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] [Contractor]

FORMS

BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT
MOBILIZATION ADVANCE GUARANTEE
INDENTURE BOND FOR SECURED ADVANCE

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 'Procuring Agency') 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 Procuring Agency; and

WHEREAS, the Procuring Agency 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 procuring agency, 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 procuring agency, notice of which extension(s) to the Surety is hereby waived;

(2) that the bid security of unsuccessful bidders will be returned by the procuring agency 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 procuring agency 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 therefore, on the prescribed form presented to him for signature enter into a formal Contract with the said procuring agency 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 procuring agency 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 procuring agency, the said sum upon first written demand of the procuring agency (without cavil or argument) and without requiring the procuring agency to prove or to show grounds or reasons for such demand, notice of which shall be sent by the procuring agency by registered post duly addressed to the Surety at its

address given above.

PROVIDED ALSO THAT the procuring agency 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 procuring agency 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 Procuring Agency]

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 procuring agency) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said procuring agency, 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 procuring agency'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 procuring agency, 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 procuring agency without delay upon the procuring agency's first written demand without

cavil or arguments and without requiring the procuring agency to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the procuring agency'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 Procuring Agency's designated Bank & Account Number.

PROVIDED ALSO THAT the procuring agency 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 procuring agency 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 _____

_____
Corporate Secretary (Seal)

Name_____

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) 20_____ between _____ (hereafter called the "Procuring Agency") of the one part and _____(hereafter called the "Contractor") of the other part.

WHEREAS the Procuring Agency 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 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 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 Special 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 procuring agency to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the procuring agency to execute and complete the works and remedy defects therein in conformity and in all respects with the provisions of the contract.

4. Procuring agency 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 Procuring Agency
_____	_____
(Seal)	(Seal)
Signed, Sealed and Delivered in the presence of:	
Witness:	Witness:
_____	_____
(Name, Title and Address)	(Name, Title and Address)

MOBILIZATION ADVANCE GUARANTEE

Bank Guarantee No._____Date _____

WHEREAS_____(hereinafter called the 'Procuring Agency') has entered into a Contract for _____
(Particulars of Contract)
with_____(hereinafter called the "Contractor').

AND WHEREAS, the Procuring Agency has agreed to advance to the Contractor, at the Contractor's request, an amount o f Rupees_____(Rs_____) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS, the Procuring Agency has asked the Contractor to furnish Guarantee to secure the mobilization advance for the performance of his obligations under the said Contract.

AND WHEREAS, _____
(Scheduled Bank in Pakistan)
(hereinafter called the "Guarantor") at the request of the Contractor and in consideration of the **procuring agency** agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW, THEREFORE, the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails and commits default in fulfilment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the procuring agency for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the procuring agency shall be the sole and final judge, on the part of the Contractor, shall be given by the procuring agency to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall remain in force until the advance is fully adjusted against payments from the Interim Payment Certificates of the Contractor or until _____whichever is earlier.
(Date)
The Guarantor's liability under this Guarantee shall not in any case exceed the sum of Rupees _____(Rs_____).

This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made to the Contractor is fully adjusted against payments from Interim Payment Certificates of the Contractor provided that the Guarantor agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted.

GUARANTOR

1. Signature _____
2. Name _____
3. Title _____

WITNESS

1. _____

_____
Corporate Secretary (Seal)

2. _____ _____
(Name Title & Address) Corporate Guarantor (Seal)

INDENTURE FOR SECURED ADVANCES.

(For use in cases in which is contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time).

This INDENTURE made the …….. day of ..... ……. 20…… BETWEEN (hereinafter called "the Contractor" which expression shall where the context so admits or implied be deemed to include his heirs, executors, administrators and assigns) of the one part and The Vice Chancellor of DUHS (hereinafter called "the Procuring Agency" of the other part).

WHEREAS by an agreement, dated (hereinafter called the said agreement, the contractor has agreed to perform the under-mentioned works (hereinafter referred to as the said work):-

(Here enter (the description of the works).[1]

AND WHEREAS the contractor has applied to the …….. ……..……..for an advance to him of Rupees ……..…… (Rs. .....) on the security of materials absolutely belonging to him and brought by him to the site of the said works the subject of the said agreement for use in the construction of such of the said works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charge) AND WHEREAS the Procuring Agency has agreed to advance to the Contractor the sum of Rupees, (Rs. .....) on the security of materials the quantities and other particulars of which are detailed in Part II of Running Account Bill (B). the said works signed by the contractor

Fin R.Form.l7.A

On ……. and on such covenants and conditions as are hereinafter contained and the Procuring Agency has reserved to itself the option of marking any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

NOW THIS INDENTURE WTTNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees…… (Rs. ……) on or before the execution of these presents paid to the Contractor by the procuring Agency (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid (all of which advances are hereinafter collectively referred to as the said amount) the Contractor doth hereby assign unto the procuring agency the said materials by way of security for the said amount

And doth hereby covenant and agree with the procuring agency and declare ay follow :-

(1) That the said sum of Rupees ..... Rs. ……) so advanced by the procuring agency to the Contractor as aforesaid and all or any further sum or sums which may be advanced as aforesaid shall be employed by the contractor in or towards expending the execution of the said works and for no other purpose whatsoever.

(2) That the materials detailed in the said Running Account Bill (B) which have been offered to and accepted by (the procuring agency as security for the said amount are absolutely by the Contractors own property free from encumbrances of any kind and the Contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the contractor hereby agrees, at all times, to indemnify

and save harmless the procuring agency against all claims whatsoever to any materials in respect of which an advance has been made to him as aforesaid.

(3) That the said materials detailed in the said Running Account Bill (B) and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in *the* execution of the said works in accordance with the directions of the Divisional Officer (hereinafter called the Divisional Officer) and in the terms of the said agreement.

(4) That the Contractor shall make at his own cost all necessary and adequate arrangement for the proper watch, safe custody and protection against all risks of the said material and that until used in construction as aforesaid the said materials shall remain at jthe site of the said works in the Contractor's custody and at his own risk and on his own responsibility and shall at all times be open to inspection by (he Divisional Officer or any officer authorized by him. In the event of the said materials of any part (hereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof Contractor will forthwith replace the same with other materials of like qualify or repair and make good the same as required by the Divisional Officer and the materials so brought to replace the said materials so repaired and made good shall also be considered as security for the said amount.

(5) 'Hurt the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional Officer or an officer authorized by him in that behalf

(6) That the said amount shall be payable in full when or before the Contractor receives payment, from the procuring agency of the price payable to him for the said works under the terms and provisions of the said agreement PROVIDED THAT if any intermediate payments are made to the contractor on account of work done then on the occasion of each such payment the procuring agency will be at liberty to make a recovery from the Contractors Bill for such payment by deducting there from in the value of the said materials (hen actually used in the construction and in respect of which recovery has not been made previously the value for this purpose being determined in respect of each description of material at (he rates at which the amount of the advances made under these presents were calculated.

(7) at if the Contractor shall at any time make any default in the performance or observation in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the procuring agency shall immediately on the happening of such default be repayable by the Contractor to the procuring agency together with interest thereon at twelve percent per annum from the date or respective dates of such advance or advances to the date or repayment and with all costs, charges, damages and expenses incurred by the procuring agency in or for the recovery thereof or the

enforcement of this security or otherwise by reason of (he default of the Contractor and any moneys so becoming due and payable shall constitute a debt due from the Contractor to the procuring agency and the Contractor hereby covenants and agrees with the procuring agency to repay and the same respectively to it accordingly.

(8) That the Contractor hereby charges all the said materials with the repayment to the procuring agency of the said sum of Rupees..... (Rs. .....) and any further sum or sums which may be advanced as aforesaid and all costs charges damages and expenses payable under these present PROVIDED ALWAYS and it is hereby agreed and declared that not, withstanding anything in the said agreement and without prejudice to the powers contained therein if and whether the covenant for payment and repayment hereinbefore contained shall become enforceable and the money owing shall not be paid toaccordingly.

Once there with the procuring agency may at any time thereafter adopt all or any of following courses as it may deem best ;-

(a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay the same to the procuring agency on demand.

(b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable to the procuring agency under these presents and pay over the surplus (if any) to the Contractor.

(c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the saidagreement.

(9) That except as is expressly provided by the presents interest on the said advance shall not be payable.

(10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been hereinbefore expressly provided for the same shall be referred to the Superintending Engineer/Executive District Officer/Officer one grade higher to officer signed the agreement Circle whose.....decision shall be final and the provisions of the Arbitration Act 1940 for the time being in force so far as they are applicable shall apply to any suchreference.

Singed, sealed and delivered by*
In the presence of

SEAL

1st witness
2nd witness

Singed, sealed and delivered by*
In the presence of

SEAL

1st witness
2nd witness

Notes on the Conditions of Contract

The Conditions of Contract comprise two parts:

(a) Part I - General Conditions of Contract
(b) Part II - Special Conditions of Contract

Over the years, a number of "model" General Conditions of Contract have evolved. The one used in these Standard Bidding Documents was prepared by the International Federation of Consulting Engineers (Federation International des Ingenious-Conseils, or FIDIC), and is commonly known as the FIDIC Conditions of Contract. (The used version is the harmonized Edition March 2006).

The FIDIC Conditions of Contract have been prepared for an ad measurement (unit price or unit rate) type of contract, and cannot be used without major modifications for other types of contract, such as lump sum, turnkey, or target cost contracts.

The standard text of the General Conditions of Contract chosen must be retained intact to facilitate its reading and interpretation by bidders and its review by the procuring agency. Any amendments and additions to the General Conditions, specific to the contract in hand, should be introduced in the Particular Conditions of Contract.

The use of standard conditions of contract for all civil works will ensure comprehensiveness of coverage, better balance of rights or obligations between procuring agency and Contractor, general acceptability of its provisions, and savings in time and cost for bid preparation and review, leading to more economic prices.

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* Add the following text if the bidding documents, as issued, do not include a copy:
"Copies of the FIDIC Conditions of Contract can be obtained from:
To request such permission please contact:
FIDIC CASE POSTALE, CH-1215 Switzerland;
-Tel. +41 22 799 49 00;
Fax; +41 22 799 49 01
E-mail: fidic@fidic.org.

Conditions of Contract
for CONSTRUCTION

FOR BUILDING AND ENGINEERING WORKS DESIGNED BY THE EMPLOYER

Multilateral Development Bank Harmonised Edition
March 2006

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FEDERATION INTERNATIONALE DES INGENIEURS-CONSEILS
INTERNATIONAL FEDERATION OF CONSULTING ENGINEERS
INTERNATIONALE VEREINIGUNG BERATENDER INGENIEURE
FEDERACION INTERNACIONAL DE INGENIEROS CONSULTORES

General Conditions

CONTENTS

Definitions listed alphabetically GENERAL

PROVISIONS

1.1 Definitions
1.2 Interpretation
1.3 Communications
1.4 Law and Language
1.5 Priority of Documents
1.6 Contract Agreement
1.7 Assignment
1.8 Care and Supply of Documents
1.9 Delayed Drawings or Instructions
1.10 Employer's Use of Contractor's Documents
1.11 Contractor's Use of Employer's Documents
1.12 Confidential Details
1.13 Compliance with Laws
1.14 Joint and Several Liability
1.15 Inspections and Audit by the Bank

2 THE EMPLOYE R

2.1 Right of Access to the Site
2.2 Permits, Licences or Approvals
2.3 Employer's Personnel
2.4 Employer's Financial Arrangements
2.5 Employer's Claims

3 THE ENGINEER

3.1 Engineer's Duties and Authority
3.2 Delegation by the Engineer
3.3 Instructions of the Engineer
3.4 Replacement of the Engineer
3.5 Determinations

4 THE CONTRACTOR

4.1 Contractor's General Obligations
4.2 Performance Security

4.3 Contractor's Representative
4.4 Subcontractors
4.5 Assignment of Benefit of Subcontract
4.6 Co-operation
4.7 Setting Out
4.8 Safety Procedures
4.9 Quality Assurance
4.10 Site Data
4.11 Sufficiency of the Accepted Contract Amount
4.12 Unforeseeable Physical Conditions
4.13 Rights of Way and Facilities
4.14 Avoidance of Interference
4.15 Access Route
4.16 Transport of Goods
4.17 Contractor's Equipment
4.18 Protection of the Environment
4.19 Electricity, Water and Gas
4.20 Employer's Equipment and Free-Issue Materials
4.21 Progress Reports
4.22 Security of the Site
4.23 Contractor's Operations on Site
4.24 Fossils

5 NOMINATED SUBCONTRACTORS

5.1 Definition of "nominated Subcontractor"
5.2 Objection to Nomination
5.3 Payments to nominated Subcontractors
5.4 Evidence of Payments

6 STAFF AND LABOUR

6.1 Engagement of Staff and Labour
6.2 Rates of Wages and Conditions of Labour
6.3 Persons in the Service of Employer
6.4 Labour Laws
6.5 Working Hours
6.6 Facilities for Staff and Labour
6.7 Health and Safety
6.8 Contractor's Superintendence
6.9 Contractor's Personnel
6.10 Records of Contractor's Personnel and Equipment
6.11 Disorderly Conduct
6.12 Foreign Personnel
6.13 Supply of Foodstuffs
6.14 Supply of Water
6.15 Measures against Insect and Pest Nuisance
6.16 Alcoholic Liquor or Drugs
6.17 Arms and Ammunition
6.18 Festival and Religious Customs
6.19 Funeral Arrangements
6.20 Prohibition of Forced or Compulsory Labour
6.21 Prohibition of Harmful Child Labour
6.22 Employment Records of Workers

7 PLANT, MATERIALS AND WORKMANSHIP

7.1 Manner of Execution
7.2 Samples
7.3 Inspection
7.4 Testing
7.5 Rejection
7.6 Remedial Work
7.7 Ownership of Plant and Materials
7.8 Royalties

8 COMMENCEMENT, DELAYS AND SUSPENSION.....

8.1 Commencement of Works
8.2 Time for Completion
8.3 Programme
8.4 Extension of Time for Completion
8.5 Delays Caused by Authorities
8.6 Rate of Progress
8.7 Delay Damages
8.8 Suspension of Work
8.9 Consequences of Suspension
8.10 Payment for Plant and Materials in Event of Suspension
8.11 Prolonged Suspension
8.12 Resumption of Work 9

TESTS ON COMPLETION

9.1 Contractor's Obligations
9.2 Delayed Tests
9.3 Retesting
9.4 Failure to Pass Tests on Completion

10 EMPLOYER'S TAKING OVER

10.1 Taking Over of the Works and Sections
10.2 Taking Over of Parts of the Works
10.3 Interference with Tests on Completion
10.4 Surfaces Requiring Reinstatement

11 DEFECTS LIABILITY

11.1 Completion of Outstanding Work and Remedying Defects
11.2 Cost of Remedying Defects
11.3 Extension of Defects Notification Period
11.4 Failure to Remedy Defects
11.5 Removal of Defective Work
11.6 Further Tests
11.7 Right of Access
11.8 Contractor to Search
11.9 Performance Certificate
11.10 Unfulfilled Obligations
11.11 Clearance of Site

12 MEASUREMENT AND EVALUATION

12.1 Works to be Measured
12.2 Method of Measurement
12.3 Evaluation
12.4 Omissions

13 VARIATIONS AND ADJUSTMENTS

13.1 Right to Vary
13.2 Value Engineering
13.3 Variation Procedure
13.4 Payment in Applicable Currencies
13.5 Provisional Sums
13.6 Daywork
13.7 Adjustments for Changes in Legislation
13.8 Adjustments for Changes in Cost

14 CONTRACT PRICE AND PAYMENT

14.1 The Contract Price
14.2 Advance Payment
14.3 Application for Interim Payment Certificates
14.4 Schedule of Payments
14.5 Plant and Materials intended for the Works
14.6 Issue of Interim Payment Certificates
14.7 Payment
14.8 Delayed Payment
14.9 Payment of Retention Money
14.10 Statement at Completion
14.11 Application for Final Payment Certificate
14.12 Discharge
14.13 Issue of Final Payment Certificate
14.14 Cessation of Employer's Liability
14.15 Currencies of Payment

15 TERMINATION BY EMPLOYER

15.1 Notice to Correct
15.2 Termination by Employer
15.3 Valuation at Date of Termination
15.4 Payment after Termination
15.5 Employer's Entitlement to Termination for Convenience
15.6 Corrupt or Fraudulent Practices

16 SUSPENSION AND TERMINATION BY CONTRACTOR

16.1 Contractor's Entitlement to Suspend Work
16.2 Termination by Contractor
16.3 Cessation of Work and Removal of Contractor's Equipment
16.4 Payment on Termination

17 RISK AND RESPONSIBILITY

17.1 Indemnities
17.2 Contractor's Care of the Works

17.3 Employer's Risks
17.4 Consequences of Employer's Risks
17.5 Intellectual and Industrial Property Rights
17.6 Limitation of Liability
17.7 Use of Employer's Accommodation/Facilities

18 INSURANCE

18.1 General Requirements for Insurances
18.2 Insurance for Works and Contractor's Equipment
18.3 Insurance against Injury to Persons and Damage to Property
18.4 Insurance for Contractor's Personnel

19 FORCE MAJEURE

19.1 Definition of Force Majeure
19.2 Notice of Force Majeure
19.3 Duty to Minimise Delay
19.4 Consequences of Force Majeure
19.5 Force Majeure Affecting Subcontractor
19.6 Optional Termination, Payment and Release
19.7 Release from Performance

20 CLAIMS, DISPUTES AND ARBITRATION

20.1 Contractor's Claims
20.2 Appointment of the Dispute Board
20.3 Failure to Agree on the Composition of the Dispute Board
20.4 Obtaining Dispute Board's Decision
20.5 Amicable Settlement
20.6 Arbitration
20.7 Failure to Comply with Dispute Board's Decision
20.8 Expiry of Dispute Board's Appointment

APPENDIX: DISPUTE BOARD

General Conditions of Dispute Board Agreement
Annex: Procedural Rules

INDEX OF SUB-CLAUSES 77

Definitions listed alphabetically

1.1.4.1	Accepted Contract Amount	1.1.4.7	Interim Payment Certificate
1.1.2.11	Bank	1.1.6.5	Laws
1.1.3.1	Base Date	1.1.1.3	Letter of Acceptance
1.1.1.9	Bill of Quantities	1.1.1.4	Letter of Tender
1.1.2.12	Borrower	1.1.4.8	Local Currency
1.1.3.2	Commencement Date	1.1.5.3	Materials
1.1.1.1	Contract	1.1.2.1	Party
1.1.1.2	Contract Agreement	1.1.4.9	Payment Certificate
1.1.1.10	Contract Data	1.1.3.8	Performance Certificate
1.1.4.2	Contract Price	1.1.6.6	Performance Security
1.1.2.3	Contractor	1.1.5.4	Permanent Works
1.1.6.1	Contractor’s Documents	1.1.5.5	Plant
1.1.5.1	Contractor’s Equipment	1.1.4.10	Provisional Sum
1.1.2.7	Contractor’s Personnel	1.1.4.11	Retention Money
1.1.2.5	Contractor’s Representative	1.1.1.7	Schedules
1.1.4.3	Cost	1.1.1.9	Schedule, Payment Currencies
1.1.6.2	Country	1.1.5.6	Section
1.1.2.9	DB	1.1.6.7	Site
1.1.3.9	day	1.1.1.5	Specification
1.1.1.9	Daywork Schedule	1.1.4.12	Statement
1.1.3.7	Defects Notification Period	1.1.2.8	Subcontractor
1.1.1.6	Drawings	1.1.3.5	Taking-Over Certificate
1.1.2.2	Employer	1.1.5.7	Temporary Works
1.1.6.3	Employer’s Equipment	1.1.1.8	Tender
1.1.2.6	Employer’s Personnel	1.1.3.6	Tests after Completion
1.1.2.4	Engineer	1.1.3.4	Tests on Completion
1.1.2.10	FIDIC	1.1.3.3	Time for Completion
1.1.4.4	Final Payment Certificate	1.1.6.8	Unforeseeable
1.1.4.5	Final Statement	1.1.6.9	Variation
1.1.6.4	Force Majeure	1.1.5.8	Works
1.1.4.6	Foreign Currency	1.1.3.9	year
1.1.5.2	Goods		

General Conditions

General Provisions

1.1
Definitions

In the Conditions of Contract ("these Conditions"), which include Particular Conditions, Parts A and B, and these General Conditions, the following words and expressions shall have the meanings stated. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

1.1.1

The Contract

1.1.1.1 "Contract" means the Contract Agreement, the Letter of Acceptance, the Letter of Tender, these Conditions, the Specification, the Drawings, the Schedules, and the further documents (if any) which are listed in the Contract Agreement or in the Letter of Acceptance.

1.1.1.2 "Contract Agreement" means the contract agreement referred to in Sub- Clause 1.6 [Contract Agreement].

1.1.1.3 "Letter of Acceptance" means the letter of formal acceptance, signed by the Employer, of the Letter of Tender, including any annexed memoranda comprising agreements between and signed by both Parties. If there is no such letter of acceptance, the expression "Letter of Acceptance" means the Contract Agreement and the date of issuing or receiving the Letter of Acceptance means the date of signing theContract Agreement.

1.1.1.4 "Letter of Tender" means the document entitled letter of tender or letter of bid, which was completed by the Contractor and includes the signed offer to the Employer for the Works.

1.1.1.5 "Specification" means the document entitled specification, as included in the Contract, and any additions and modifications to the specification in accordance with the Contract. Such document specifies the Works.

1.1.1.6 "Drawings" means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) the Employer in accordance with the Contract.

1.1.1.7 "Schedules" means the document(s) entitled schedules, completed by the Contractor and submitted with the Letter of Tender, as included in the Contract. Such document may include the Bill of Quantities, data, lists, and schedules of rates and/or prices.

1.1.1.8 "Tender" means the Letter of Tender and all other documents which the Contractor submitted with the Letter of Tender, as included in the Contract.

1.1.1.9 "Bill of Quantities", "Daywork Schedule" and "Schedule of Payment Currencies" mean the documents so named (if any) which are comprised in the Schedules.

1.1.1.10 "Contract Data" means the pages completed by the Employer entitled contract data which constitute Part A of the ParticularConditions.

1.1.2

Parties and Persons

1.1.2.1 "Party" means the Employer or the Contractor, as the contextrequires.

1.1.2.2 "Employer" means the person named as employer in the Contract Data and the legal successors in title to thisperson.

1.1.2.3 "Contractor" means the person(s) named as contractor in the Letter of Tender accepted by the Employer and the legal successors in title to this person(s).

1.1.2.4 "Engineer" means the person appointed by the Employer to act as the Engineer for the purposes of the Contract and named in the Contract Data, or other person appointed from time to time by the Employer and notified to the Contractor under Sub-Clause 3.4 [Replacement of the Engineer].

1.1.2.5 "Contractor's Representative" means the person named by the Contractor in the Contract or appointed from time to time by the Contractor under Sub-Clause 4.3 [Contractor's Representative], who acts on behalf of the Contractor.

1.1.2.6 "Employer's Personnel" means the Engineer, the assistants referred to in Sub-Clause 3.2 [Delegation by the Engineer] and all other staff, labour and other employees of the Engineer and of the Employer; and any other personnel notified to the Contractor, by the Employer or the Engineer, as Employer's Personnel.

1.1.2.7 "Contractor's Personnel" means the Contractor's Representative and all personnel whom the Contractor utilises on Site, who may include the staff, labour and other employees of the Contractor and of each Subcontractor; and any other personnel assisting the Contractor in the execution of the Works.

1.1.2.8 "Subcontractor" means any person named in the Contract as a subcontractor, or any person appointed as a subcontractor, for a part of the Works; and the legal successors in title to each of these persons.

1.1.2.9 "DB" means the person or three persons appointed under Sub-Clause 20.2 [Appointment of the Dispute Board] or Sub-Clause 20.3 [Failure to Agree on the Composition of the Dispute Board].

1.1.2.10 "FIDIC" means the Fédération Internationale des Ingénieurs-Conseils, the international federation of consulting engineers.

1.1.2.11 "Bank" means the financing institution (if any) named in the Contract Data.

1.1.2.12 "Borrower" means the person (if any) named as the borrower in the Contract Data.

1.1.3
Dates, Tests, Periods

and Completion

1.1.3.1 "Base Date" means the date 28 days prior to the latest date for submission and completion of the Tender.

1.1.3.2 "Commencement Date" means the date notified under Sub-Clause 8.1 [Commencement of Works].

1.1.3.3 "Time for Completion" means the time for completing the Works or a Section (as the case may be) under Sub-Clause 8.2 [Time for Completion], as stated in the Contract

Data (with any extension under Sub-Clause 8.4 [Extension of Time for Completion]), calculated from the Commencement Date.

1.1.3.4 "Tests on Completion" means the tests which are specified in the Contract or agreed by both Parties or instructed as a Variation, and which are carried out under Clause 9 [Tests on Completion] before the Works or a Section (as the case may be) are taken over by the Employer.

1.1.3.5 "Taking-Over Certificate" means a certificate issued under Clause 10 [Employer's Taking Over].

1.1.3.6 "Tests after Completion" means the tests (if any) which are specified in the Contract and which are carried out in accordance with the Specification after the Works or a Section (as the case may be) are taken over by the Employer.

1.1.3.7 "Defects Notification Period" means the period for notifying defects in the Works or a Section (as the case may be) under Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects], which extends over twelve months except if otherwise stated in the Contract Data (with any extension under Sub-Clause 11.3 [Extension of Defects Notification Period]), calculated from the date on which the Works or Section is completed as certified under Sub-Clause 10.1 [Taking Over of the Works and Sections].

1.1.3.8 "Performance Certificate" means the certificate issued under Sub-Clause 11.9 [Performance Certificate].

1.1.3.9 "day" means a calendar day and "year" means 365 days.

1.1.4
Money and Payments

1.1.4.1 "Accepted Contract Amount" means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.

1.1.4.2 "Contract Price" means the price defined in Sub-Clause 14.1 [The Contract Price], and includes adjustments in accordance with the Contract.

1.1.4.3 "Cost" means all expenditure reasonably incurred (or to be incurred) by the Contractor, whether on or off the Site, including overhead and similar charges, but does not include profit.

1.1.4.4 "Final Payment Certificate" means the payment certificate issued under Sub-Clause 14.13 [Issue of Final Payment Certificate].

1.1.4.5 "Final Statement" means the statement defined in Sub-Clause 14.11 [Application for Final Payment Certificate].

1.1.4.6 "Foreign Currency" means a currency in which part (or all) of the Contract Price is payable, but not the Local Currency.

1.1.4.7 "Interim Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and Payment], other than the Final Payment Certificate.

1.1.4.8 "Local Currency" means the currency of the Country.

1.1.4.9 "Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and Payment].

1.1.4.10 "Provisional Sum" means a sum (if any) which is specified in the Contract as a provisional sum, for the execution of any part of the Works or for the supply of Plant, Materials or services under Sub-Clause 13.5 [Provisional Sums].

1.1.4.11 "Retention Money" means the accumulated retention moneys which the Employer retains under Sub-Clause 14.3 [Application for Interim Payment Certificates] and pays under Sub-Clause 14.9 [Payment of Retention Money].

1.1.4.12 "Statement" means a statement submitted by the Contractor as part of an application, under Clause 14 [Contract Price and Payment], for a payment certificate.

1.1.5 Works and Goods

1.1.5.1 "Contractor's Equipment" means all apparatus, machinery, vehicles and other things required for the execution and completion of the Works and the remedying of any defects. However, Contractor's Equipment excludes Temporary Works, Employer's Equipment (if any), Plant, Materials and any other things intended to form or forming part of the Permanent Works.

1.1.5.2 "Goods" means Contractor's Equipment, Materials, Plant and Temporary Works, or any of them as appropriate.

1.1.5.3 "Materials" means things of all kinds (other than Plant) intended to form or forming part of the Permanent Works, including the supply-only materials (if any) to be supplied by the Contractor under the Contract.

1.1.5.4 "Permanent Works" means the permanent works to be executed by the Contractor under the Contract.

1.1.5.5 "Plant" means the apparatus, machinery and vehicles intended to form or forming part of the Permanent Works, including vehicles purchased for the Employer and relating to the construction or operation of the Works.

1.1.5.6 "Section" means a part of the Works specified in the Contract Data as a Section (if any).

1.1.5.7 "Temporary Works" means all temporary works of every kind (other than Contractor's Equipment) required on Site for the execution and completion of the Permanent Works and the remedying of any defects.

1.1.5.8 "Works" mean the Permanent Works and the Temporary Works, or either of them as appropriate.

1.1.6 Other Definitions

1.1.6.1 "Contractor's Documents" means the calculations, computer programs and other software, drawings, manuals, models and other documents of a technical nature (if any) supplied by the Contractor under the Contract.

1.1.6.2 "Country" means the country in which the Site (or most of it) is located, where the Permanent Works are to be executed.

1.1.6.3 "Employer's Equipment" means the apparatus, machinery and vehicles (if any) made available by the Employer for the use of the Contractor in the execution of the Works, as stated in the Specification; but does not include Plant which has not been taken over by the Employer.

1.1.6.4 "Force Majeure" is defined in Clause 19 [Force Majeure].

1.1.6.5 "Laws" means all national (or state) legislation, statutes, ordinances and other laws, and regulations and by-laws of any legally constituted public authority.

1.1.6.6 "Performance Security" means the security (or securities, if any) under Sub-Clause 4.2 [Performance Security].

1.1.6.7 "Site" means the places where the Permanent Works are to be executed, including storage and working areas, and to which Plant and Materials are to be delivered, and any other places as may be specified in the Contract as forming part of the Site..

1.1.6.8 "Unforeseeable" means not reasonably foreseeable by an experienced contractor by the Base Date.

1.1.6.9 "Variation" means any change to the Works, which is instructed or approved as a variation under Clause 13 [Variations and Adjustments].

1.2

Interpretation

In the Contract, except where the context requires otherwise:

(a) words indicating one gender include all genders;
(b) words indicating the singular also include the plural and words indicating the plural also include the singular;
(c) provisions including the word "agree", "agreed" or "agreement" require the agreement to be record in writing;
(d) "written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record; and
(e) the word "tender" is synonymous with "bid", and "tenderer" with "bidder" and the words "tender documents" with "bidding documents".

The marginal words and other headings shall not be taken into consideration in the interpretation of these Conditions.

In these Conditions, provisions including the expression "Cost plus profit" require this profit to be one-twentieth (5%) of this Cost unless otherwise indicated in the Contract Data.

1.3

Communications

Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices, requests and discharges, these communications
shall be:

(a) in writing and delivered by hand (against receipt), sent by mail or courier, or transmitted using any of the agreed systems of electronic transmission as stated in the Contract Data; and
(b) delivered, sent or transmitted to the address for the recipient's communications as stated in the Contract Data. However:

(i) if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and

(ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the address from which the request was issued.

1.4
Law and Language

Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to a Party, by the other Party or the Engineer, a copy shall be sent to the Engineer or the other Party, as the case may be.

The Contract shall be governed by the law of the country or other jurisdiction stated in the Contract Data.

1.5
Priority of Documents

The ruling language of the Contract shall be that stated in the Contract Data.

The language for communications shall be that stated in the Contract Data. If no language is stated there, the language for communications shall be the ruling language of the Contract.

The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:

(a) the Contract Agreement (if any),
(b) the Letter of Acceptance,
(c) the Tender,
(d) the Particular Conditions - Part A,
(e) the Particular Conditions - Part B,
(f) these General Conditions,
(g) the Specification,
(h) the Drawings, and
(i) the Schedules and any other documents forming part of the Contract.

If an ambiguity or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction.

TABLE OF CONTENTS

PART II - SPECIAL/PARTICULAR CONDITIONS OF CONTRACT

Clause	Title
1.1	Definitions
3.1	Engineer's Duties and Authority
4.3	Contractor's Representative
6.10	Records of Contractor's Personnel and equipment
7.9	Use of Pakistani Materials and Services
8.1	Commencement of Works
8.11	Prolonged Suspension
8.3	Programme
13.1	Right to vary
13.3	Variation procedure
13.8	Adjustment for changes in cost
14.1	Contract Price
14.2	Advance Payment
14.5	Plants and Materials intended for Works
14.8	Delayed Payments
15.2	Termination by Employer/Procuring Agency
15.6	Corrupt and fraudulent Practices (Integrity Pact).
16.4	Payment on Termination
17.3	Employer's/Procuring Agency's Risks
18.1	General Requirements for Insurance
19.6	Optional Termination, Payment and release by the Employer
20.1	Contractor's Claims
20.2	Appointment of the Dispute Board / Notification of the Committee
20.3	Failure to agree on the composition of the Dispute Board.
*20.*4	Obtaining Dispute Board's Decision
20.5	Amicable Settlement.
20.6	Arbitration
20.7	Failure to comply with Dispute Board"s Decision
20.8	Expiry of Dispute Board's Appointment

APPENDIX.

Annex General Conditions of Dispute Board Agreement

PROCEDURAL RULES

PART II - SPECIAL /PARTICULAR CONDITIONS OF CONTRACT

1.1 Definitions

1.1.1.4 "Form of Bid" is synonymous with "Letter of Tender".

1.1.1.5 "Bid" is synonymous with "Tender".

1.1.1.10 "Bidding" is synonymous with "contract".

The following paragraph is added:

1.1.1.11"Programme" means the programme to be submitted by the contractor in accordance with Sub-Clause 8.3 and any approved revisions thereto.

1.12.2 "Employer" is synonymous with "Procuring Agency"

1.1.2.9 "DB" is synonymous with "Committee".

1.1.3.1 Replace 28 days by 7 days in LCB and 15 days in ICB..

1.1.3.7 "Defects notification Period" is synonymous with "Defects liability Period".

1.15 **Inspections and Audit by the Bank**
Deleted
Procuring Agency can retain this clause with or without changes, in case of contracts under Project, Bank and donor's programme.

3.1 Engineer's Duties and Authority.

The following paragraph is added after duties:

Procuring agency shall ensure that the Engineer's Representative/Staff is a professional engineer as defined in the Pakistan Engineering Council Act 1975 (V of 1976)

4.3 Contractor's Representative

The following text is to be added after last line:

The contractor's authorised representative and his other professional engineers working at site shall register themselves with the Pakistan Engineering Council.

6.10 Records of Contractor's Personnel and Equipment

The following paragraph is added:

The Contractor shall, upon request by the Engineer at any time in relation to any item

of hired Contractor‟s Equipment, forthwith notify the Engineer in writing the name and address of the Owner of the equipment and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements set forth above.

The following sub-clause 7.9 is added in (GCC):

7.9 Use of Pakistani Materials and Services

The contractor shall, so far as may be consistent with the contract, make the maximum use of materials, supplies, plant and equipment indigenous to or produced or fabricated in Pakistan and services, available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

8.1 Commencement of Works

The last para is deleted and substituted with the following:

The contractor shall commence the works on site within the period named in Appendix-A to Bid from the date of receipt by him from the Engineer of a written Notice to Commence. Thereafter, the contractor shall proceed with the works with due expedition and without delay.

8.11 Prolonged Suspension
Replace 84 days by 120 days.

8.3 Programme
The following text is to be added after [Commencement of Works]
The programme shall be submitted in the either form of:

a) Bar Chart identifying the critical activities.
b) Critical Path Method (CPM) identifying the critical path/activities.
c) Program Evaluation and Review Techniques (PERT).
(Procuring Agency to select appropriate one)

13.1 Right to vary
In the last line of Para, after the word “Variation", the word “in writing” is added.

13.3 Variation procedure
In the tenth line, after the words “as soon as practicable” following is added:
“and within a period not exceeding one-eighth of the completion time”

13.8 Adjustment for changes in cost
This clause will be applicable for Foreign funded Project/ Schemes or ICB Contracts (locally & foreign funded) only.

The following provision is added for Local funded Project/ Schemes/National Competitive Bidding Contracts:

The amounts payable to the Contractor, pursuant to Sub-Clause 14.6, shall be adjusted in respect of the rise or fall in the cost of materials only, and will be paid to the contractor on those items mentioned in the **Appendix –C (B)**.

Similarly reduction in the cost of these materials will also be recovered from the contractor accordingly

14.1 The Contract Price
Sub-para (d) is deleted.

14.2 Advance Payment

The Text is deleted and replaced with following:

Advance Payment/Mobilization Advance shall be made available to the Contractor by the procuring agency on following conditions:

Mobilization Advance/Advance Payment

(i) Mobilization advance up to 10 % of the Contract Price may be paid by the procuring agency to the Contractor on the works costing Rs2.5 million or above on following conditions:

a. on submission by the Contractor of a mobilization advance guarantee for the full amount of the advance in the specified form, from a Scheduled Bank in Pakistan, acceptable to the procuring agency;

b. [XXX][1]

(ii) This Advance [XXX] shall be recovered in 5 equal installments from the 5 R.A bills and in case the number of bills is less than 5 then 1/5 of the advance [XXX] shall be recovered from each bill and the balance [XXX] be recovered from the final bill. It may be insured that there is sufficient amount in the final bill to enable recovery of the Mobilization Advance.

14.5 Plants and Materials intended for Works

Add the following paragraph as sub-clause 14.5 (d) for Secured Advance on non – perishable materials and sub-clauses (a), (b) and (c) will be applicable for plants only :-

(I) The Contractor shall be entitled to receive from the procuring agency Secured Advance against an INDENTURE BOND in Public Works Account Form No.31 (Fin. R. Form No. 2) acceptable to the procuring agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the site but not yet incorporated in the Permanent Works provided that:

(i) The materials are in accordance with the specifications for the permanent works;
(ii) Such materials have been delivered to the site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer/Assistant Engineer but at the risk and cost of the Contractor;

(iii) The Contractor's records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;

(iv) The Contractor shall submit with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore;

[1] Deleted in the light of amendment in Sindh Financial Rules, vide Finance Department's Notification dated 27th April, 2017 and approval from SPPRA Board in its 30th Meeting held on 9th August, 2017.

(v) Ownership of such materials shall be deemed to vest in the procuring agency and these materials shall not be removed from the site or otherwise disposed of without written permission of the procuring agency;

(vi) The sum payable for such materials on site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of stands other materials;

(vii) Secured Advance shall not be allowed unless and until the previous advance, if any, is fully recovered;

(viii) Detailed account of advances must be kept in part II of running account bill or a separate statement; and

(ix) Secured Advance may be permitted only against materials/quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and in no case for full quantities of materials for the entire work/contract.

(II) Recovery of Secured Advance:

Secured Advance paid on non-perishable materials to the Contractor under the above provisions shall be effected from the monthly payments on actual consumption basis, but not later than period specified in the rules not more than three months (even if unutilized);

14.8 Delayed Payment

Second Para is replaced with following text:

In the event of the failure of the Procuring Agency to make the payment within the time stated, the procuring agency shall pay to the contractor in case of **ICB contracts only,** the compensation at rate of KIBOR+2% per annum in local currency and Libor+1% for foreign currency, upon all sums to be paid from the date of which the same would have been paid.

15.2 Termination by Employer

The following Para is added at the end of the sub-clause:

Provided further, that in addition to the action taken by the procuring agency against the Contractor under this Clause, the procuring agency may also refer the case of default of the Contractor to Pakistan Engineering Council for punitive action under the Construction and Operation of Engineering Works Bye-Laws 1987, as amended from time to time.

15.6 Corrupt and fraudulent Practices.

The following text is to be added as 3rd paragraph:

Successful Contractor has to provide Integrity Pact (for contracts worth Rs.10.0 million and above).

If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the procuring agency shall be entitled to:

(a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Subcontractors, agents or servants;

(b) terminate the Contract; and

(c) recover from the Contractor any loss or damage to the procuring agency as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents or servants.

The termination under sub-para (b) of this Sub-Clause shall proceed in the manner prescribed under sub-clauses **15.2** & 15.5 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the procuring agency under Sub-Para (a) and (c) of this Sub-Clause.

16.4 Payment on Termination

Sub-paragraph (c) is deleted.

17.3 Employer's/ Procuring Agency's Risks

Sub-Clause 17.3 (h) is deleted.

The following text is added in Clause 18.1 (GCC):

18.1 General Requirements for Insurance

The contractor shall be obliged to place all insurances relating to the contract (including, but not limited to, the insurances referred to in Clauses 18.1,18.2,18.3,18.4) with Insurance Company having at least AA rating from PACRA/JCR in favour of the Employer//Procuring Agency valid for a period 28 days after beyond the Bid Validity date.
Costs of such insurances shall be borne by the contractor.

19.6 Optional Termination, Payment and release by the Employer

Sub-clauses (c), (d) and (e) are deleted.

20.6 Arbitration

Text will be replaced as under; Any dispute in respect of which:

(a) the decision, of the Dispute Board has not become final and binding pursuant to sub- clause 20.2, and

(b) amicable settlement has not been reached within the period stated in sub-clause 20.5, shall be finally settled, under the provisions of the Arbitration Act, 1940 as amended or any statutory modification/Rules of Conciliation And Arbitration PEC Islamabad or re-enactment thereof for the time being in force. The place of arbitration shall be Karachi, in Sindh Province.

PART II –SPECIAL/PARTICULAR CONDITIONS OF CONTRACT

INDEX	CLAUSE
Adjustment for changes in cost	13.8
Advance Payment	14.2
Amicable Settlement.	20.5
Appointment of the Dispute Board / Notification of the Committee20.2 Arbitration	20.6
Commencement of Works	8.1
Contractor's Representative	4.3
Contractor's Claims	20.1
Contract Price	14.1
Corrupt and fraudulent Practices (Integrity Pact).	15.6
Definitions	1.1
Delayed Payments	14.8
Employer's/Procuring Agency's Risks	17.3
Engineer's Duties and Authority	3.1
Expiry of Dispute Board's Appointment	20.8
Failure to agree on the composition of the Dispute Board.	20.3
Failure to comply with Dispute Board's Decision	20.7
General Conditions of Dispute Board Agreement	**A**ppendix General Requirements for Insurance 18.1
Optional Termination, Payment and release by the Employer	19.6
Obtaining Dispute Board's Decision	20.4
Payment on Termination	15.6
Plants and Materials intended for Works	14.5
PROCEDURAL RULES	Annex
Prolonged Suspension	8.11
Programme	8.3
Records of Contractor's Personnel and equipment	6.10
Right to vary	13.1
Termination by Employer/Procuring Agency	15.2
Use of Pakistani Materials and Services	7.9
Variation procedure	13.3

List of Approved Manufacturers

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

S. No.	Description	Make / Brand
1	Western Type W.C. (S-Trap Type)	Porta Make.
2	Eastern Type W.C. (Orrisa Type)	Porta Make.
3	Lavatory Wall Hung Type	Porta Make.
4	Lavatory Counter Type	Porta Make.
5	Kitchen Bowl	Asia Make.
6	Toilet Paper Holder	Master Make.
7	Pillar Cock	Master Make.
8	Double Bibcock with Toilet Shower	Master Make.
9	Bibcock / Long Neck Bib Cock	Master Make.
10	T-Stop Cock	Master Make.
11	Towel Rail, Hook	Master Make.
12	Bottle Trap	Master Make.
13	Water Pumps	Lowara Make.
14	Polypropylene Pipes & Fittings PN-20	Polydex - Dadex Make
15	uPVC Pipes & Fittings 'B' Type (for internal push fit)	Nikasi - Dadex Make
16	uPVC Pipe & Fittings 'D' Type (for external main sewerage)	Dadex Make
17	GI Pipe Medium Weight	IIL Make
18	GI Pipe Fittings	Imported China H.E. Brand
19	Valves and Strainers	KITZ (Japan) Make
20	Clean-out Stainless Steel	Alpine Make
21	Floor Drain Stainless Steel	Alpine Make
22	Manhole Frame & Cover (CI)	Alpine Make
23	Gully Trap Chamber	uPVC
24	Anchor / Fasteners	Fischer / Mango Make
25	Teflon Tape	Imported
26	S.S Pipe Sch.40	Imported

DRAWINGS

ARCHITECTURAL DRAWINGS

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

DOW UNIVERSITY OF HEALTH SCIENCES,
OJHA CAMPUS, KARACHI



TENDER DRAWINGS

APRIL, 2025

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

DOW UNIVERSITY OF HEALTH SCIENCES,
OJHA CAMPUS, KARACHI

ARCHITECTURAL DRAWINGS
TENDER DRAWINGS
APRIL, 2025

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

DOW UNIVERSITY OF HEALTH SCIENCES,
OJHA CAMPUS, KARACHI

TITLE OF SHEET

LIST OF DRAWINGS AND GENERAL NOTES

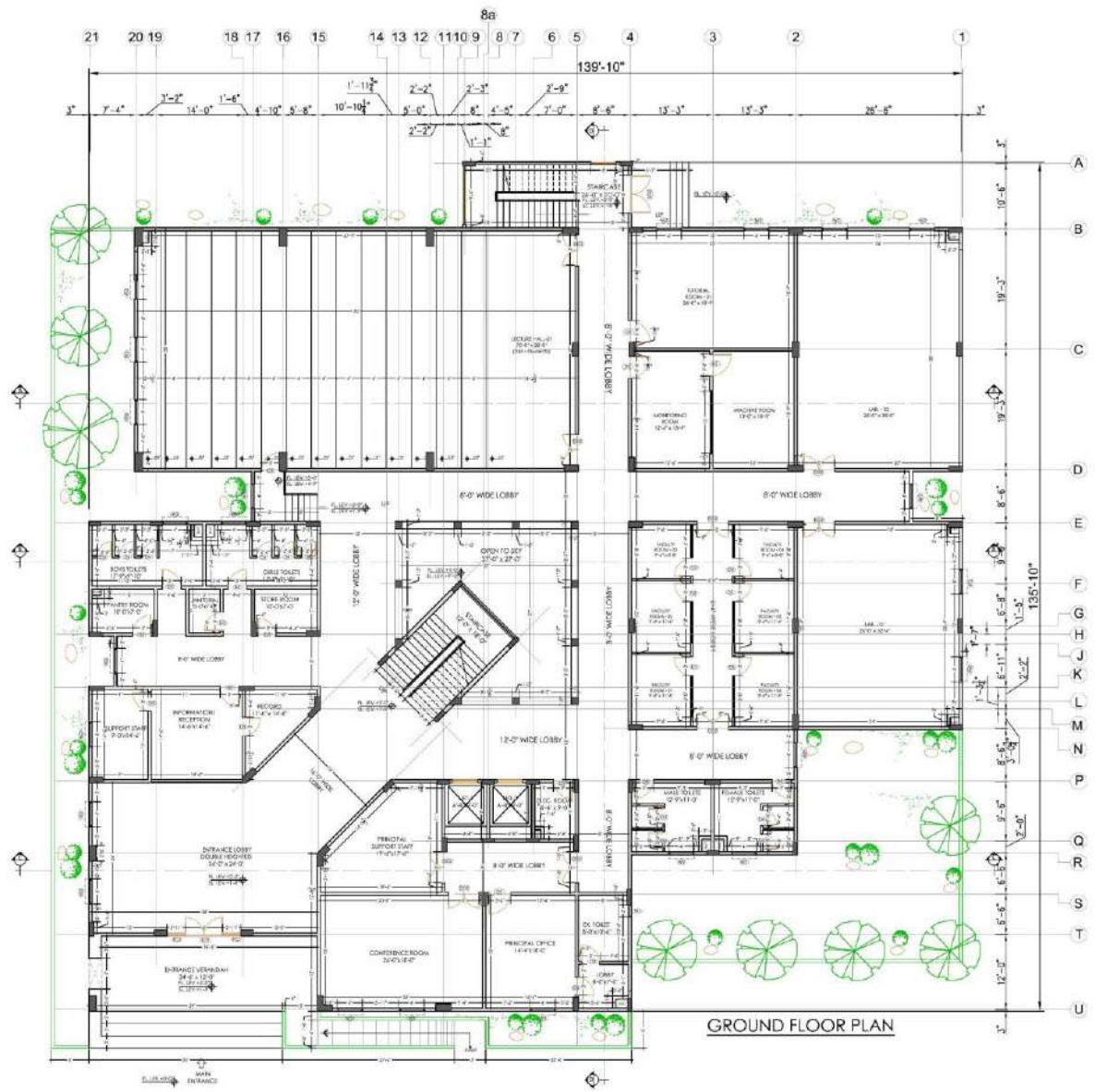
LIST OF DRAWINGS (ARCHITECTURAL)

1. Working Layout Plan
   - A-001 MASTER PLAN
   - A-002 GROUND FLOOR PLAN
   - A-003 FIRST FLOOR PLAN
   - A-004 SECOND FLOOR PLAN
   - A-005 ROOF PLAN
2. Furniture Layout Plan
   - A-006 GROUND FLOOR PLAN
   - A-007 FIRST FLOOR PLAN
   - A-008 SECOND FLOOR PLAN
3. Flooring Layout Plan
   - A-09 GROUND FLOOR PLAN
   - A-010 FIRST FLOOR PLAN
   - A-011 SECOND FLOOR PLAN
4. Reflected Ceilig Plan
   - A-012 GROUND FLOOR PLAN
   - A-013 FIRST FLOOR PLAN
   - A-014 SECOND FLOOR PLAN
5. Elevations
   - A-015 ELEVATION - I
   - A-016 ELEVATION - II
6. Sections
   - A-017 SECTIONS - I
   - A-018 SECTIONS - II
7. Doors & Windows
   - A-019 DOOR & WINDOW - I
   - A-020 DOOR & WINDOW - II
8. Staircase Details
   - A-021 STAIRCASE - DETAIL I
   - A-022 STAIRCASE - DETAIL II
9. Bath Room Details
   - A-023 MALE/ FEMALE TOILET DETAIL
   - A-024 BOYS TOILET DETAIL
   - A-025 GIRLS TOILET DETAIL
   - A-026 EX. TOILET DETAIL
10. Other Details
    - A-027 DETAILS

GENERAL NOTES

This Package contains Basic Architectural Drawings for working and construction. All structural, electrical and plumbing Design drawings are developed on the basis of these drawings. Internal finishing materials like tiles, door & windows and paint etc are mentioned in the Drawings. Contractor must produce shop drawings and furnish samples and get them approved from project manager/ consultant prior to execution at site.

1. All levels noted are structural levels unless otherwise mentioned.
2. Do not scale the drawings, follow written instructions.
3. The drawings shall not be used for construction purpose until stamped "FOR CONSTRUCTION" and signed by the architect.
4. If any discrepancy is found on drawing the consultant shall be informed prior to starting the work on site.
5. All materials used shall be in strict accordance with the specifications.
6. Submit samples of materials to the consultant for approval prior to use on site.
7. Mock-up of every finished activity would be prepared for the approval of the consultant prior to final execution of the work.
8. Expanded metal lath (Mesh) to be used at all internal and external joints between masonry and concrete members (Columns, Beams and Slabs).
9. 6mm Ø G. I. Z-ties, as detailed shall be placed at 600mm (24") c/c horizontally and at every third course in cavity wall.
10. Masonry around ducts to be executed after plumbing / mechanical installations.
11. Floor finishes to all external paved areas to be laid in a slope of 1:200 for rain water drainage unless specified otherwise.
12. Floor finishes in toilets to be laid in slope towards floor drains .
13. Dimensions for windows, as shown on drawings, are all opening sizes.
14. All drawings must be read in conjunction with relevant engineering drawings.
15. Where a discrepancy is noted between basic and detailed drawings, detailed drawing shall govern.
16. All dimensions are shown in (feet & inches).
17. All dimensions to be confirmed at site prior to construction.
18. All masonry work is of block masonry of 6" thick or as mentioned in the drawings.



GENERAL NOTES:

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REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
UHS-2314/F

DRAWING TITLE:
WORKING LAYOUT PLAN - GF

DRAWING STATUS:
TENDER DRAWING

DRAWN BY:
Zaki Hasan

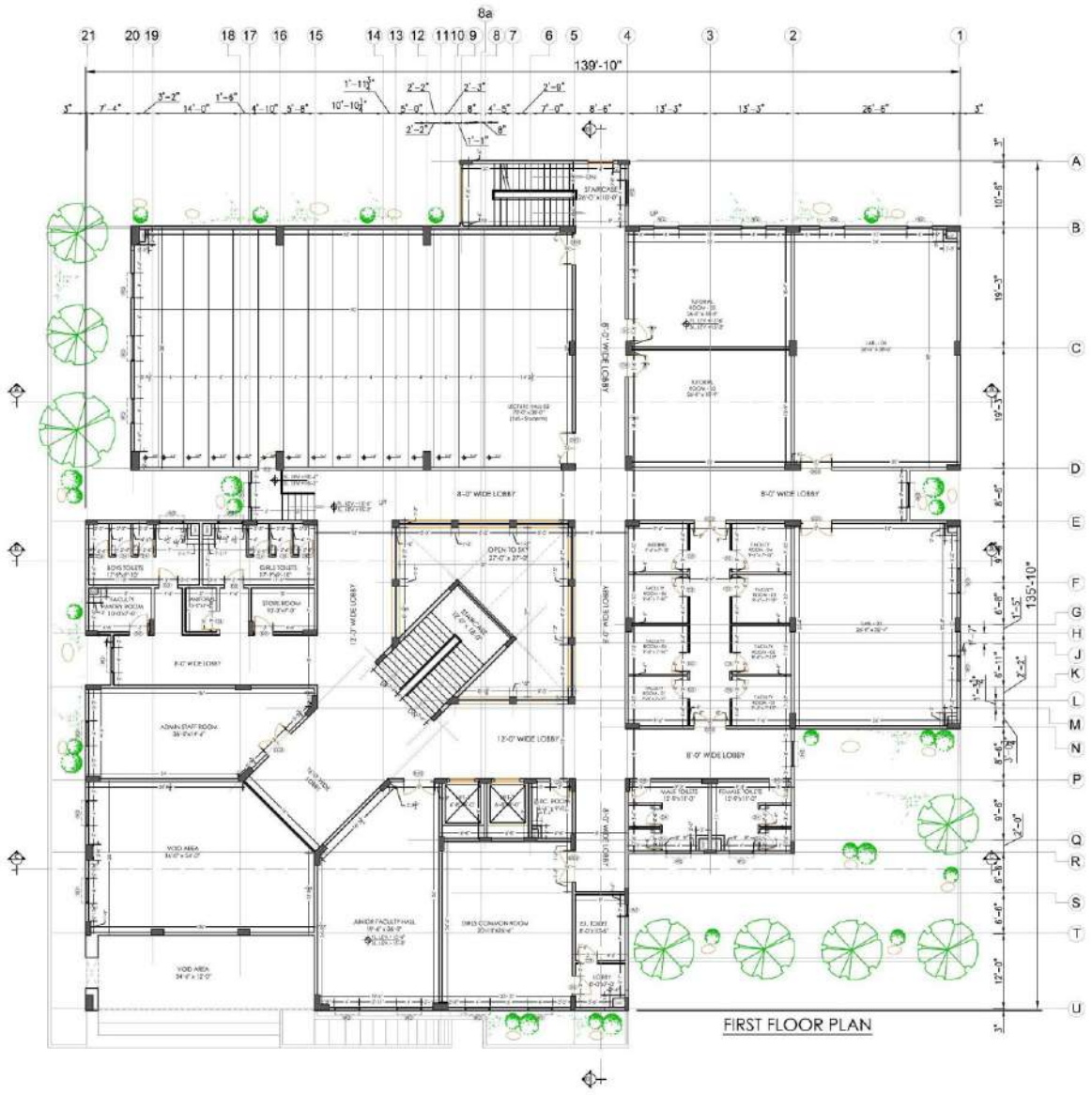
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DATE:
May, 2023

CHECKED BY:
Ishrat

DRAWING NO:
A-002

REVISION NO:



FIRST FLOOR PLAN

GENERAL NOTES

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Rev. No.	Date	Description

CLIENT NAME:
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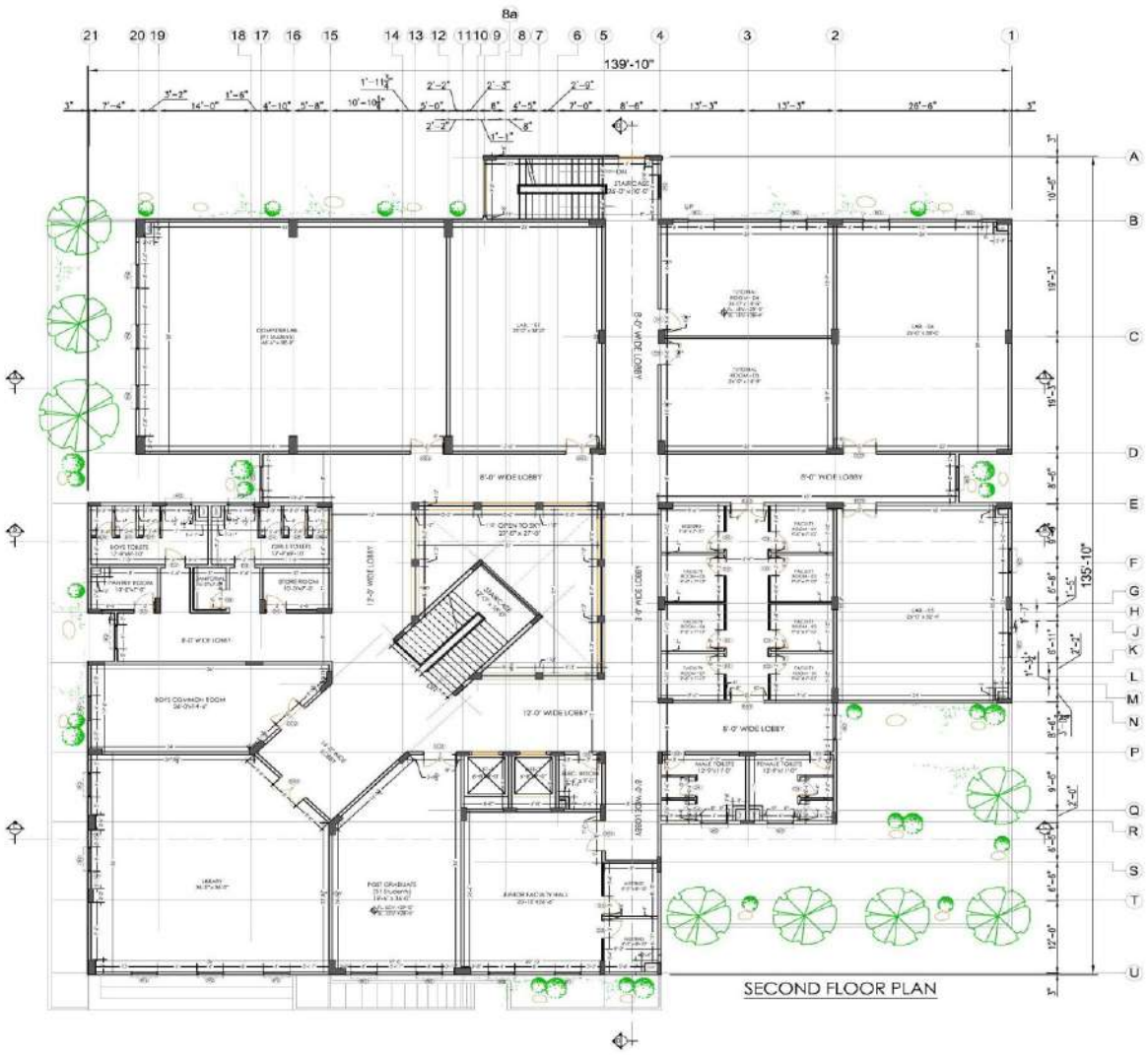
PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-2014/F

DRAWING TITLE:
WORKING LAYOUT PLAN - FF

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DATE: May, 2023	ISSUED BY: Irshad
DRAWING NO: A-003	REVISION NO:



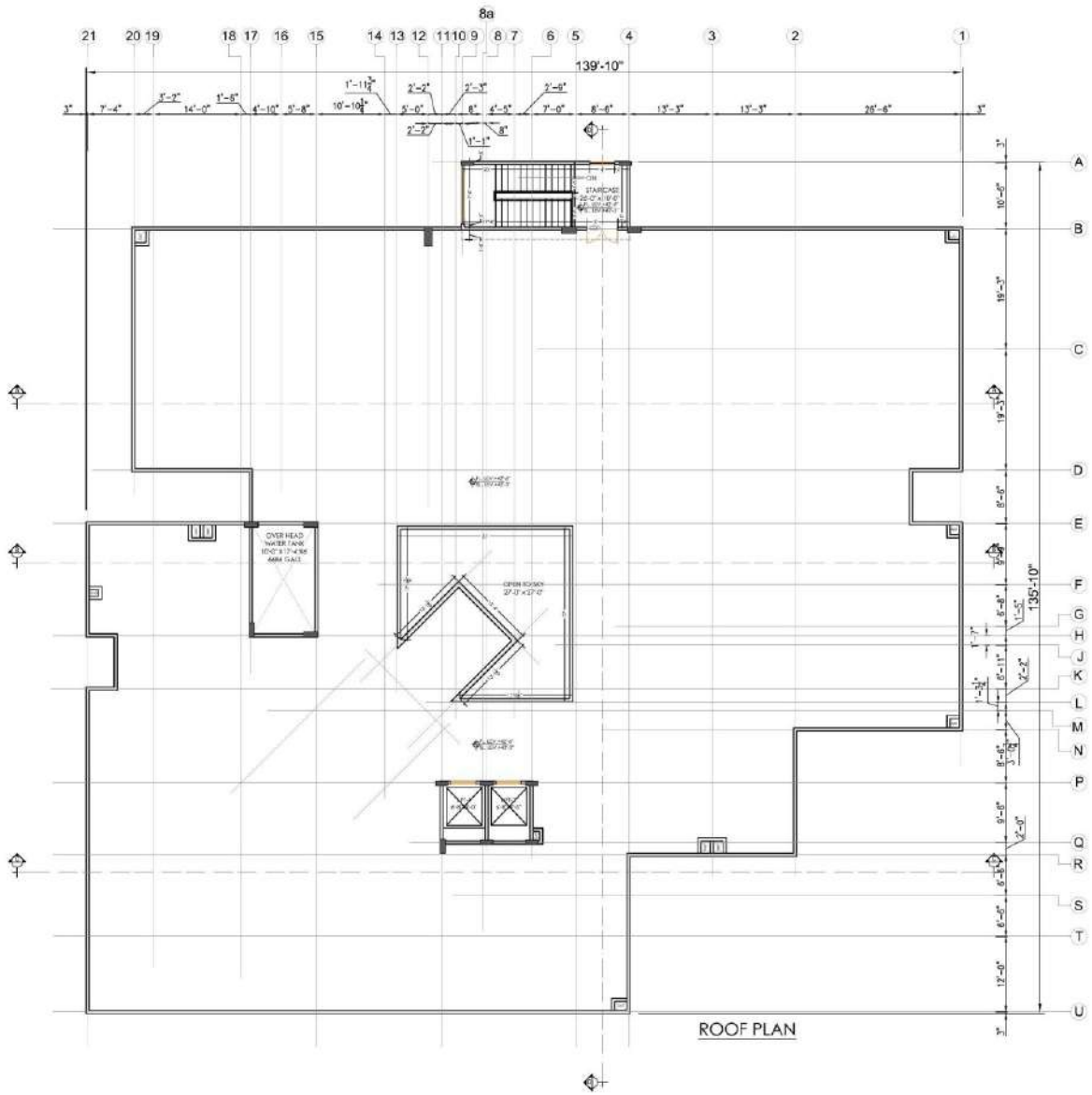
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RKL ARCHITECTS

RKL-DUHS-2314/F



GENERAL NOTES:

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Rev. No.	Date	Description

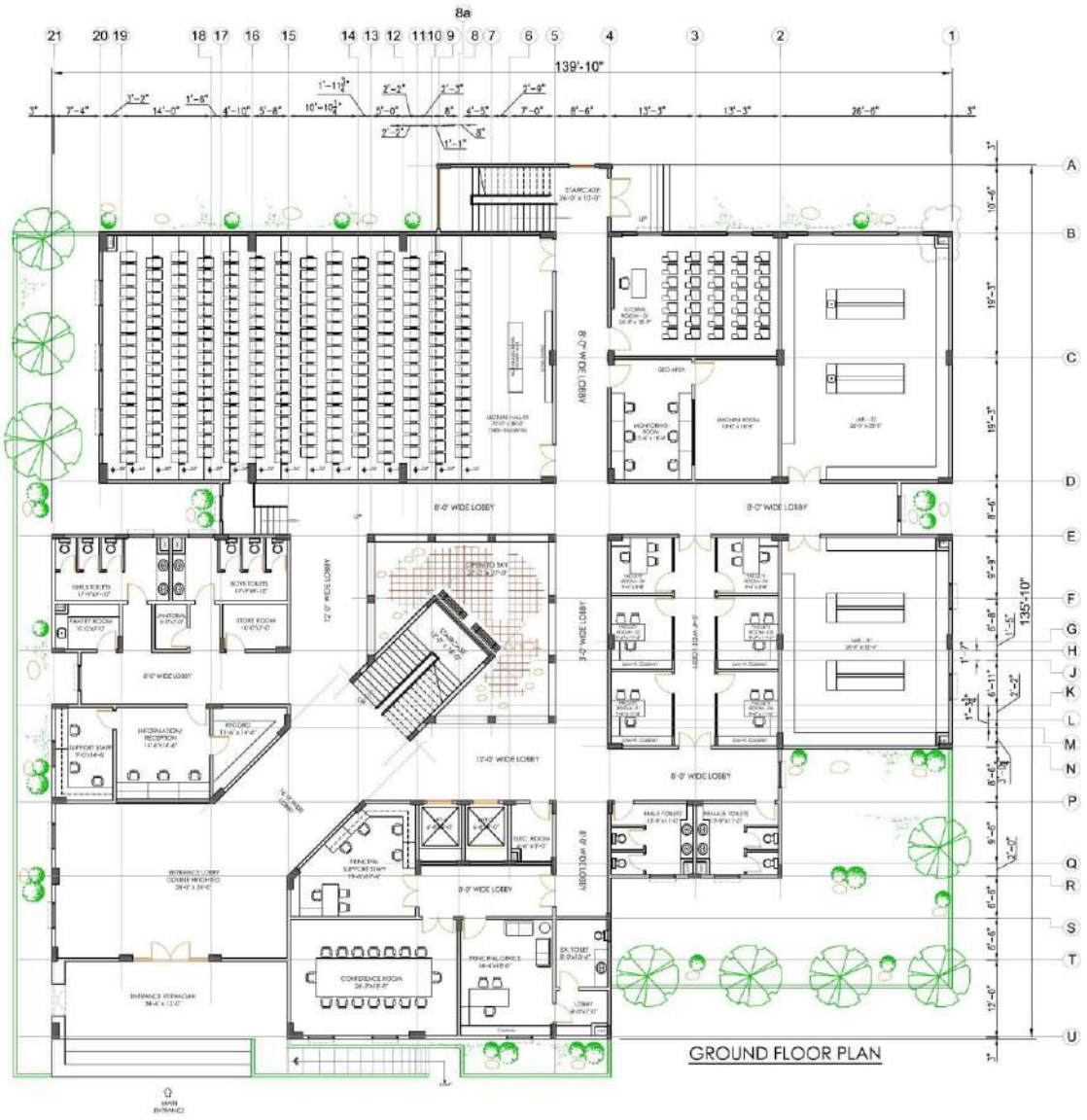
CLIENT NAME:

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PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:	DUHS-2314/F
DRAWING TITLE:	ROOF PLAN
DRAWING STATUS:	TENDER DRAWING
	DRAWN BY: Zaki Hassan
SCALE:	3/32" = 1'-0"
DATE:	May, 2025
DESCRIPT:	RR00
DRAWING NO.	A-003
REVISION NO.:	



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INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

DUHS-231/AP

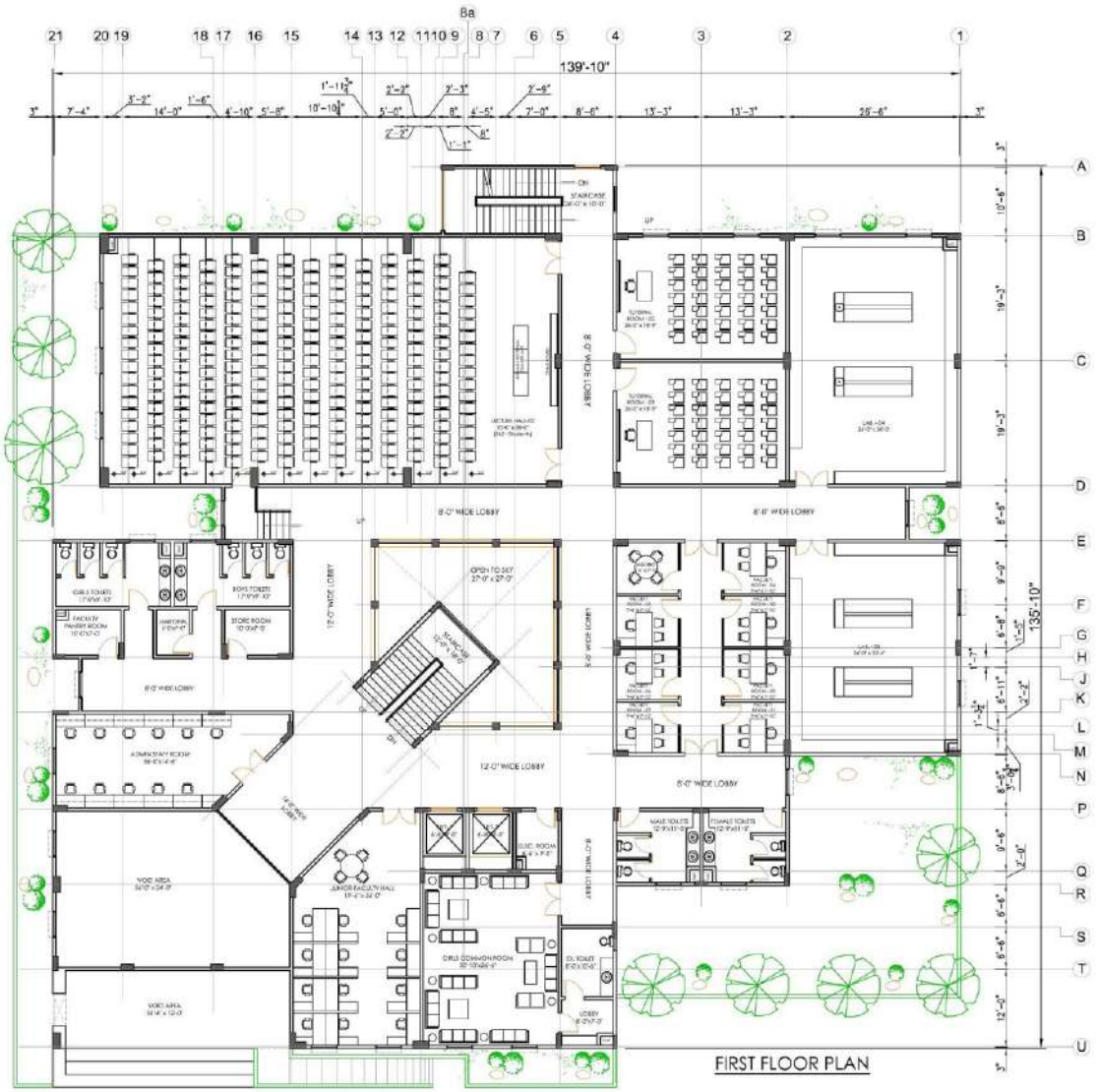
FURNITURE LAYOUT PLAN - GF

TENDER DRAWING

Zaid Hassan

3/32" = 1'-0"

May, 2023



FIRST FLOOR PLAN

GENERAL NOTES:

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REVISION SCHEDULE

Rev. No.	Date	Description

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PROJECT:

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PROJECT NO:

DUHS-231-A/F

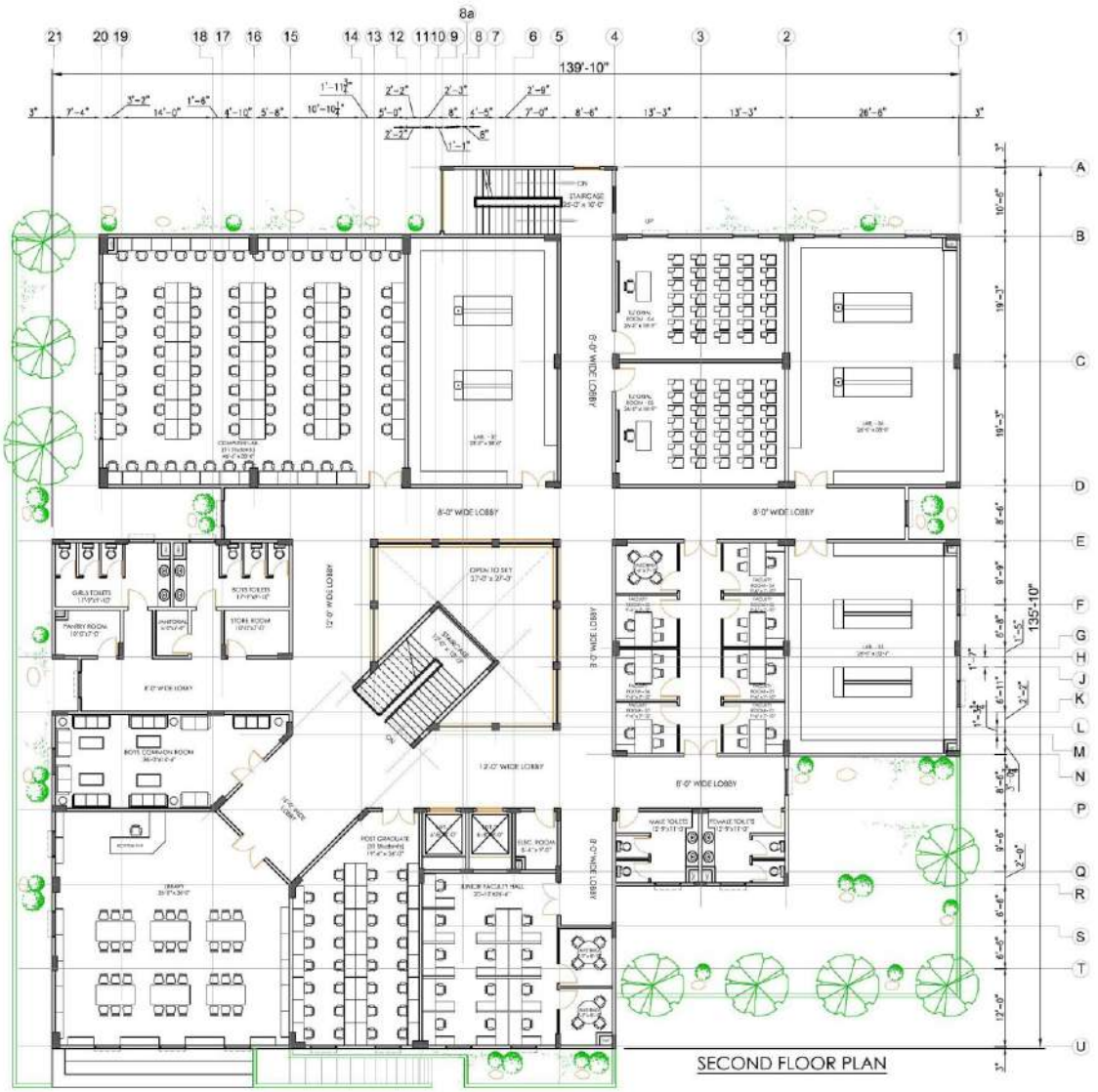
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FURNITURE LAYOUT PLAN - FF

DRAWING STATUS:

TENDER DRAWING

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DATE: May, 2025	ISSUED BY: IMT/DUHS
DRAWING NO: A-001	REVISION NO:



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REVISION SCHEDULE

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PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:

DUHS-2514/F

DRAWING TITLE:

FURNITURE LAYOUT PLAN - SF

DRAWING STATUS:

TENDER DRAWING

DRAWN BY:

Zaki Hassan

SCALE:

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DATE:

May, 2025

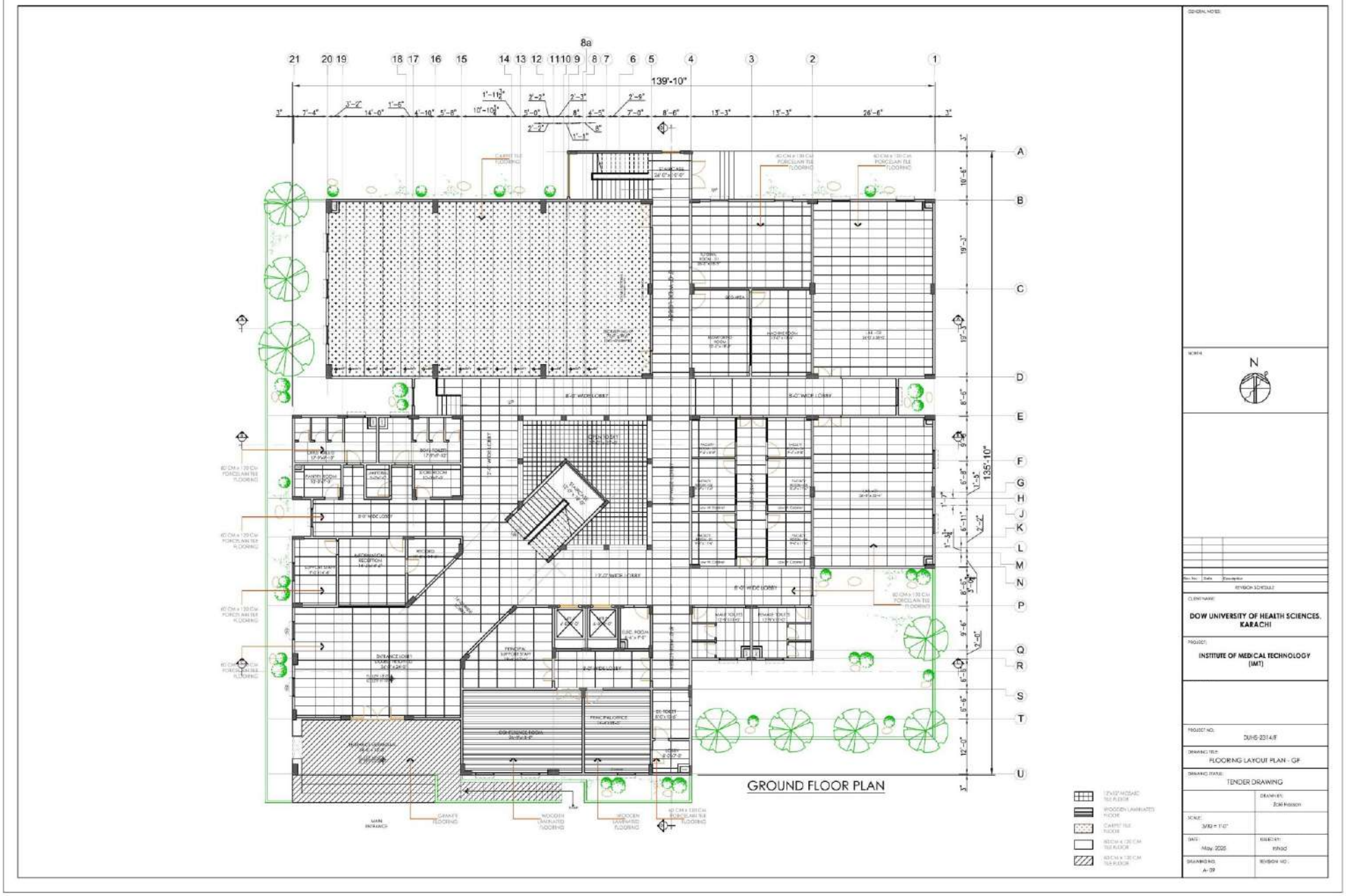
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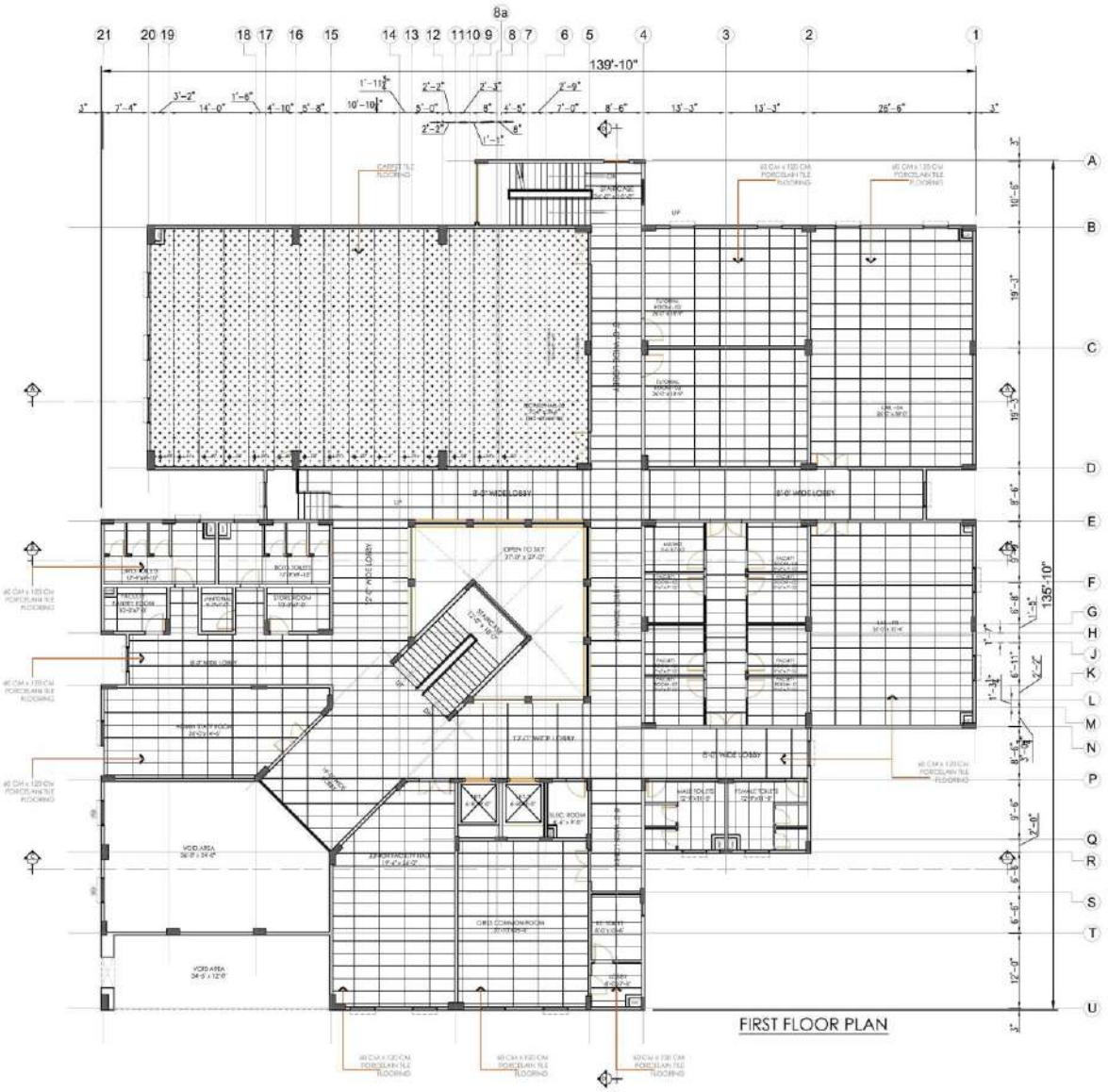
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DRAWING NO.

A-006

REVISION NO.:


GROUND FLOOR PLAN
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)
FLOORING LAYOUT PLAN - GF
TENDER DRAWING
May, 2020
A-09



NORTH

N

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-231 A/T

DRAWING TITLE: FLOORING LAYOUT PLAN - FF

DRAWING STATUS: TENDER DRAWING

DRAWN BY: Zaid Hussain

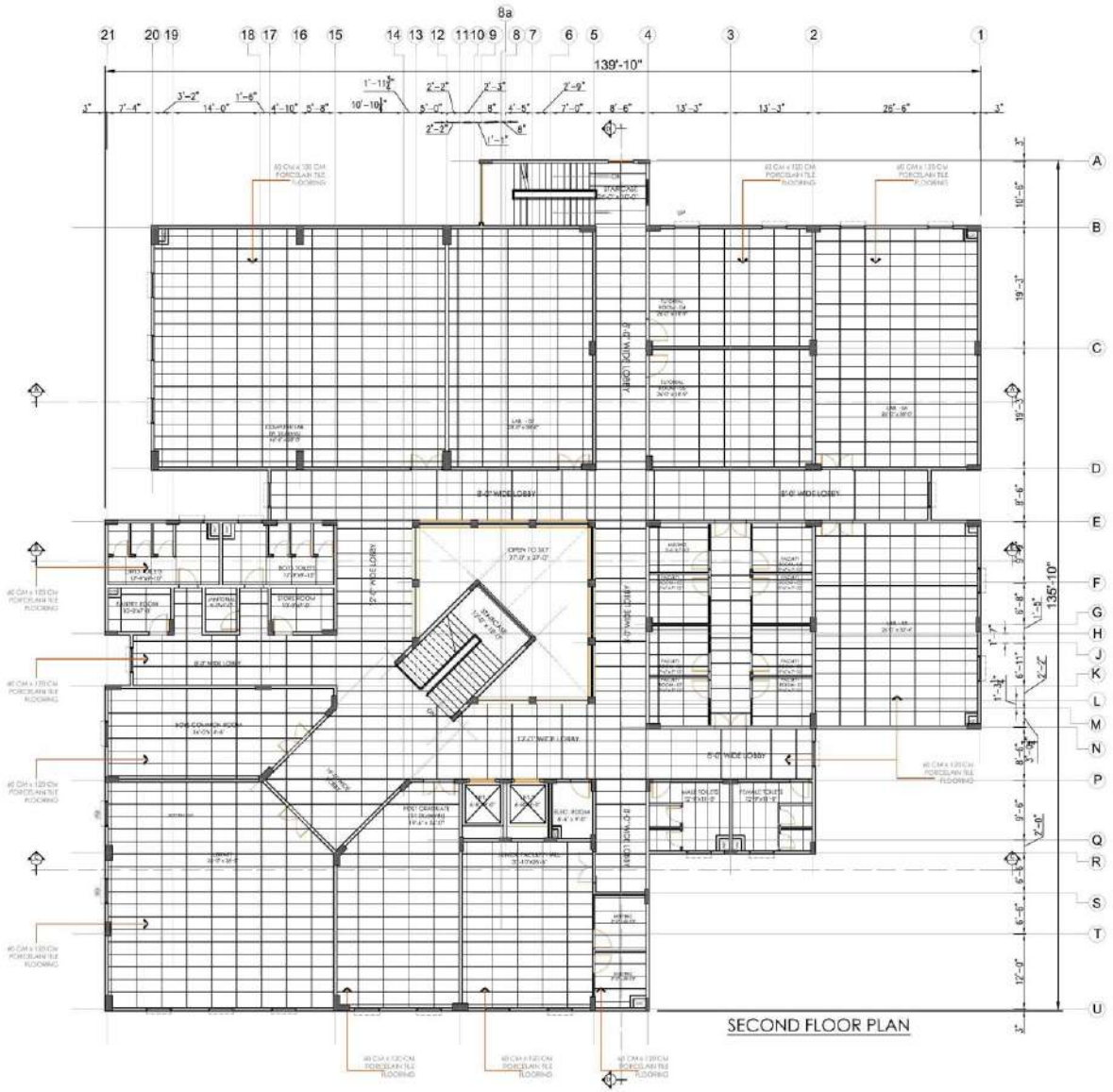
SCALE: 3/32" = 1'-0"

DATE: May, 2023

CHECKED BY: ISHAQ

DRAWING NO.: A-010

REVISION NO.:



NORTH

N

REVISION SCHEDULE

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:

DUHS-231 A/T

DRAWING TITLE:

FLOORING LAYOUT PLAN - SF

DRAWING STATUS:

TENDER DRAWING

DRAWN BY:

Zaid Hussain

SCALE:

3/32" = 1'-0"

CHECKED BY:

ISHAQ

DATE:

MAY, 2023

DRAWING NO.

A-051

REVISION NO.:



NORTH

N

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

DUHS-231 A/T

REFLECTED CEILING PLAN - GF

TENDER DRAWING

1/32" = 1'-0"

May, 2023

A-012



DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

DUHS-231 A/F

REFLECTED CEILING PLAN - FF

TENDER DRAWING

Zaid Hassan

3/32" = 1'-0"

MAY, 2023

A-015



GENERAL NOTES:

NORTH

N

Rev. No.	Date	Description

REVISION SCHEDULE

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

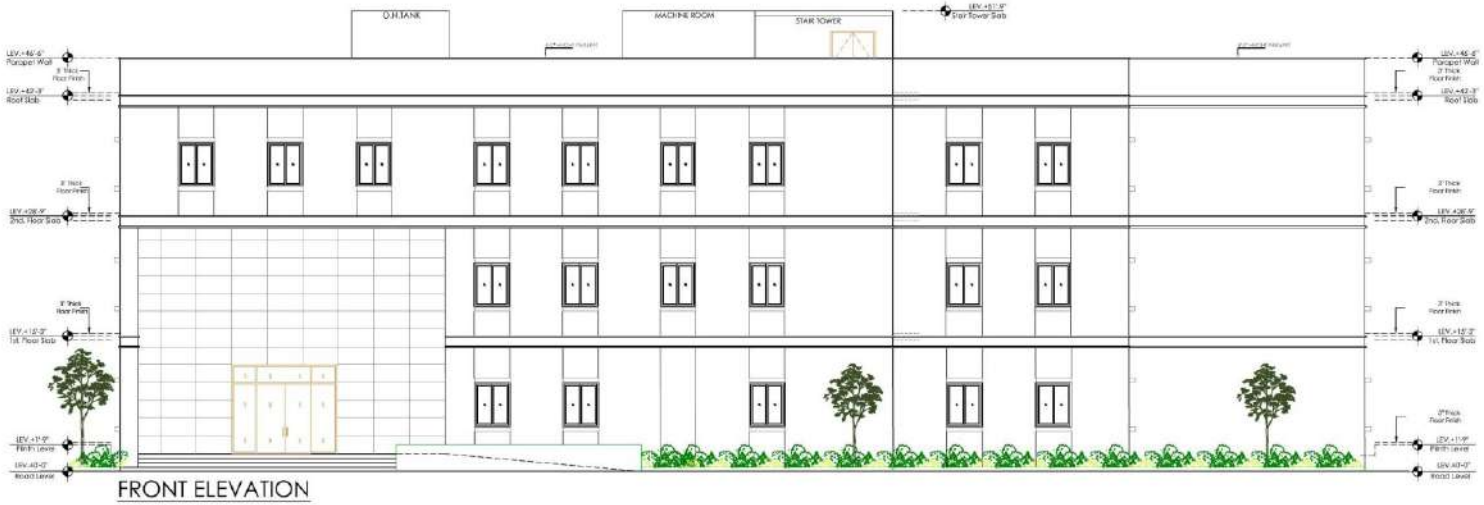
PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:	DUHS-2314/F
DRAWING TITLE:	REFLECTED CEILING PLAN - SF
DRAWING STATUS:	TENDER DRAWING
	DRAWN BY: Zaki Hassan
SCALE:	3/32" = 1'-0"
DATE:	May, 2025
DESCRIPT:	RRGD
DRAWING NO:	A-014
REVISION NO.:	



RIGHT SIDE ELEVATION



FRONT ELEVATION

GENERAL NOTES:

NORTH

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO.: DUHS-2014/F

DRAWING TITLE: ELEVATION - I

DRAWING STATUS: TENDER DRAWINGS

DRAWN BY: Zaki Hassan

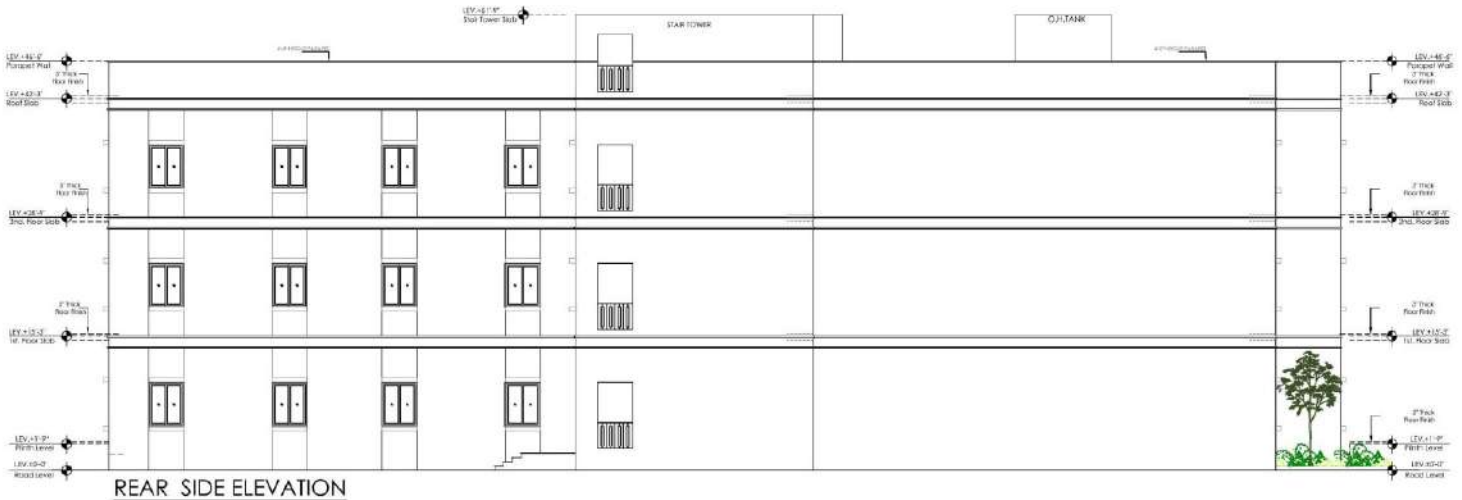
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DATE: May 2025

ISSUED BY:

DRAWING NO.: A-015

REVISION NO.:



REAR SIDE ELEVATION



LEFT SIDE ELEVATION

GENERAL NOTES:

NORTH:

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-231/69

DRAWING TITLE:
ELEVATION - II

DRAWING STATUS:
TENDER DRAWINGS

DRAWN BY:
Zaid Hassan

SCALE:
1/8" = 1'-0"

DATE:
May 2023

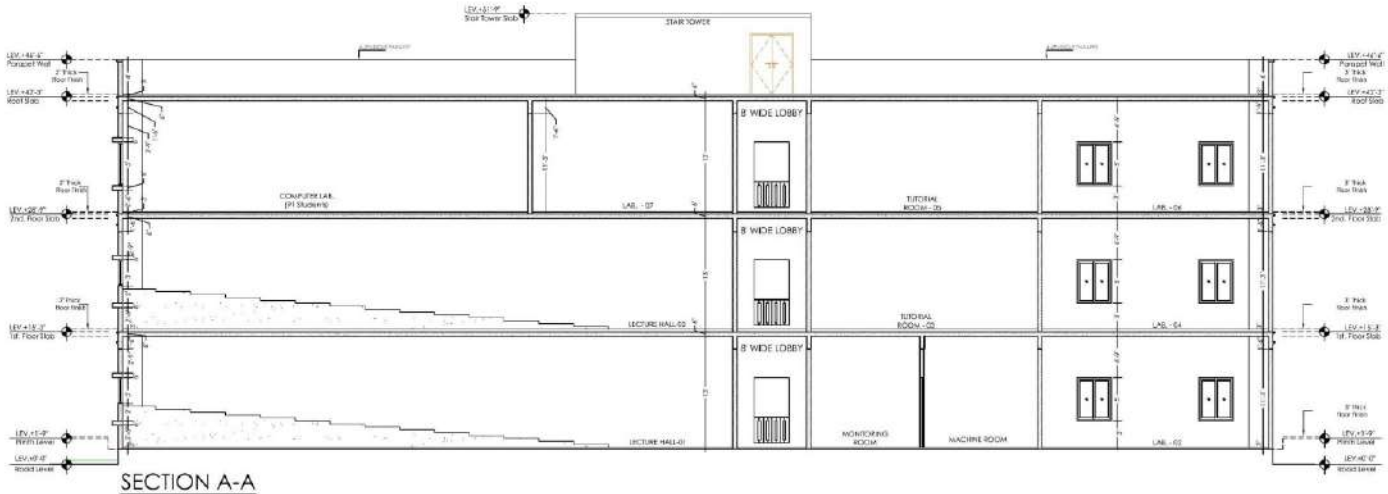
CHKD BY:

DRAWING NO:
A-01A

REVISION NO:



SECTION B-B



SECTION A-A

GENERAL NOTES:

NORTH

REVISION SCHEDULE

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-2314/F

DRAWING TITLE: SECTION - I

DRAWING STATUS: TENDER DRAWINGS

DRAWN BY: Zaid Hassan

SCALE: 1/8" = 1'-0"

DATE: May 2025

DRAWING NO: A-037

REVISION NO:



SECTION D-D



SECTION C-C

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: IDHS-2314/F

DRAWING TITLE: SECTION - II

DRAWING STATUS: TENDER DRAWINGS

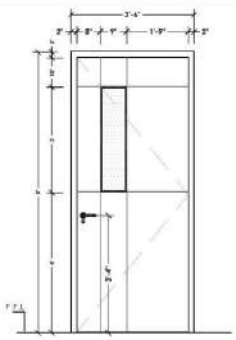
DRAWN BY: Zaki Hassan

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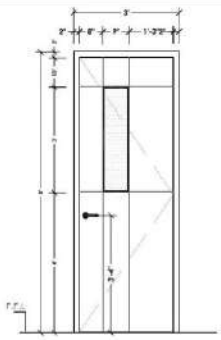
DATE: May 2025

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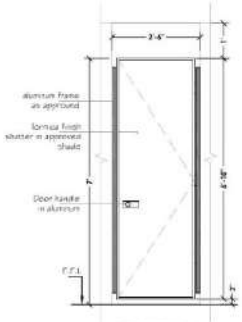
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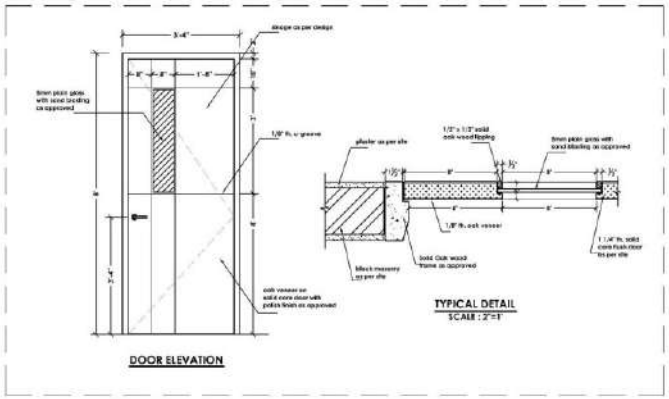
ELEVATION



ELEVATION

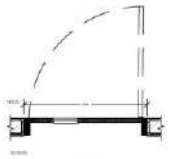


ELEVATION



DOOR ELEVATION

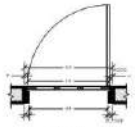
TYPICAL DETAIL
SCALE : 2"=1'



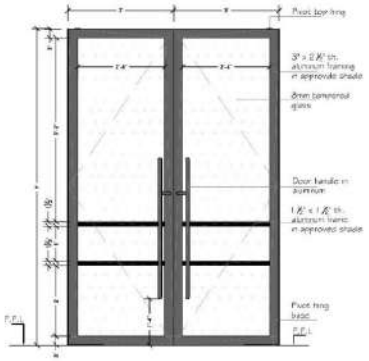
PLAN
DOOR TYPE - D2



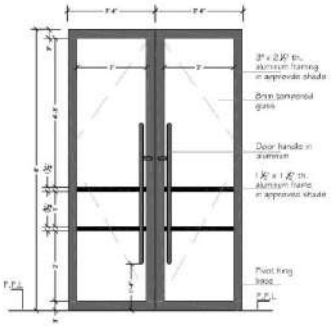
PLAN
DOOR TYPE - D3



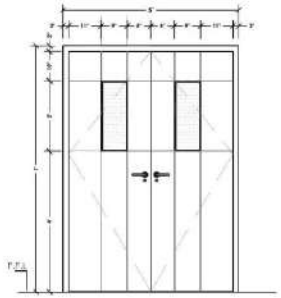
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DOOR TYPE - D4



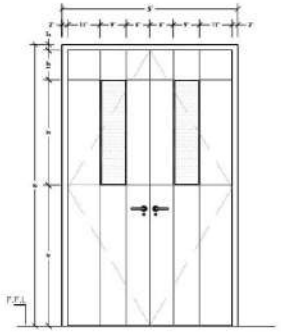
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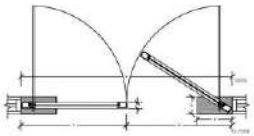
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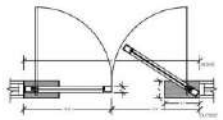
ELEVATION



ELEVATION



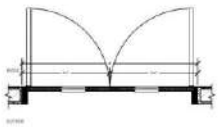
PLAN
DOOR TYPE - ED1



PLAN
DOOR TYPE - ED2



PLAN
DOOR TYPE - DD1



PLAN
DOOR TYPE - DD2

GENERAL NOTES:

NOTES:

REVISION SCHEDULE

Rev. No.	Date	Description

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:

DUHS-22147E

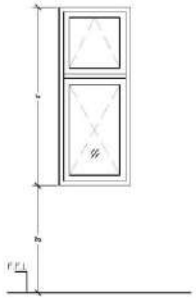
DRAWING TITLE:

DOOR AND WINDOWS - I

DRAWING STATUS:

TENDER DRAWING

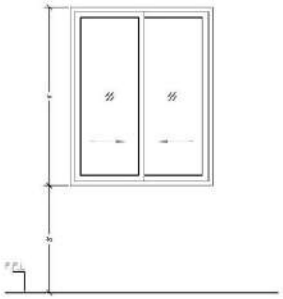
	DRAWN BY: Zaid Hassan
SCALE: 1/2" = 1'-0"	
DATE: April 2025	ISSUED BY: IMTHD
DRAWING NO.: A-019	REVISION NO.:



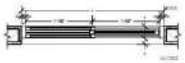
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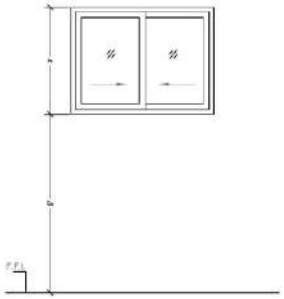
PLAN
WINDOW TYPE - W1



ELEVATION



PLAN
WINDOW TYPE - W2



ELEVATION



PLAN
WINDOW TYPE - W3

SCHEDULE OF DOORS

NO.	Door No.	Description	Size (Masonry Opening)	Quantity Ground	First	Second	Roof	Total
01	D01	MAIN ENTRANCE (Double Shutter)	6'-0" x 9'-0	1				1
02	D02	ENTRANCE - REAR SIDE (Double Shutter)	6'-0" x 8'-0	1				1
03	D03	STAIRCASE TOWER (Double Shutter)	5'-0" x 7'-0				1	1
04	D04	DIFFERENT SPACES (Double Shutter)	5'-0" x 8'-0	10	10	12		32
05	D05	MAIN OFFICES (Single Shutter)	3'-0" x 8'-0	1		1		2
06	D06	OTHER SPACES (Single Shutter)	3'-0" x 8'-0	35	19	9		63
07	D07	TOILET CUBICAL DOOR	3'-0" x 7'-0	10	10	10		30

SCHEDULE OF WINDOWS

NO.	Window No.	Description	Size (Masonry Opening)	Quantity Ground	First	Second	Roof	Total
01	W1	EX. WASH ROOM	2'-0" x 5'-0	1	1			2
02	W2	DIFFERENT SPACES	4'-0" x 5'-0	19	21	28		68
03	W3	LOBBY / LECTURE HALL	4'-0" x 3'-0	8	4			8

GENERAL NOTES:

WORKS:

Rev. No.	Date	Description

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-2314/E

DRAWING TITLE:
DOOR AND WINDOWS - II

DRAWING STATUS:
TENDER DRAWING

DRAWN BY:
Zaki Hassan

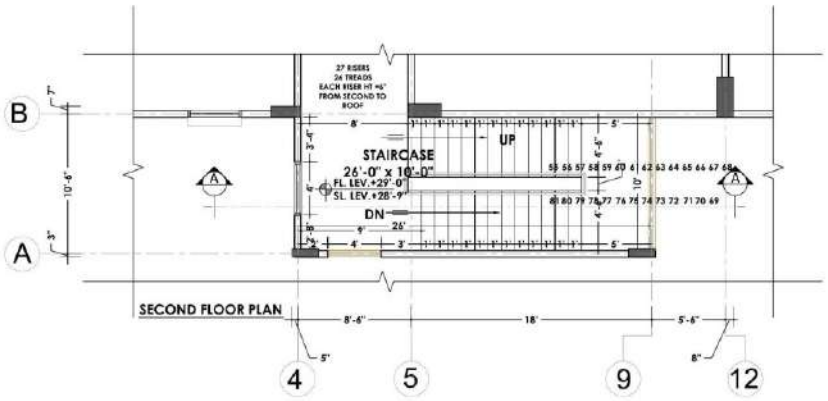
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DATE:
April 2025

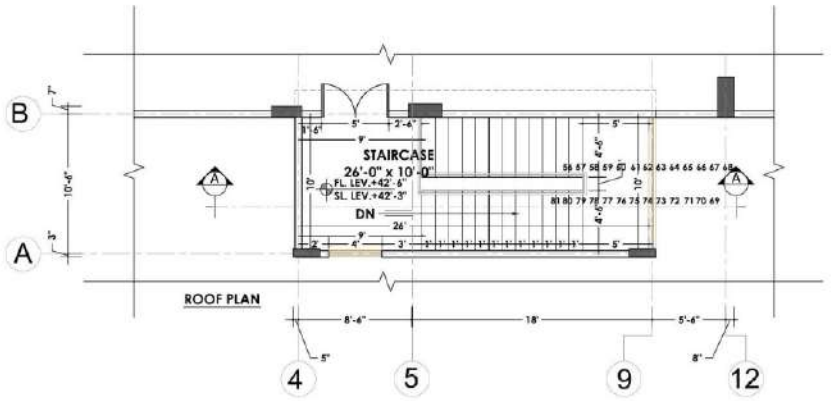
ISSUED BY:
Ittihad

DRAWING NO.
A- 020

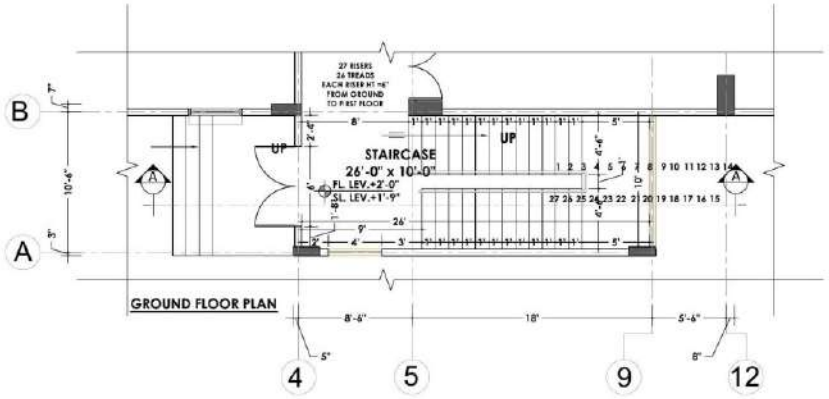
REVISION NO :



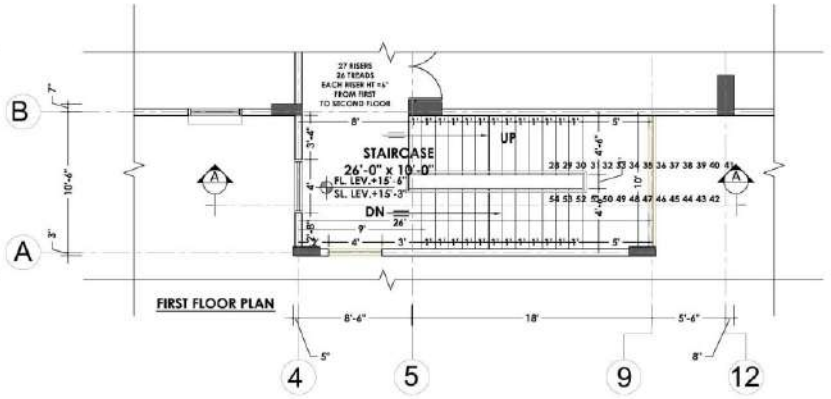
SECOND FLOOR PLAN



ROOF PLAN



GROUND FLOOR PLAN



FIRST FLOOR PLAN

GENERAL NOTES:

NORTH

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-2314/7

DRAWING TITLE: STAIRCASE (ST1) DETAIL - I

DRAWING STATUS: TENDER DRAWING

DRAWN BY: Zain Hussain

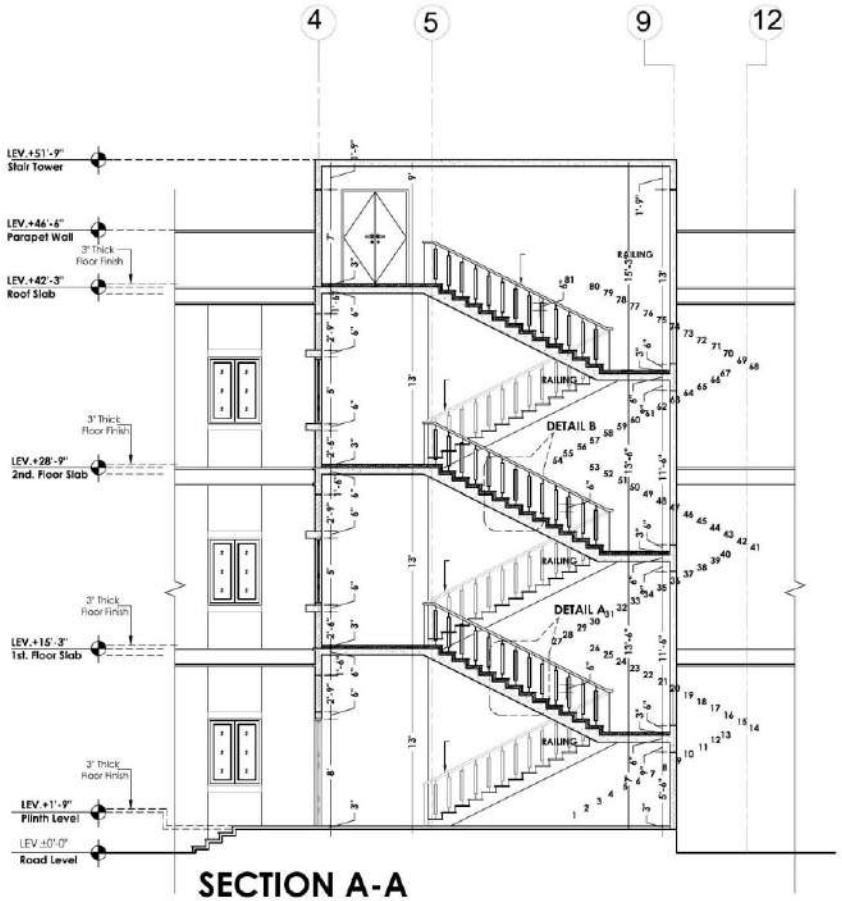
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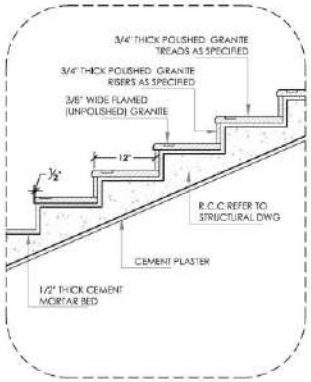
DATE: April, 2025

ISSUED BY: Irshad

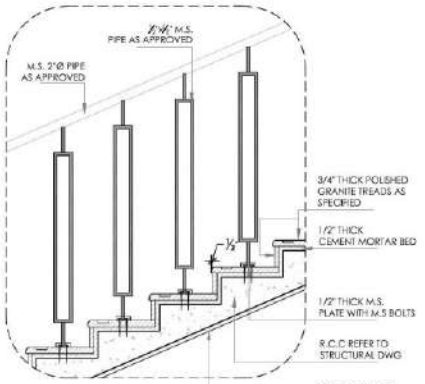
DRAWING NO: A- 321

REVISION NO:





DETAIL B



DETAIL A

GENERAL NOTES:

NORTH:

REVISION SCHEDULE

Date	Description

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO.
DUHS-2314/F

DRAWING TITLE:
STAIRCASE (ST1) DETAIL - II

DRAWING STATUS:
TENDER DRAWING

DRAWN BY:
Zaid Hasan

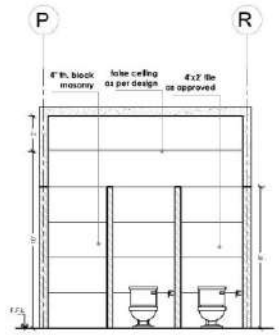
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3/32" = 1'-0"

DATE:
April, 2025

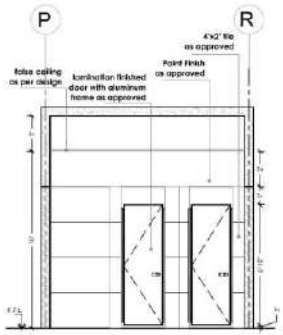
ISSUED BY:
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DRAWING NO.
A-823

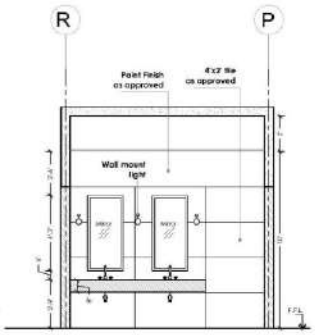
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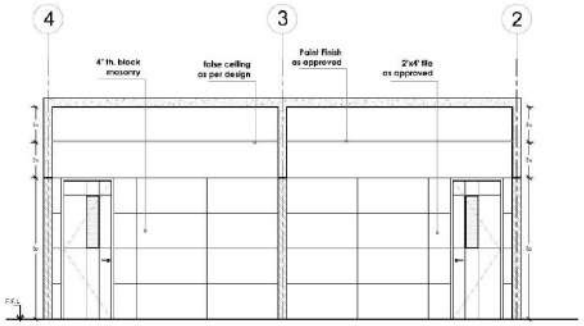
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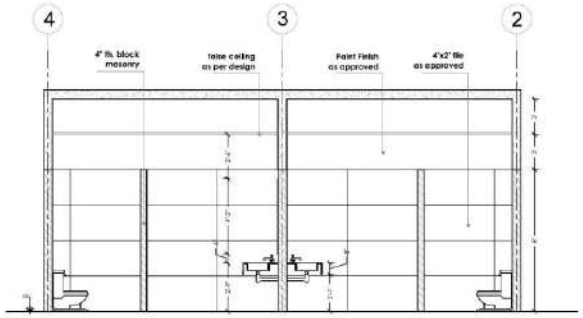
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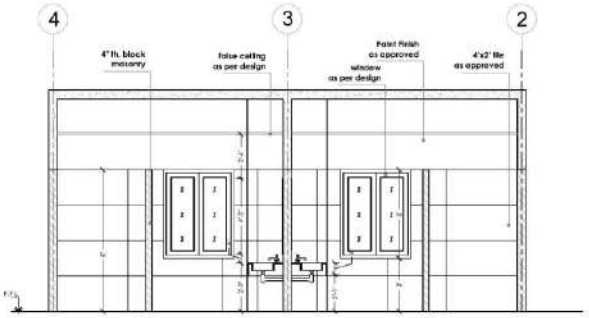
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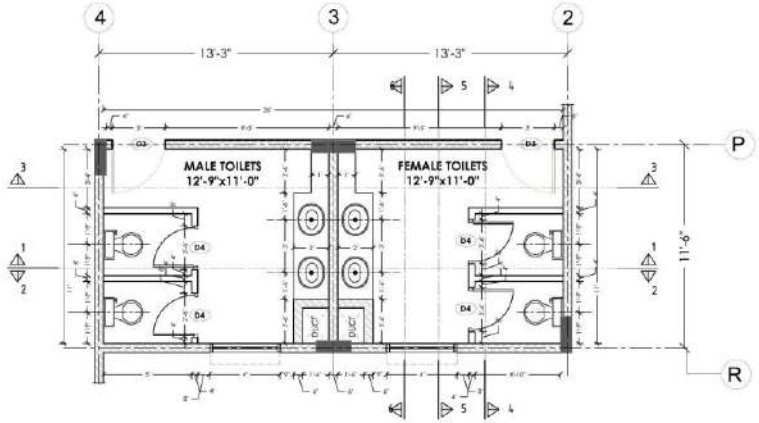
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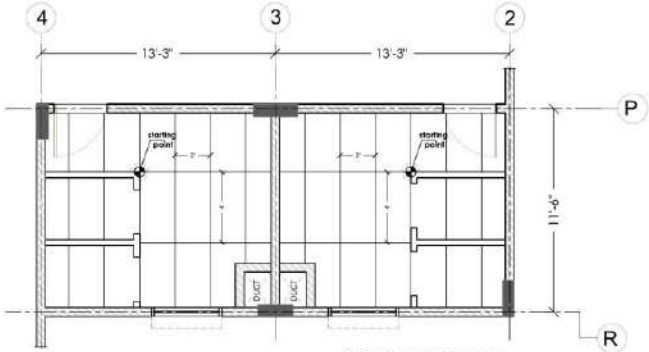
SECTIONAL ELEVATION - 1



SECTIONAL ELEVATION - 2



LAYOUT PLAN



FLOOR LAYOUT PLAN

GENERAL NOTES:

NORTH

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-2314/R

DRAWING TITLE:
MALE/FEMALE TOILET DETAIL

DRAWING STATUS:
TENDER DRAWING

DRAWN BY:
Zoh Hassan

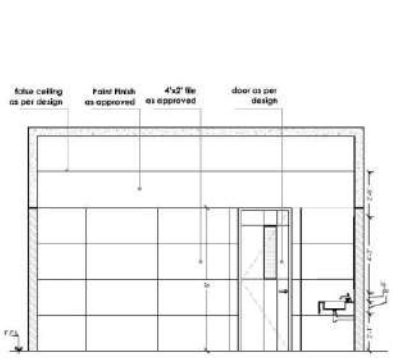
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1/4" = 1'-0"

DATE:
April, 2025

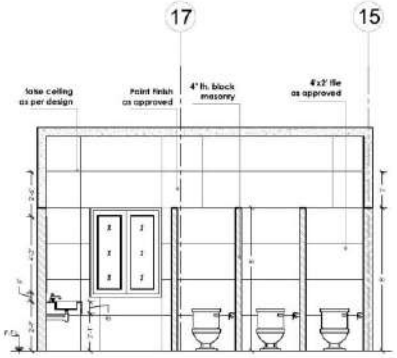
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DRAWING NO.
A- 023

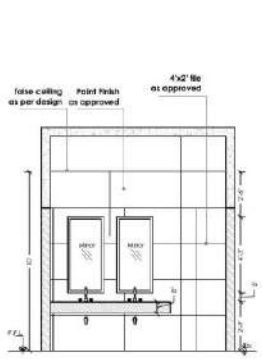
REVISION NO.:



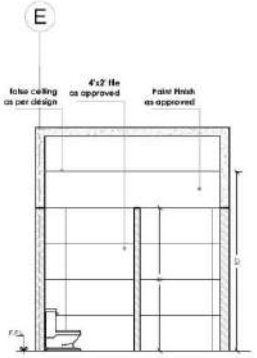
SECTIONAL ELEVATION - 2



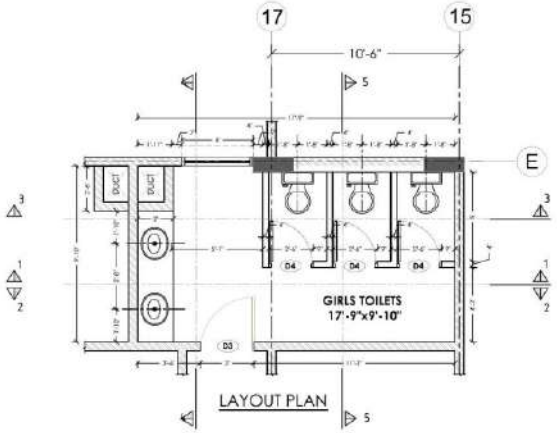
SECTIONAL ELEVATION - 3



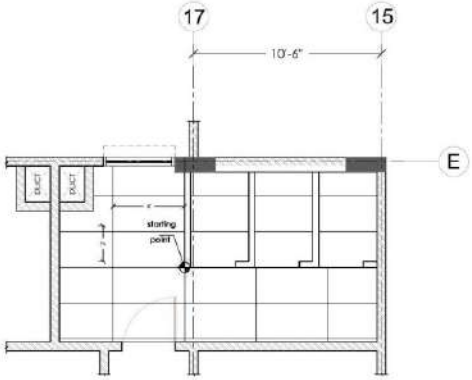
SECTIONAL ELEVATION - 4



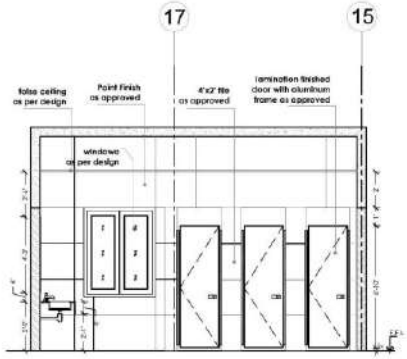
SECTIONAL ELEVATION - 5



LAYOUT PLAN



FLOOR LAYOUT PLAN



SECTIONAL ELEVATION - 1

GENERAL NOTES:

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO.: DUHS 2314/E

DRAWING TITLE: GIRLS TOILET DETAIL

DRAWING STATUS: TENDER DRAWING

DRAWN BY: Zaid Hassan

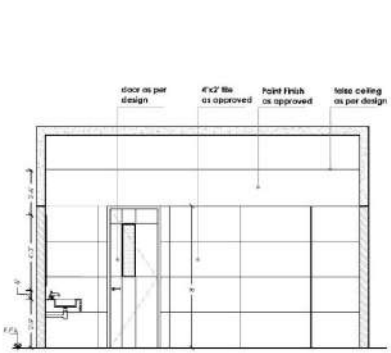
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DATE: April, 2025

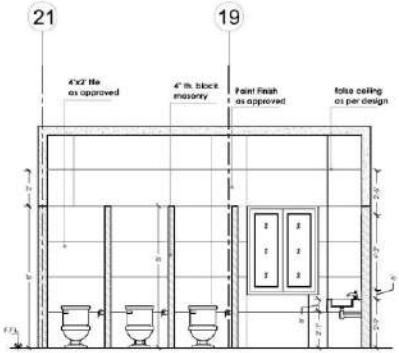
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DRAWING NO.: A- 025

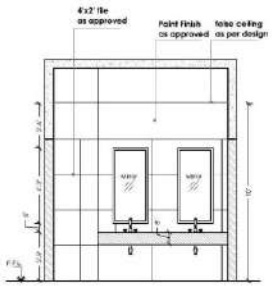
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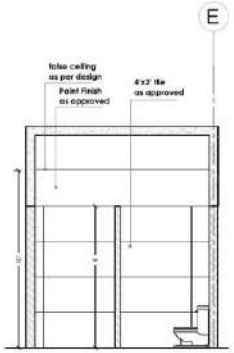
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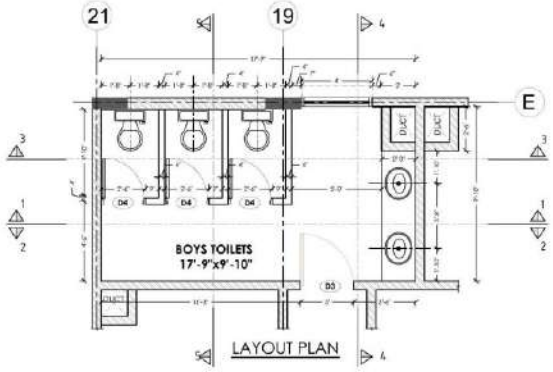
SECTIONAL ELEVATION - 3



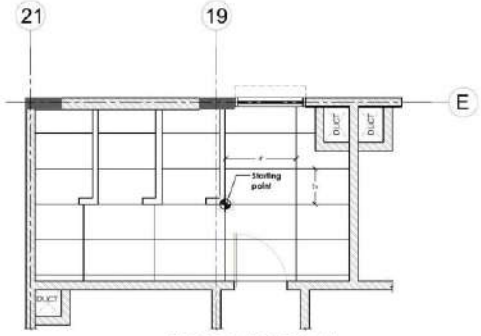
SECTIONAL ELEVATION - 4



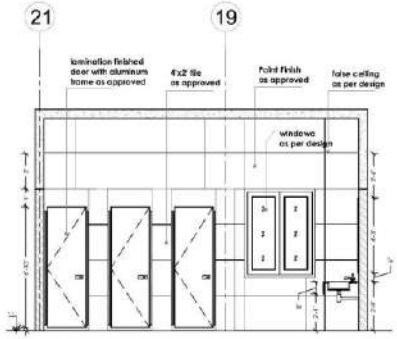
SECTIONAL ELEVATION - 5



LAYOUT PLAN



FLOOR LAYOUT PLAN



SECTIONAL ELEVATION - 1

GENERAL NOTES:

NOTES:

REVISION SCHEDULE

Rev. No.	Date	Description

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-2314/E

DRAWING TITLE:
BOYS TOILET DETAIL

DRAWING STATUS:
TENDER DRAWING

DRAWN BY:
Zaid Hussain

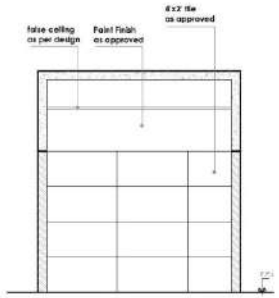
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DATE:
April, 2023

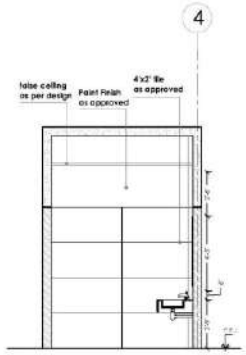
ISSUED BY:
Ismail

DRAWING NO.
A- 024

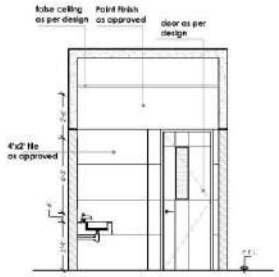
REVISION NO :



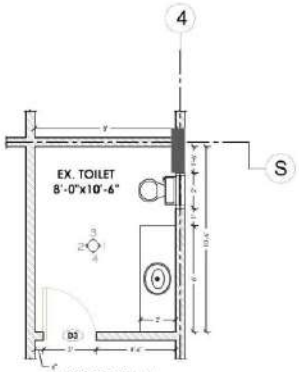
SECTIONAL ELEVATION - 2



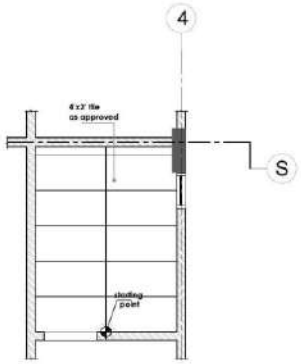
SECTIONAL ELEVATION - 3



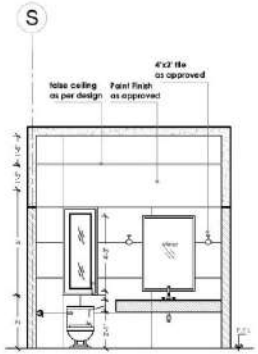
SECTIONAL ELEVATION - 4



LAYOUT PLAN



FLOOR LAYOUT PLAN



SECTIONAL ELEVATION - 1

GENERAL NOTES:

NOTES:

Rev. No.	Date	Description
		REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-2314/E

DRAWING TITLE:
EX. TOILET DETAIL

DRAWING STATUS:
TENDER DRAWING

DRAWN BY:
Zaid Hussain

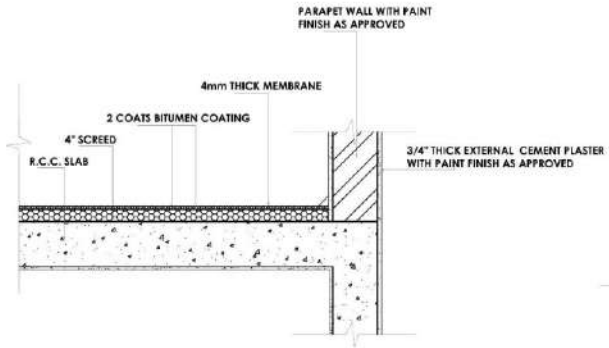
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DATE:
April, 2025

ISSUED BY:
IMTod

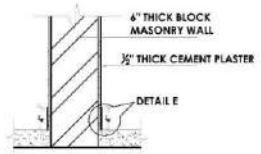
DRAWING NO.
A - 026

REVISION NO.:

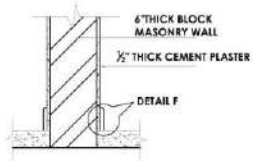


WATER AND HEAT INSULATION OF ROOF
SCALE: 1" = 1'-0"

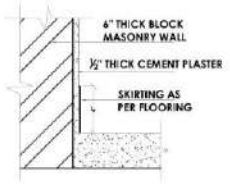
TYPICAL PARAPET AND ROOF TREATMENT DETAIL



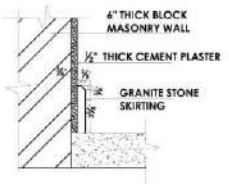
SKIRTING AS PER FLOORING
SCALE: 1"=1'-0"



GRANITE STONE SKIRTING
SCALE: 1"=1'-0"

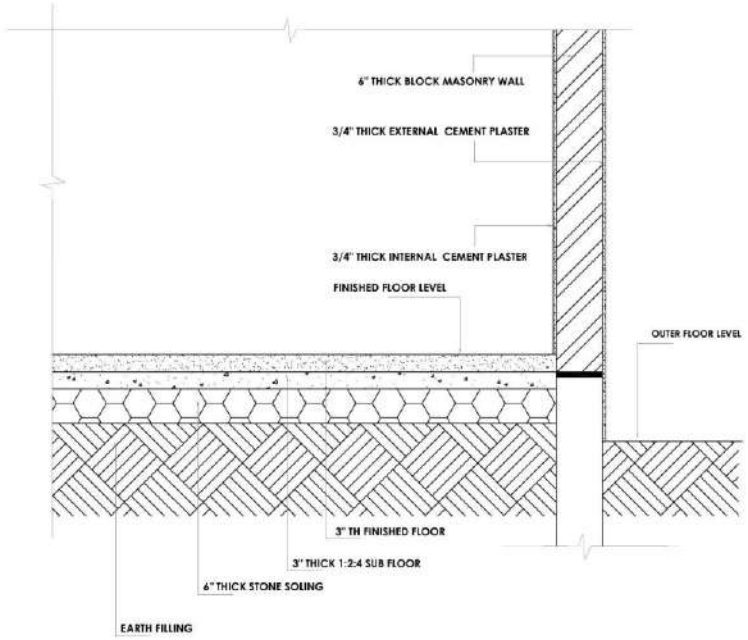


DETAIL E
SCALE: 3"=1'-0"



DETAIL F
SCALE: 3"=1'-0"

SKIRTING DETAIL



TYPICAL FLOORING DETAIL
SCALE: 1"=1'-0

GENERAL NOTES:

NORTH:

REVISION SCHEDULE

Rev. No.	Date	Description

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-221478

DRAWING TITLE:
DETAILS

DRAWING STATUS:
TENDER DRAWING

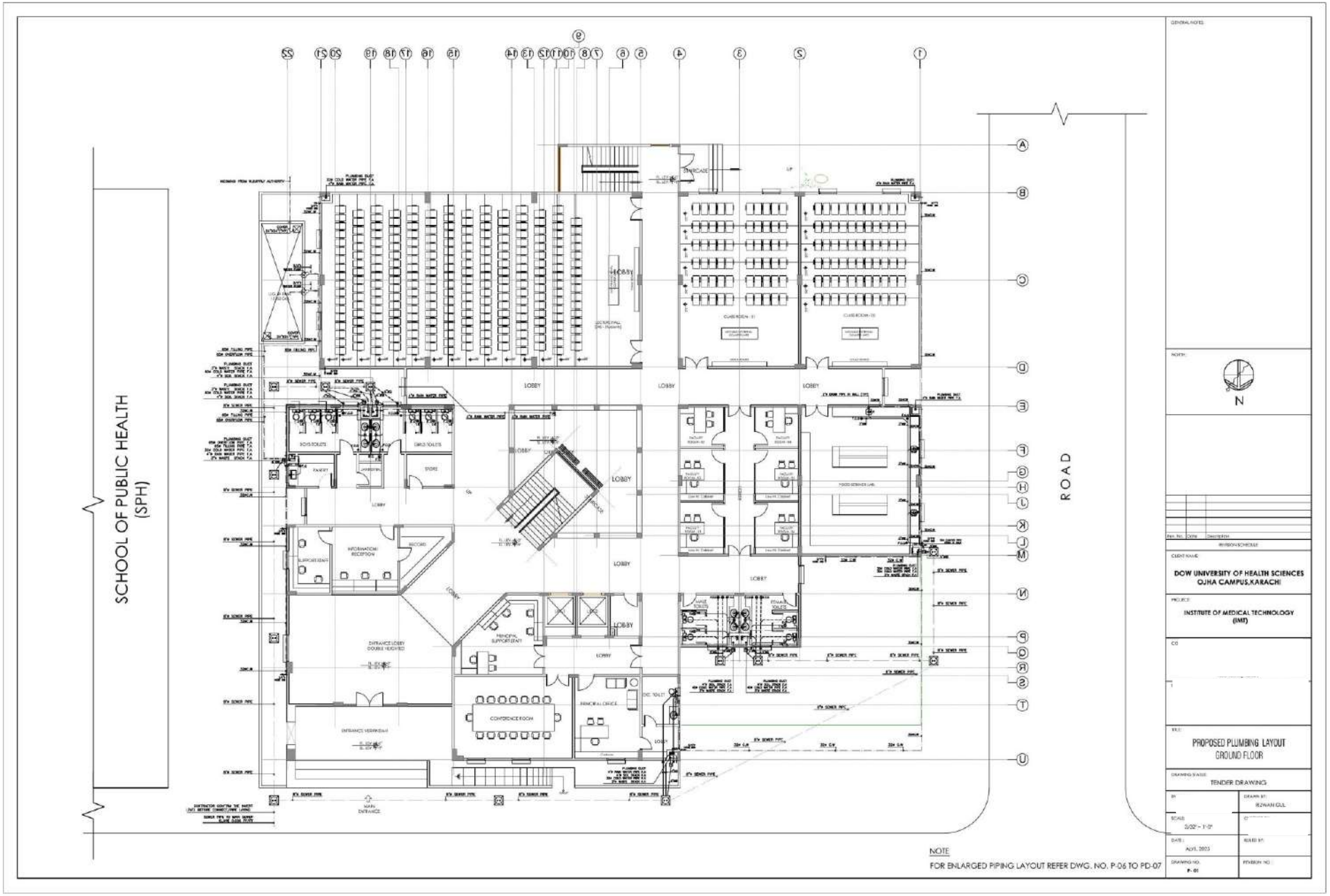
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SCALE: 1" = 1'-0"	
DATE: April 2025	ISSUED BY: IMT/QS
DRAWING NO.: A- 027	REVISION NO.:

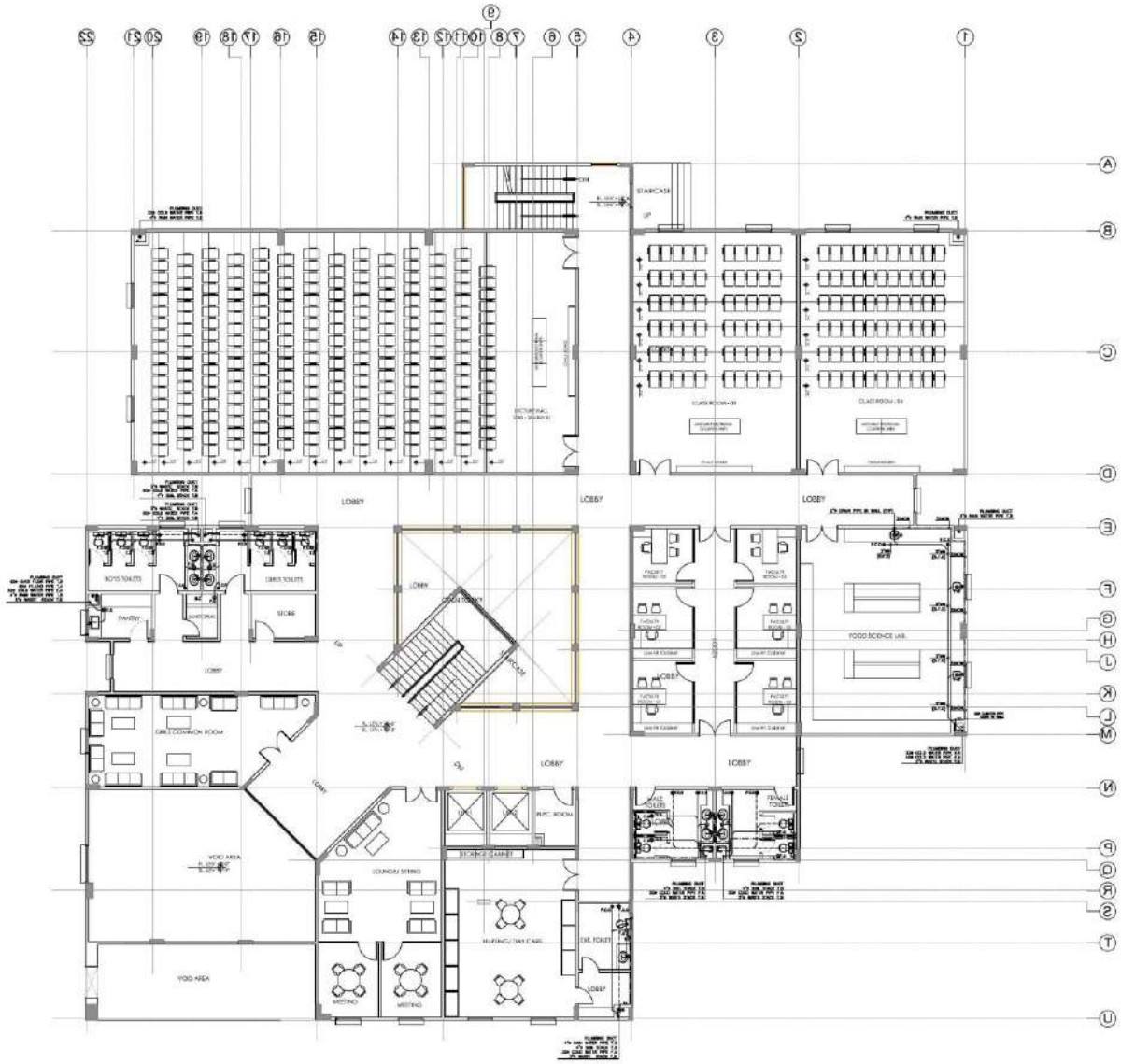
PLUMBING DRAWINGS

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

DOW UNIVERSITY OF HEALTH SCIENCES,
OJHA CAMPUS, KARACHI

PLUMBING DRAWINGS
TENDER DRAWINGS
APRIL, 2025


SCHOOL OF PUBLIC HEALTH
(SPH)
ROAD
LOBBY
STAIRCASE
CLASS ROOM - 01
CLASS ROOM - 02
BOYS TOILETS
GIRLS TOILETS
STORE
INFORMATION RECEPTION
ENTRANCE LOBBY DOUBLE HEIGHTED
PRINCIPAL SUPPORT STAFF
CONFERENCE ROOM
PRINCIPAL OFFICE
FACULTY ROOM - 01
FACULTY ROOM - 02
FACULTY ROOM - 03
FACULTY ROOM - 04
FOOD SCIENCES LAB.
MALE TOILETS
FEMALE TOILETS
ENTRANCE VERANDAH
MAIN ENTRANCE
NOTE
FOR ENLARGED PIPING LAYOUT REFER DWG. NO. P-06 TO PD-07
GENERAL NOTES:
NORTH
N
REVISION SCHEDULE
CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES
OJHA CAMPUS,KARACHI
PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY
(IMT)
TITLE:
PROPOSED PLUMBING LAYOUT
GROUND FLOOR
DRAWING STATUS:
TENDER DRAWING
DRAWN BY:
RIZWAN GUL
SCALE:
3/32"= 1'-0"
DATE:
AUG, 2025
CHECKED BY:
DRAWING NO.
P- 01
REVISION NO.



NOTE

FOR ENLARGED PIPING LAYOUT REFER DWG. NO. P-06 TO P0-07

GENERAL NOTES:

NORTH

N

Rev. No. | Date | Description

REVISION SCHEDULE

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES
OJHA CAMPUS,KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY
(IMT)

TITLE:

PROPOSED PLUMBING LAYOUT
FIRST FLOOR

DRAWING STATUS:

TENDER DRAWING

DRAWN BY:
REZWAN GUL

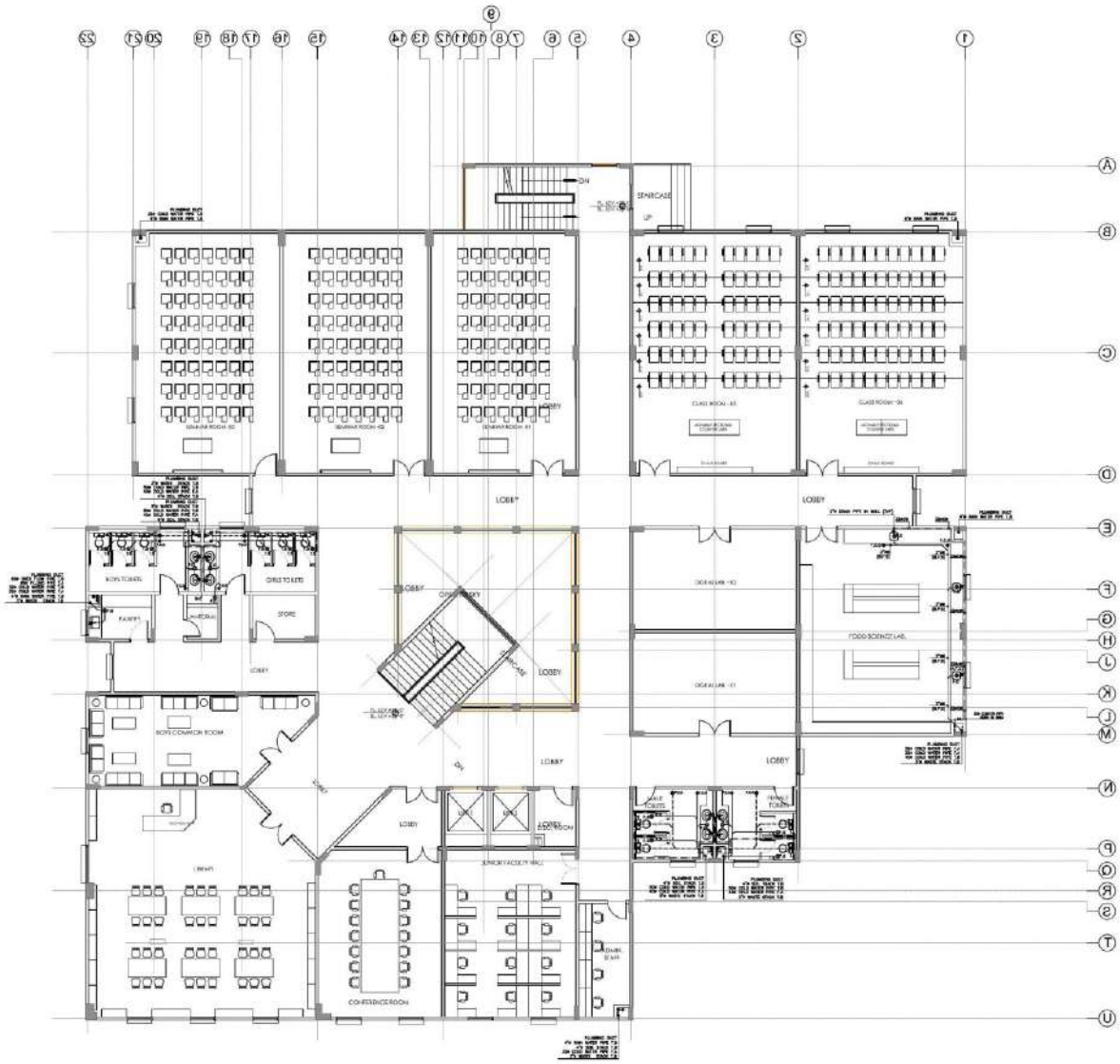
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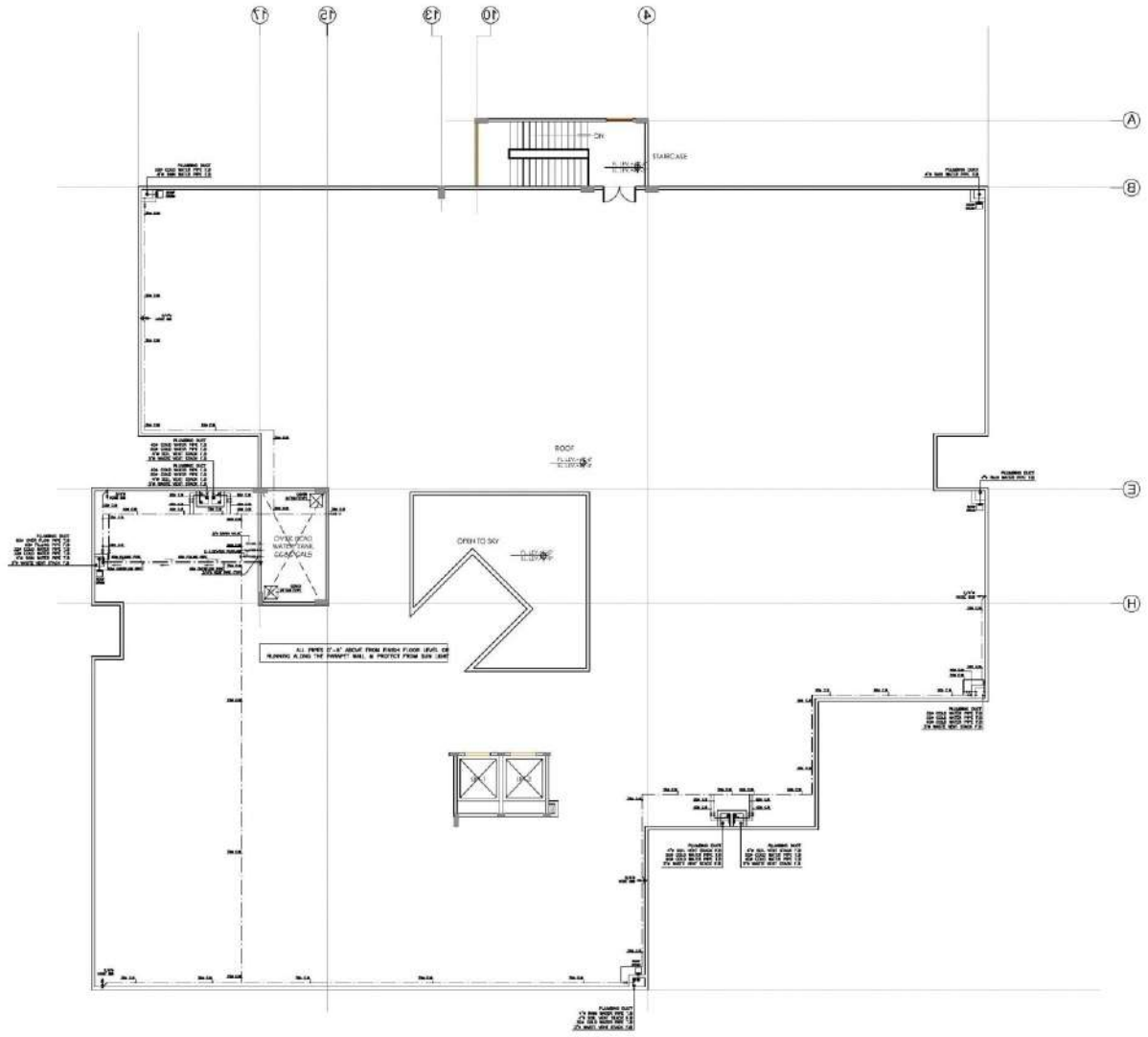
DATE:
April, 2025

SHEET NO:

DRAWING NO:
P- 02

REVISION NO:


LOBBY
STAIRCASE
LOBBY
LOBBY
LOBBY



NOTE

FOR ENLARGED PIPING LAYOUT REFER DWG. NO. P-06 TO PD-07

GENERAL NOTES:

NORTH

N

REVISION SCHEDULE

Rev. No. | Date | Description

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES
OJHA CAMPUS,KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY
(IMT)

BY

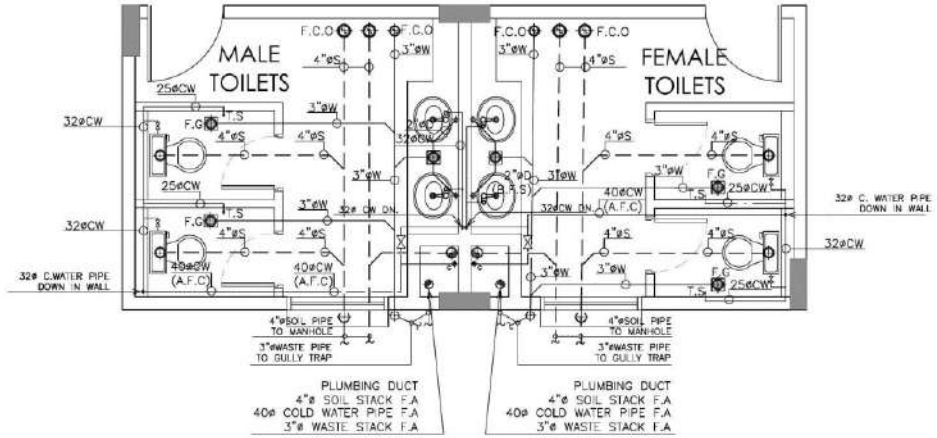
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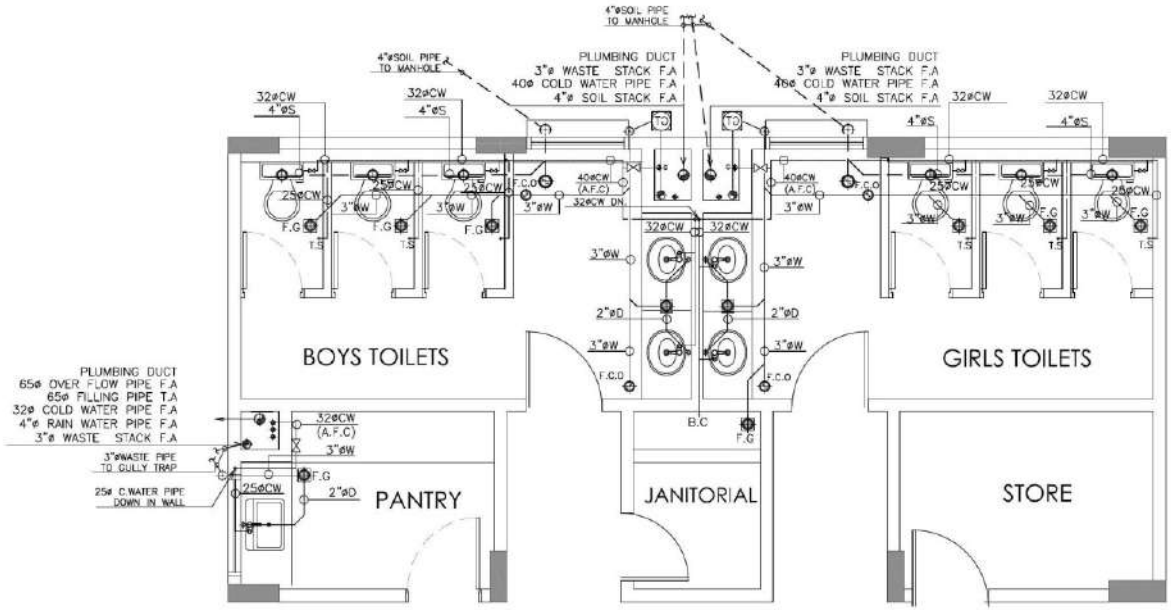
PROPOSED PLUMBING LAYOUT
ROOF

DRAWING STATUS:

TENDER DRAWING

#	DRAWN BY: RIZWAN O.U.
SCALE: 3/32"= 1'-0"	
DATE: April, 2025	ISSUED BY:
DRAWING NO.: P- 04	REVISION NO.:





GENERAL NOTES:

NORTH:

N

Rev. no.	Date	Description

REVISION SCHEDULE

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES OJHA CAMPUS,KARACHI

PROJECT:

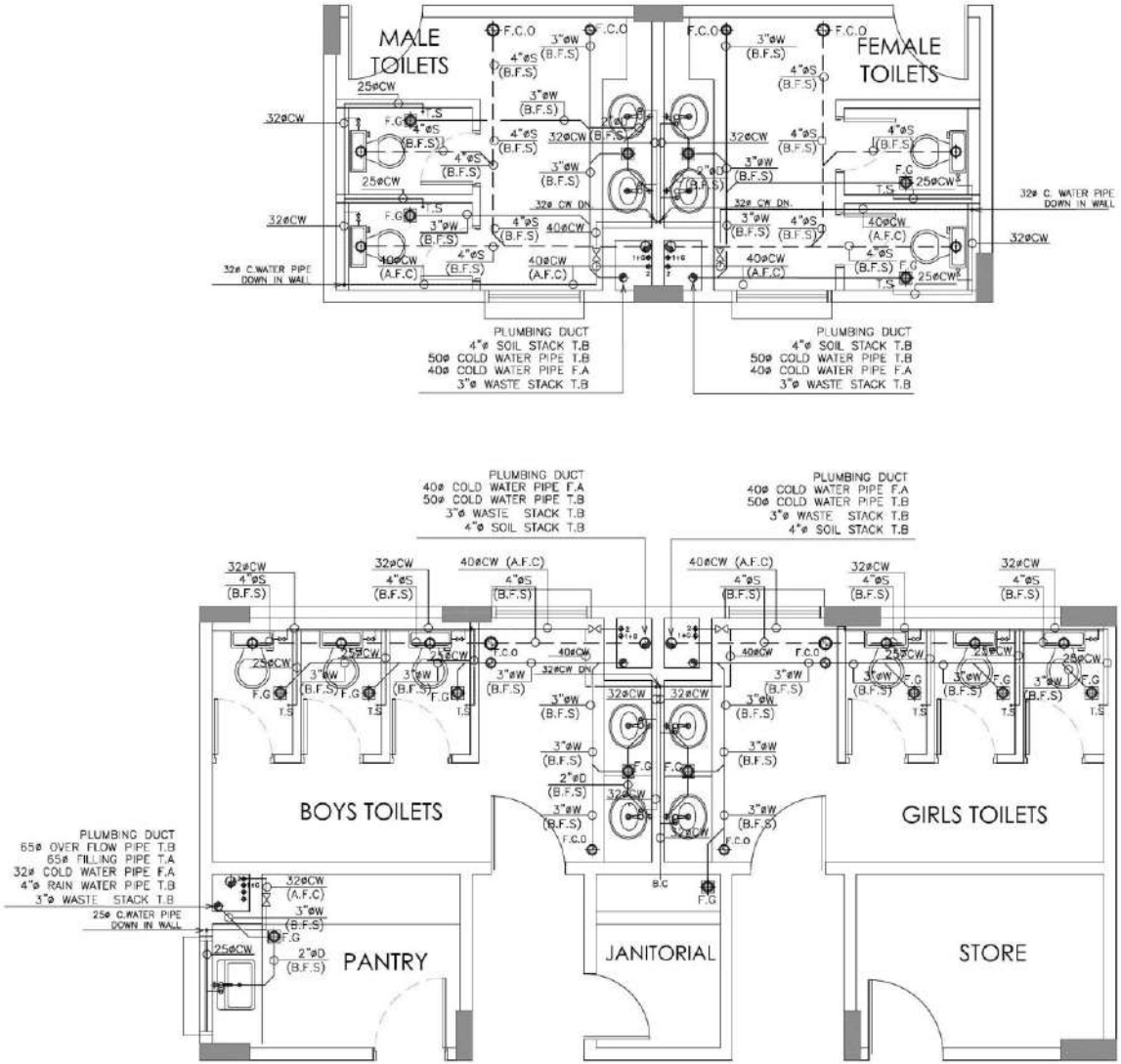
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

TITLE:

ENLARGED PIPING LAYOUT
MALE,FEMALE & BOYS,GIRLS TOILETS
GROUND FLOOR

DRAWING STATUS:
TENDER DRAWING

	DRAWN BY:
	RIZWAN GUL
SCALE: 3/8" = 1'-0"	
DATE: April, 2025	ISSUED BY:
DRAWING NO. P- 05	REVISION NO :



GENERAL NOTES:

NORTH:

N

Rev. No.	Date	Description

REVISION SCHEDULE

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES OJHA CAMPUS,KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

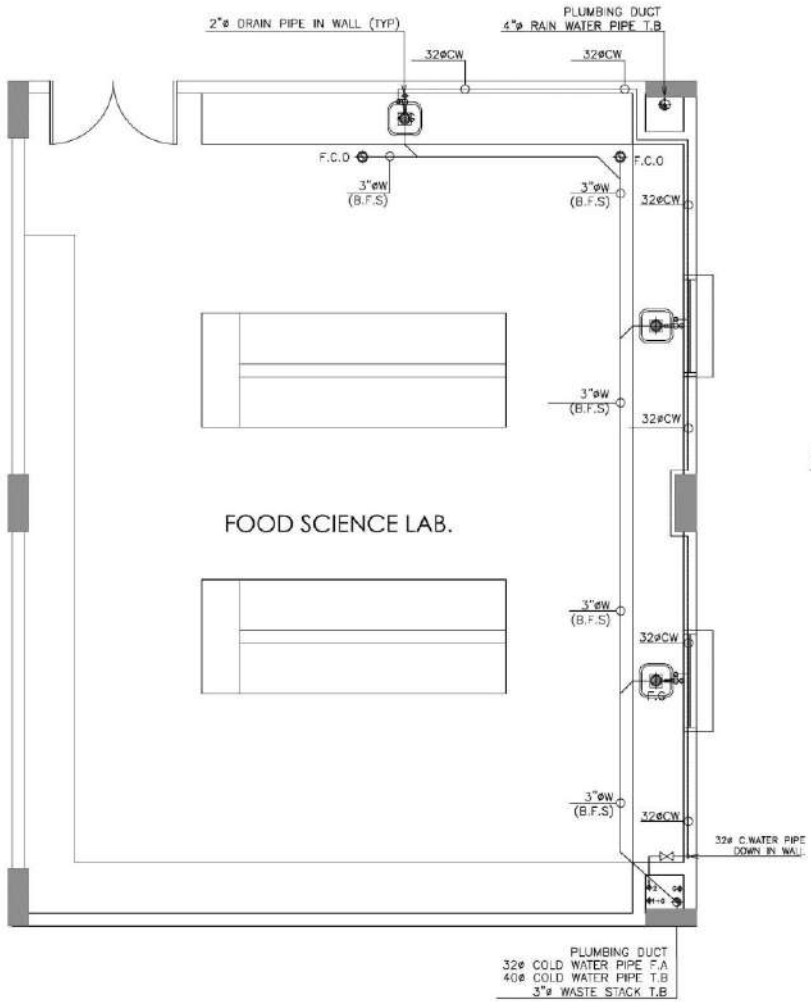
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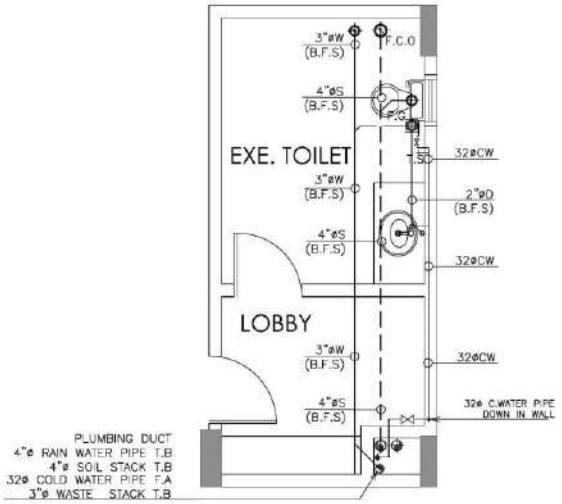
ENLARGED PIPING LAYOUT
MALE,FEMALE & BOYS,GIRLS TOILETS
SECOND FLOOR

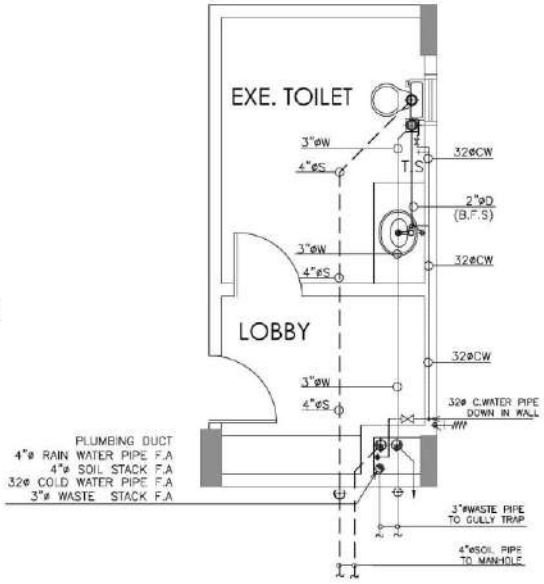
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TENDER DRAWING

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SCALE: 3/8" = 1'-0"	
DATE: April, 2025	ISSUED BY:
DRAWING NO. P- 06	REVISION NO:







GENERAL NOTES

NORTH

N

Rev. No.	Date	Description

REVISION SCHEDULE

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES
OJHA CAMPUS,KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

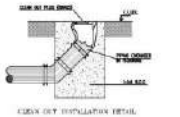
TITLE:

ENLARGED PIPING LAYOUT
FOOD SCIENCE LAB.& EXE. TOILET
2nd ,1st & GROUND FLOOR

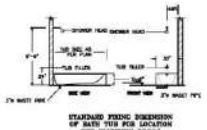
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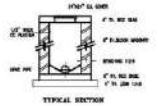
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SCALE: 3/8" = 1'-0"	
DATE: April, 2025	ISSUED BY:
DRAWING NO. P- 07	REVISION NO :



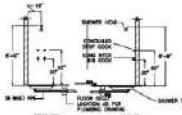
CHECK OUT INSTALLATION DETAIL



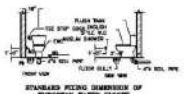
STANDARD FIXING DIMENSION OF BATH TUB FOR LOCATION REF PLUMBING DRGS.)



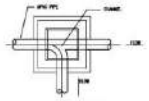
TYPICAL SECTION



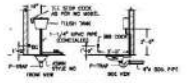
STANDARD FIXING DIMENSION OF SHOWER FOR LOCATION REF PLUMBING DRGS.)



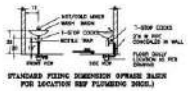
STANDARD FIXING DIMENSION OF EUROPEAN WATER CLOSET FOR LOCATION REF PLUMBING DRGS.)



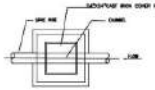
TYPICAL JUNCTION MANHOLE



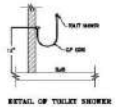
STANDARD FIXING DIMENSION OF ASIAN WATER CLOSET FOR LOCATION REF PLUMBING DRGS.)



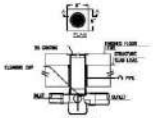
STANDARD FIXING DIMENSION OPPOSED TAPS FOR LOCATION REF PLUMBING DRGS.)



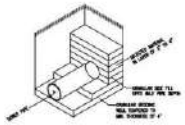
TYPICAL MANHOLE



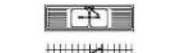
DETAIL OF TOILET SHOWER



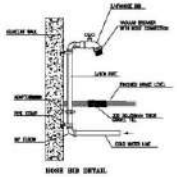
MULTI FLOOR TRAP WITH GRATING



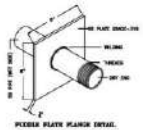
ISOMETRIC VIEW OF SEWER PIPE



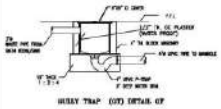
KITCHEN SINK DETAIL



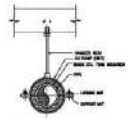
HOUSE SUB DETAIL



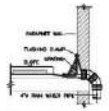
FLEXIBLE PLASTIC FLANGE DETAIL



HUSKY TRAP (OT) DETAIL OF



TYPICAL PIPE SUPPORT DETAIL



SCUPPER ROOF DRAIN DETAIL

SCHEDULE OF PIPE SUPPORTS (UPVC/PPR-C PIPES)

PIPE SIZE	HORIZONTAL (M)	VERTICAL (M)
1/2" TO 1"	0.9 M	1.8 M
1 1/4" TO 2"	1.2 M	2.4 M
2 1/2" TO 4"	1.5 M	3.0 M

SCHEDULE OF PIPE SUPPORTS (G.I PIPES)

PIPE SIZE	HORIZONTAL (M)	VERTICAL (M)
1/2" TO 1"	2.1 M	3.0 M
1 1/4" TO 2"	2.7 M	3.6 M
2 1/2" TO 4"	3.0 M	4.2 M

RECOMMENDED UPVC PIPE SLOPES

PIPE SIZE	SLOPE RATIO
2" TO 4"	1:40
6"	1:60
8"	1:80

GENERAL NOTES

01–THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL SERVICES.

02–DO NOT SCALE THE DRAWING FOLLOW THE WRITTEN DIMENSION OR AS MEASUREMENT TAKEN FROM SITE CONDITIONS.

03–UNLESS OTHERWISE INDICATED ALL PIPE WORK IN TOILETS/BATH ROOMS SHALL BE 20mm DIA. WITH REDUCTIONS TO 15mm DIA. ONLY FOR LAST BRANCH FEEDING A SINGLE CONNECTION. CONNECTIONS TO ALL FIXTURES SHALL BE 15mm DIA. PIPE.

04–ALL FINAL OUTLETS SHALL INCORPORATED ANGLE PATTERN STOP COCKS, CHROMIUM PLATED. FINAL CONNECTIONS TO FIXTURES SHALL BE VIA RIGID C.P. TUBES. NO FLEXIBLE PIPES SHALL BE ALLOWED.

05–AUTOMATIC CONTROL PANEL TO OPERATE THE WATER SUPPLY PUMP TO FILL OVERHEAD TANK WILL BE PROVIDED. LOW LEVEL INDICATOR AND HIGH LEVEL ALARM FOR U/G TANK WILL ALSO PROVIDED.

06–WATER SUPPLY AND PRESSURE BOOSTING PUMPS SHALL NOT BE OPERATED AT LOW WATER LEVEL IN U/G TANK.

07–ALL HORIZONTAL RUNS OF WATER PIPES SHALL BE RUN ABOVE FALSE CEILING AND DROP DOWN WITHIN WALL/SHAFT PROVIDED FOR CONNECTION TO APPLIANCES/ FIXTURES

08–FINAL LOCATION AND HEIGHT OF ALL SHOWN TO BE ADVISED BY ARCH'S DURING CONSTRUCTION STAGE.

09–CONTRACTOR TO COORDINATE WITH FINAL FALSE CEILING LAYOUT AND MAY RE-ROUTE SOME PIPES WHERE FALSE CEILING NOT AVAILABLE.

10–C.P. ANGLE VALVES & C.P. RIDGE TUBE CONNECTIONS TO EACH FIXTURE TO BE INCLUDED IN PLUMBING CONTRACTOR SCOPE OF WORK.

11–WATER HAMMER ARRESTOR TO BE PROVIDED FOR EACH TOILET/PANTRY BLOCK IF IT IS SHOWN OR NOT SHOWN ON THE PLANS.

12–CONTRACTOR TO COORDINATE WITH CLIENT/ARCH'S FOR FINAL SELECTION OF SANITARY FIXTURES & ALLOW FOR ANY CHANGES OF PIPE SIZES SHOWN ON WATER SUPPLY SCHEMATIC DRAWING.

13–CONTRACTOR TO COORDINATE WITH CLIENT/END USER FOR ANY MORE PROVISION REQUIRED AT SITE FOR WATER SUPPLY SYSTEM.

14–ALL EXPOSED PIPES INSIDE THE BUILDING WHERE FALSE CEILING IS NOT PROVIDED, SHALL TO BE PAINTED, COLOR SUBJECT TO ARCH'S /CLIENT APPROVAL.

LEGEND

SYMBOL	DESCRIPTION	REMARKS
CW	COLD WATER SUPPLY PIPE	PPR PIPE PN-20 (CONCEALED)
HW	HOT WATER SUPPLY PIPE	PPR PIPE PN-20 (CONCEALED)
HWR	HOT WATER RETURN PIPE	PPR PIPE PN-20 (CONCEALED)
CW	COLD WATER SUPPLY PIPE	GI/PPR MEDIUM QUALITY (EXPOSED)
HW	HOT WATER SUPPLY PIPE	GI/PPR MEDIUM QUALITY (EXPOSED)
SP	SWIMMING POOL PIPING	uPVC PIPE CLASS D WITH SCH 80 FITING
GAS	GAS PIPE	GI/PPR MEDIUM QUALITY
SS / SC	SOIL WATER PIPE / SOIL WATER STACK	uPVC PIPES CLASS-B
W / WS	WASTE WATER PIPE / WASTE WATER STACK	uPVC PIPES CLASS-B
SW	SEWERAGE PIPE	uPVC PIPES CLASS-D
RWP / RWP	RAIN WATER SOLVENT PIPE / RAIN WATER PIPE DOWN	uPVC PIPES CLASS-D
RD	ROOF DRAIN	CONE TYPE GRATING
WS/SC / HB	TOILET SHOWER/BIB COCK HOSE BIB	APPROVED MAKE
GV	GATE VALVE	APPROVED MAKE/ECONOSTO MAKE
CV	CHECK VALVE	APPROVED MAKE
FV	FLOAT VALVE	APPROVED MAKE
Y	Y-STRAINER	APPROVED MAKE
FV	FOOT VALVE	APPROVED MAKE
GV / SH / S.S	Y-STOP COCK / SHOWER	APPROVED MAKE
	CENTRIFUGAL WATER PUMP	APPROVED MAKE (LOWARA/GRANDFOS)
	HOT WATER CIRCULATING PUMP	APPROVED MAKE
	PRESSURE PUMP	APPROVED MAKE
	SUBMERSIBLE PUMP	APPROVED MAKE
EWC	WALL HUNG EWC	APPROVED MAKE
	BIDET	APPROVED MAKE
AWC	ASIAN STYLE WATER CLOSET	APPROVED MAKE
	WASH BASIN WALL HUNG / WASH BASIN COUNTER TOP	APPROVED MAKE
KS	STAINLESS STEEL SINK	APPROVED MAKE
	GULLY TRAP	uPVC P-TRAP WITH CLEOVER & FRAME
	MANHOLE	AS PER DRAWING
F.C.O	FLOOR CLEAN OUT	uPVC/STAINLESS STEEL (AS PER REQ.)
FD	FLOOR GULLY	uPVC/STAINLESS STEEL (AS PER REQ.)
	GEYSER	NA GAS APPLIANCES

GENERAL NOTES:

NORTH:

N

Rev. No.	Date	Description

REVISION SCHEDULE

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES OJHA CAMPUSKARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

TITLE:

PLUMBING MISCELLANEOUS DETAILS

DRAWING STATUS:

TENDER DRAWING

	DRAWN BY: RIZWAN GUL
SCALE: N.T.S	
DATE: April, 2025	ISSUED BY:
DRAWING NO: P- 08	REVISION NO:

ELECTRICAL & ELV DRAWINGS

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

ELECTRICAL & ELV DRAWINGS APRIL-2025

LIST OF DRAWINGS

DWG NO.	DRAWING TITLE
E-GE-001	LIST OF DRAWINGS, LEGENDS & EARTHING DETAIL
E-GE-002	GENERAL NOTES
E-GE-003	LIGHT FIXTURE SCHEDULE
E-GE-004	SINGLE LINE DIAGRAM
EL-LIGHTING LAYOUT	
DU-EL-001	GROUND FLOOR LIGHTING & EM LAYOUT
DU-EL-002	FIRST FLOOR LIGHTING & EM LAYOUT
DU-EL-003	SECOND FLOOR LIGHTING & EM LAYOUT
EP-POWER LAYOUT	
DU-EP-001	GROUND FLOOR POWER LAYOUT
DU-EP-002	FIRST FLOOR POWER LAYOUT
DU-EP-003	SECOND FLOOR POWER LAYOUT
DU-EP-004	ROOF PLAN POWER LAYOUT
IT-IT LAYOUT	
DU-IT-001	GROUND FLOOR IT LAYOUT
DU-IT-002	FIRST FLOOR IT LAYOUT
DU-IT-003	SECOND FLOOR IT LAYOUT
FA-FA & CCTV LAYOUT	
DU-FA-001	GROUND FLOOR FA & CCTV LAYOUT
DU-FA-002	FIRST FLOOR FA & CCTV LAYOUT
DU-FA-003	SECOND FLOOR FA & CCTV LAYOUT

MOUNTING HEIGHTS

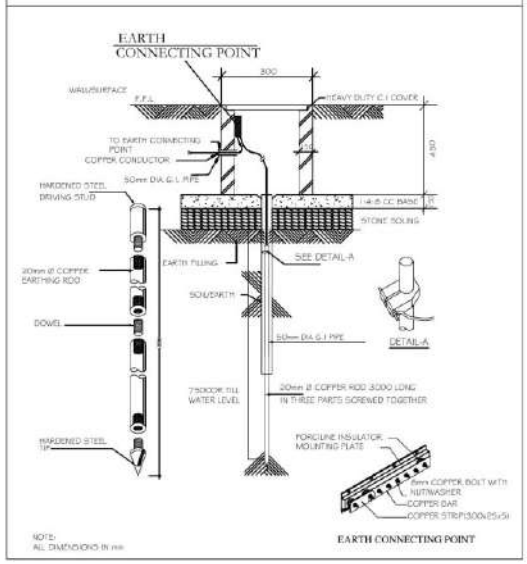
1	LIGHT SWITCH	4'-0" BOTTOM FROM F.F.L.
2	SOCKETS , TELEPHONE, DATA OUTLETS: a.LOW LEVEL b.HIGH LEVEL	 =0'-8" BOTTOM FROM F.F.L. =3'-3" BOTTOM F.F.L.
3	DB HEIGHT.	=6'-0" TOP FROM F.F.L.
4	BELL	=7'-0" MID FROM F.F.L.

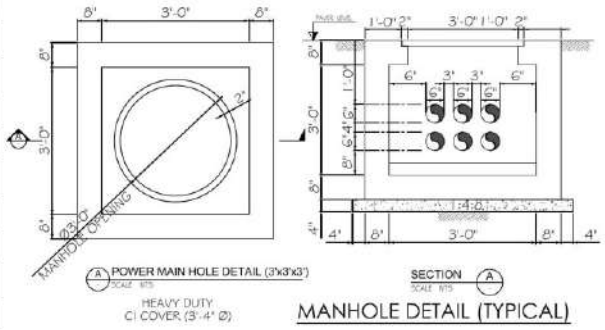
NOTE: THE ABOVE DETAILS ARE SHOWN FOR REFERENCE ONLY, THE HEIGHT SHALL BE AS PER ARCHITECT.

LEGEND

SYMBOL	DESCRIPTION
	LIGHT SWITCH / FAN DIMMER
	13 AMP UNIVERSAL SWITCH SOCKET OUTLET
	2x13 AMP SIMPLEX SWITCH SOCKET OUTLET
	FLOOR BOX : DUAL RJ-45 OUTLET 13 AMP UNIVERSAL SWITCH SOCKET OUTLET 13 AMP SIMPLEX SWITCH SOCKET OUTLET
	15 AMP SWITCH SOCKET OUTLET
	32 AMP 5 PIN INDUSTRIAL SOCKET OUTLET
	SPUR SOCKET OUTLET
	ISOLATOR SPN
	ISOLATOR TPN
	VIVACE ROCKER 20A DP 1 GANG SWITCH WITH NEON & EARTH
	RJ-45 WIFI OUTLET
	DUAL RJ-45 DATA & VOICE OUTLET
	RJ-45 DATA OUTLET
	18U DATA RACK
	MAIN DISTRIBUTION BOARD (MDB)
	SUB MAIN DISTRIBUTION BOARD (SMDB)
	DISTRIBUTION BOARD (DB)
ACS	ACCESS CONTROL SYSTEM PANEL(2 DOOR TYPE)
	DOOR LOCK UNIT (ABOVE THE DOOR)
PB	PUSH BUTTON (4'-8" ATFL)
CR	PROXIMITY CARD READER. (4'-8" ATFL)
	WARD TERMINAL (DZT)
	PATIENT STATION WITH HAND PUSH BUTTON (SMB)
M.C.P	MASTER CLOCK PANEL
00:00	DIGITAL CLOCK
	WIRING FOR SMALL POWER
	WIRING FOR FIRE ALARM
	WIRING FOR TELEPHONE & DATA
	MANHOLE 600mmx600mmx900mm
	50mm Ø UPVC CLASS "D" PIPE

EARTHING DETAILS





GENERAL NOTES

NORTH

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REVISION SCHEDULE

Rev. No.	Date	Description

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: :DUHS-2314/E

DRAWING TITLE: LIST OF DRAWINGS LEGENDS & EARTHING DETAILS

DRAWING STATUS: TENDER DRAWING

	DRAWN BY: Zuki Hussain
SCALE: N. T. S	
DATE: April 2025	CHECKED: Irfnad
DRAWING NO.: E-GE-001	REVISION NO.:

POWER OUTLETS

1. COLOUR FOR ALL SWITCHES, SWITCH SOCKET OUTLETS SHALL BE AS PER CLIENT / CONSULTANT SELECTION.
2. THE ELECTRICAL CONTRACTOR SHALL NOTE THAT THE POSITIONS OF ELECTRICAL POINTS, LUMINAIRES, LIGHTING SWITCHES, SWITCH SOCKET OUTLETS ETC. ARE INDICATIVE AND APPROXIMATE AS SHOWN ON DRAWINGS. THE ACTUAL POSITIONS SHALL BE BASED ON THE ARCHITECT'S DRAWING. THE CONTRACTOR IS DEEMED TO HAVE ALLOWED IN HIS TENDER PRICE FOR ALL NECESSARY SITE ADJUSTMENT TO SUIT THE FINAL POSITIONS.
3. LOCATIONS FOR ELECTRICAL DISTRIBUTION BOARDS AND SHOWN IN THE PLANS ARE INDICATIVE ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY ON SITE AND PROPOSE THEIR ACTUAL LOCATIONS ON THE SHOP DRAWING FOR CLEARANCE.

CABLES AND ANCILLARY PRODUCTS

1. ALL PVC CABLES FOR FINAL SUB-CIRCUIT WIRINGS SHALL BE MULTI-STRAND COPPER CONDUCTORS & INSULATION COLOUR OF THE CABLES SHALL BE AS FOLLOWS :-
   LIVE WIRES - RED OR YELLOW OR BLUE FOR SINGLE-PHASE CIRCUIT.
   (TO CORRESPOND TO THE PHASE OF THE SUPPLY)
   RED, YELLOW, BLUE FOR THREE PHASE CIRCUIT
   NEUTRAL WIRES - BLACK
   EARTH WIRE - GREEN & YELLOW
2. SPACE FACTOR OF CONDUIT & TRUNKING SHALL COMPLY WITH BS 7671 CODE OF PRACTICE FOR WIRING OF ELECTRICAL EQUIPMENT.
3. ALL SUB-MAINS CIRCUITS TO BE COMPLETE WITH CIRCUIT PROTECTIVE CONDUCTOR(CPC) COMPLYING TO BS 7671 CODE OF PRACTICE.
4. NEUTRAL & EARTH CABLES FOR EACH DIFFERENT CIRCUIT SHALL BE BROUGHT BACK TO THE SOURCE PANEL AND SHALL NOT BE LOOPED TOGETHER OUTSIDE THE PANEL.

CO-ORDINATION AND INSTALLATION

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN APPROVAL FROM STRUCTURAL ENGINEERS & ARCHITECT FOR PENETRATION THROUGH STRUCTURE AND FLOOR SLABS PRIOR TO CONSTRUCTION.
2. ALL MATERIALS/ CABLES USED AND INSTALLATION METHOD SHALL COMPLY WITH THE TECHNICAL SPECIFICATION, STANDARDS, CODE OF PRACTICE AND AUTHORITY REQUIREMENT.
3. ALL CABLES/ UNDERGROUND PIPE ROUTES SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. ELECTRICAL CONTRACTOR SHALL CHECK AND VERIFY THEM ON SITE.
4. THE CONTRACTOR IS REQUIRED TO SUBMIT DETAILS OF FINAL ARRANGEMENT AND DIMENSIONAL LAYOUT OF ALL ITEMS OF EQUIPMENT IN RESPECTIVE ROOMS TO SUIT SITE CONDITIONS, ETC. FOR REVIEW BY THE ARCHITECT BEFORE COMMENCEMENT OF INSTALLATION.
5. THE TENDERER IS REQUIRED TO CKECK AND HIGHLIGHT IN THEIR TENDER SUBMISSION IF ANY OF THE SWITCHBOARDS, ELECTRICAL EQUIPMENTS, ETC. AS PROVIDED ON THE SPECIFICATION DRAWINGS ARE NOT ADEQUATE TO ACCOMMODATE ALL THE EQUIPMENT TO BE SUPPLIED UNDER THIS CONTRACT.

GENERAL NOTES

1. ALL ELECTRICAL WORKS CARRIED OUT SHALL COMPLY WITH THE LATEST STANDARD.
2. EARTHING INSTALLATION SYSTEM SHALL COMPLY WITH THE LATEST STANDARD ALL WIRING SHALL BE IN CONCEALED CONDUIT/TRUNKING UNLESS OTHERWISE APPROVED BY CONSULTING ENGINEERS.
3. THE POSITIONING OF ALL LIGHTING LIMINAIRES, SWITCH SOCKET OUTLETS, DISTRIBUTION BOARDS ETC. AS SHOWN IN THE DRAWINGS ARE APPROXIMATE ONLY. THE EXACT POSITIONS SHALL BE DETERMINED ON SITE.
4. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL LOAD BALANCING AND LABELING OF ALL EQUIPMENT AND SWITCHBOARDS THROUGHOUT THE INSTALLATION.
5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO LIAISE WITH ELECTRIC INSPECTOR FOR ALL CLEARANCE, CABLE JOINTING, TESTING AND ELECTRICITY METERING FOR THE INSTALLATION. (IF REQUIRED)
6. THE OVERALL RESISTANCE FOR THE EARTHING SYSTEM (ELECTRICAL) SHALL COMPLY WITH LATEST CODES / STANDARDS REQUIREMENTS.
7. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING OF ALL CABLE PENETRATION OPENINGS BETWEEN FLOOR SLAB, MANHOLE AND WALLS ETC. WITH APPROVED FIRE RATING MATERIAL/CONSULTING ENGINEER'S APPROVAL.
8. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING OF ALL CABLE PENETRATION OPENINGS THROUGH ROOF STRUCTURE WALL WITH APPROVED WATER-PROOF MATERIALS AFTER THE INSTALLATION OF CABLES.
9. THE ELECTRICAL CONTRACTOR SHALL BACKFILL WITH SAND THE MANHOLES AND DRAWPITS TO COMPLY TO TECHNICAL SPECIFICATIONS.
10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPOTENTIAL EARTHING BONDING TO ALL METAL PARTS COMPLETED BY THE OTHER TRADES TO THE NEARBY ELECTRICAL PANEL IN ACCORDANCE WITH STANDARD.
11. ALL WIRING TO LIGHTING LUMINAIRES SHALL COMPRISE OF APPROVED CEILING ROSE FOR INDOOR INSTALLATION AND WEATHERPROOF JUNCTION BOX FOR OUTDOOR INSTALLATION. CONNECTION TO LIGHT FIXTURE SHALL BE BY MEANS OF PVC SHEATHED FLEXIBLE CABLE FOR NORMAL SUPPLY, FR CABLE FOR EMERGENCY SUPPLY.
12. OUTDOOR INSTALLATION SHALL BE IN HEAVY DUTY UPVC PIPES.
13. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL NECESSARY LABOUR, MATERIALS AND EQUIPMENTS FOR SATISFACTORY COMPLETION OF THE ENTIRE ELECTRICAL INSTALLATION AS GENERALLY DESCRIBED IN THE SPECIFICATION AND/OR SHOWN ON DRAWINGS.
14. ALL LOCATIONS OF EQUIPMENT AND CABLE ROUTES SHOWN ON THE DRAWING ARE APPROXIMATE. THE EXACT LOCATIONS MUST BE CO-ORDINATED ON SITE BEFORE INSTALLATION. FULLY CO-ORDINATED SHOP DRAWINGS MUST BE SUBMITTED TO THE CONSULTANT FOR APPROVAL BEFORE COMMENCEMENT OF WORK.
15. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARD AND TO THE APPROVAL OF CONSULTANT. THEY SHALL BE PAINTED WITH A COAT OF ANTI-RUST PAINT AND TWO COATS OF SEMI-GLOSS TEAK PAINT OF BEST QUALITY TO THE APPROVAL OF THE CONSULTANT.
16. ALL CONDUITS SHALL COMPLY WITH THE LATEST STANDARD AND MINIMUM SIZE SHALL NOT BE LESS THAN 25mm. ALL THREADS IN CONDUITS SHALL BE TREATED WITH ALUMINIUM PAINT OR SIMILAR ANTI-RUST PAINT TO PREVENT CORROSION AT JOINTS AND TERMINATIONS. CONNECTION SHALL BE BY MEANS OF BUSH & COUPLER.
17. PHASE SEGREGATION SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE IEE WIRING REGULATIONS. SEPARATE CONDUITS SHALL BE USED FOR CABLES OF DIFFERENT CIRCUIT CATEGORIES. FOR 3 PHASE FINAL CIRCUITS, SEPARATE CONDUITS SHALL BE USED FOR DIFFERENT CIRCUITS.
18. ALL LIGHTING POINTS SHALL BE PROVIDED WITH CIRCUIT PROTECTIVE CONDUCTORS AND ALL METAL PARTS SHALL BE CONTINUOUSLY EARTHED THROUGHOUT.
19. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL LIGHT LIMINAIRES AS SHOWN ON THE DRAWINGS. EACH FITTING SHALL HAVE ITS OWN INDEPENDENT SUPPORT REGARDLESS OF SURFACE, RECESSED OR SUSPENDED MOUNTING.
20. EACH CIRCUIT SHALL BE TESTED FOR GROUNDS AND SHORTS BY MEANS OF A MEGGER INSULATION RESISTANCE TESTING INSTRUMENT APPLYING A VOLTAGE OF NOT LESS THAN 500V D.C. UPON CIRCUIT UNDER TEST.
21. ALL EARTH TESTS SHALL BE CARRIED OUT WITH A 1000V MEGGER TEST INSTRUMENT AND IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE IEE WIRING REGULATIONS.

GENERAL NOTES

NORTH

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REVISION SCHEDULE

Rev. No.	Date	Description

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-2314/E

DRAWING TITLE: GENERAL NOTES

DRAWING STATUS: TENDER DRAWING

	DRAWN BY: Zuki Hussain
SCALE: N. T. S	
DATE: April 2025	CHECKED: Irshad
DRAWING NO: E-GE 002	REVISION NO:

SYMBOL	FIXTURE IMAGE
●	

TYPE-A	LED DOWN LIGHT
HOUSING	ALUMINUM + POLY CARBONATE HOUSING
MOUNTING	RECESSED / SURFACE
LAMP TYPE	LED
WATT	15 WATTS
IP RATING	IP20
MAKE	nVc / Osram / Gewiss / EAE

SYMBOL	FIXTURE IMAGE
●	

TYPE-B	LED DOWN LIGHT
HOUSING	ALUMINUM + POLY CARBONATE HOUSING
MOUNTING	RECESSED / SURFACE
LAMP TYPE	LED
WATT	7 WATTS
IP RATING	IP20
MAKE	nVc / Osram / Gewiss / EAE

SYMBOL	FIXTURE IMAGE
○	

TYPE-C	LED DOWN LIGHT
HOUSING	ALUMINUM / DIE CAST WITH GLASS COVER
MOUNTING	SURFACE MOUNTED
LAMP TYPE	LED
WATT	20 WATTS
IP RATING	IP20
MAKE	nVc / Osram / Gewiss / EAE

SYMBOL	FIXTURE IMAGE
●●	

TYPE-D	LED DOWN LIGHT
HOUSING	ALUMINUM + POLY CARBONATE HOUSING
MOUNTING	SURFACE
LAMP TYPE	LED
WATT	2x15 WATTS
IP RATING	IP20
MAKE	nVc / Osram / Gewiss / EAE

SYMBOL	FIXTURE IMAGE
■	

TYPE-E	LED LIGHT FIXTURE 24" x 24"
HOUSING	UV SHIELD POLY CARBONATE WITH STAINLESS STEEL BRACKET
MOUNTING	RECESSED
LAMP TYPE	LED
WATT	30 WATTS
IP RATING	IP20
MAKE	nVc / Osram / Gewiss / EAE

SYMBOL	FIXTURE IMAGE
▬	

TYPE-F	LINEAR LED
HOUSING	ALUMINUM PROFILE 2" x 10'-0"
MOUNTING	SURFACE
LAMP TYPE	LED
WATT	15 WATTS / MTR
IP RATING	IP20
MAKE	nVc / Osram / Gewiss / EAE

SYMBOL	FIXTURE IMAGE
▬	

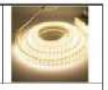
TYPE-G	LINEAR LED
HOUSING	ALUMINUM PROFILE 3" x 72"
MOUNTING	SURFACE
LAMP TYPE	LED
WATT	15 WATTS / MTR
IP RATING	IP20
MAKE	nVc / Osram / Gewiss / EAE

SYMBOL	FIXTURE IMAGE
▬	

TYPE-H	LINEAR LED
HOUSING	ALUMINUM PROFILE 2" X 72"
MOUNTING	SURFACE
LAMP TYPE	LED
WATT	15 WATTS / MTR
IP RATING	IP20
MAKE	nVc / Osram / Gewiss / EAE

Notes:

- FIXTURE IMAGES ARE SHOWN FOR REFERENCE ONLY CONTRACTOR SHOULD SUBMIT DATE SHEETS ALONG WITH FIXTURE SAMPLE TO CLIENT/ENGINEER FOR APPROVAL
- COLOR TEMPERATURE OF LIGHT FIXTURES SHALL BE DECIDED AT THE TIME OF SAMPLE APPROVAL

SYMBOL	FIXTURE IMAGE
———	

TYPE-I	LED STRIP LIGHT
HOUSING	
MOUNTING	SURFACE
LAMP TYPE	LED
WATT	5 WATTS / MTR
IP RATING	IP20
MAKE	nVc / Osram / Gewiss / EAE

SYMBOL	FIXTURE IMAGE
EXIT	

TYPE-Q	EMERGENCY EXIT LIGHT (MAINTAINED TYPE) (3 HOURS BATTERY BACKUP)
HOUSING	POLY CARBONATE
REFLECTOR	AS PER MANUFACTURER
MOUNTING	SURFACE MOUNTED
LAMP TYPE	LED
WATT	8 WATTS
IP RATING	IP20
MAKE	TECHNOWARE / COOPER / MENVIER

SYMBOL	FIXTURE IMAGE
EM EM	

TYPE-R	EMERGENCY LIGHT (NON-MAINTAINED TYPE) (3 HOURS BATTERY BACKUP)
HOUSING	POLY CARBONATE
REFLECTOR	AS PER MANUFACTURER
MOUNTING	SURFACE
LAMP TYPE	LED
WATT	8 WATTS
IP RATING	IP65
MAKE	TECHNOWARE / COOPER / MENVIER

GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-2314/E

DRAWING TITLE: LIGHTING FIXTURE SCHEDULE

DRAWING STATUS: TENDER DRAWING

DRAWN BY: Zuki Hussain

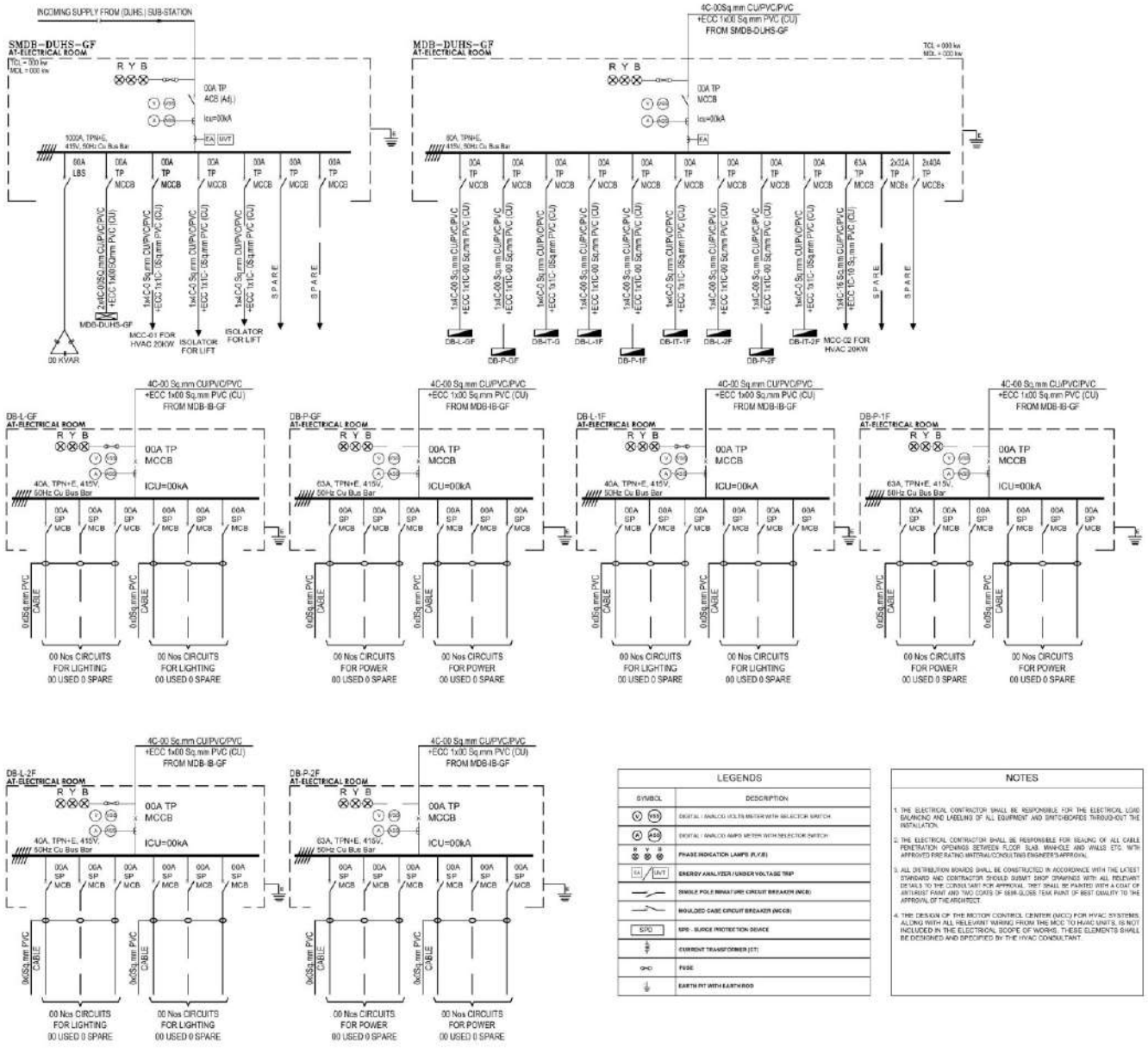
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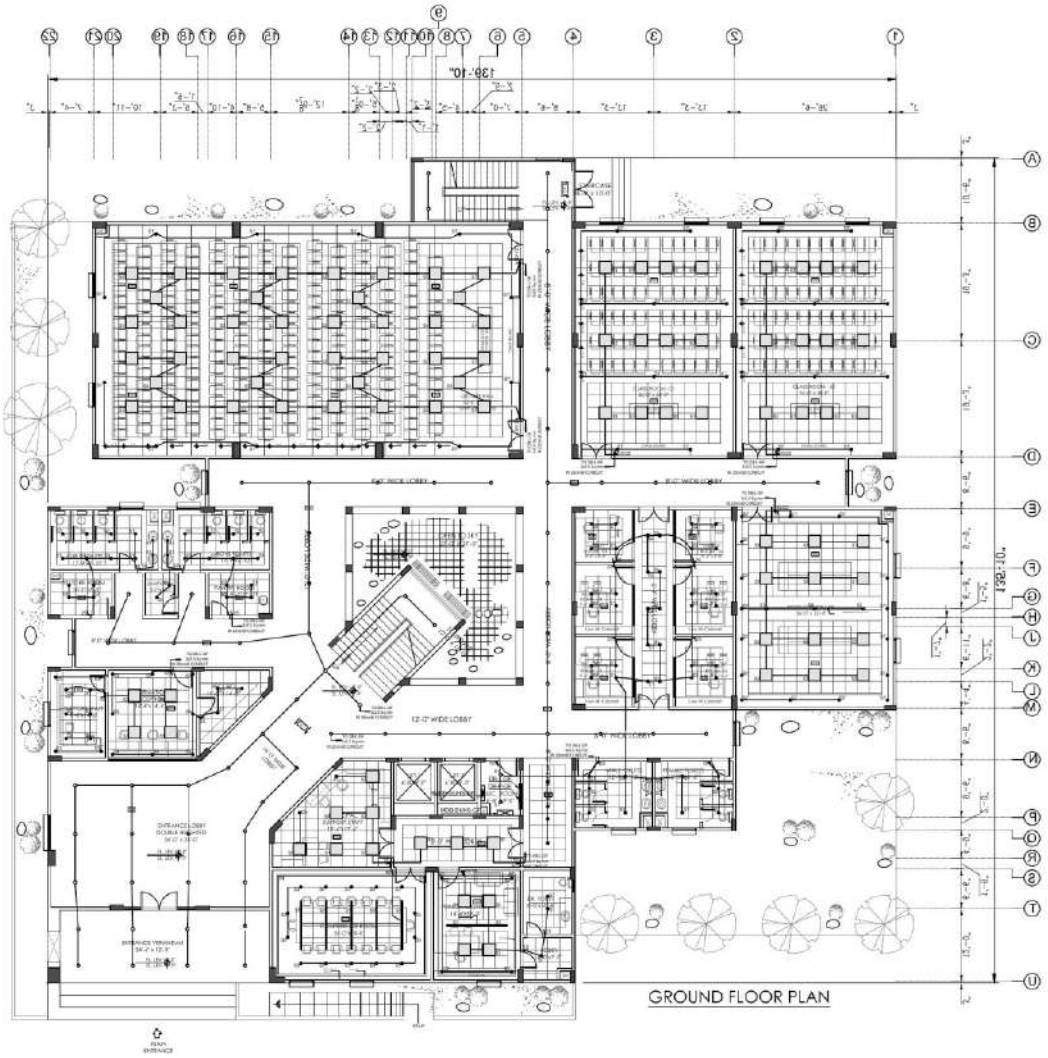
DATE: April 2025

CHECKED BY: Fahad

DRAWING NO: E-GE 003

REVISION NO:


INCOMING SUPPLY FROM (DUHS.) SUB-STATION
SMDB-DUHS-GF
AT-ELECTRICAL ROOM
TCL = 000 kw
MDL = 000 kw
R Y B
00A TP
ACB (Adj.)
Icu=00kA
1000A, TPN+E,
415V, 50Hz Cu Bus Bar
00A LBS
00A TP MCCB
00A TP MCCB
00A TP MCCB
00A TP MCCB
00A TP MCCB
00A TP MCCB
2x4C-00/50 mm CU/PVC/PVC +ECC 1x4C-95/50mm PVC (CU)
1x4C-0 Sq.mm CU/PVC/PVC +ECC 1x1C-35sq.mm PVC (CU)
1x4C-0 Sq.mm CU/PVC/PVC +ECC 1x1C-35sq.mm PVC (CU)
1x4C-0 Sq.mm CU/PVC/PVC +ECC 1x1C-35sq.mm PVC (CU)
SPARE
SPARE
MDB-DUHS-GF
MCC-01 FOR HVAC 20KW
ISOLATOR FOR LIFT
ISOLATOR FOR LIFT
00 KVAR
4C-00Sq.mm CU/PVC/PVC +ECC 1x00 Sq.mm PVC (CU) FROM SMDB-DUHS-GF
MDB-DUHS-GF
AT-ELECTRICAL ROOM
TCL = 000 kw
MDL = 000 kw
R Y B
00A TP MCCB
Icu=00kA
800A, TPN+E,
415V, 50Hz Cu Bus Bar
00A TP MCCB
63A TP MCCB
2x32A TP MCBs
2x40A TP MCCBs
1x4C-00 Sq.mm CU/PVC/PVC +ECC 1x1C-00 Sq.mm PVC (CU)
1x4C-16 Sq.mm CU/PVC/PVC +ECC 1x1C-10 Sq.mm PVC (CU)
SPARE
SPARE
DB-L-GF
DB-P-GF
DB-L-1F
DB-P-1F
DB-IT-GF
DB-L-2F
DB-IT-1F
DB-P-2F
DB-IT-2F
MCC-02 FOR HVAC 20KW
4C-00 Sq.mm CU/PVC/PVC +ECC 1x00 Sq.mm PVC (CU) FROM MDB-IB-GF
DB-L-GF
AT-ELECTRICAL ROOM
R Y B
00A TP MCCB
ICU=00kA
40A, TPN+E, 415V, 50Hz Cu Bus Bar
00A SP MCB
0x05Sq.mm PVC CABLE
00 Nos CIRCUITS FOR LIGHTING
00 USED 0 SPARE
00 Nos CIRCUITS FOR LIGHTING
00 USED 0 SPARE
DB-P-GF
AT-ELECTRICAL ROOM
63A, TPN+E, 415V, 50Hz Cu Bus Bar
00 Nos CIRCUITS FOR POWER
00 USED 0 SPARE
00 Nos CIRCUITS FOR POWER
00 USED 0 SPARE
DB-L-1F
AT-ELECTRICAL ROOM
00 Nos CIRCUITS FOR LIGHTING
00 USED 0 SPARE
00 Nos CIRCUITS FOR LIGHTING
00 USED 0 SPARE
DB-P-1F
AT-ELECTRICAL ROOM
00 Nos CIRCUITS FOR POWER
00 USED 0 SPARE
00 Nos CIRCUITS FOR POWER
00 USED 0 SPARE
DB-L-2F
AT-ELECTRICAL ROOM
00 Nos CIRCUITS FOR LIGHTING
00 USED 0 SPARE
00 Nos CIRCUITS FOR LIGHTING
00 USED 0 SPARE
DB-P-2F
AT-ELECTRICAL ROOM
00 Nos CIRCUITS FOR POWER
00 USED 0 SPARE
00 Nos CIRCUITS FOR POWER
00 USED 0 SPARE
LEGENDS
SYMBOL
DESCRIPTION
DIGITAL / ANALOG VOLTS METER WITH SELECTOR SWITCH
DIGITAL / ANALOG AMPS METER WITH SELECTOR SWITCH
PHASE INDICATION LAMPS (R,Y,B)
ENERGY ANALYZER / UNDER VOLTAGE TRIP
SINGLE POLE MINIATURE CIRCUIT BREAKER (MCB)
MOULDED CASE CIRCUIT BREAKER (MCCB)
SPD - SURGE PROTECTION DEVICE
CURRENT TRANSFORMER (CT)
FUSE
EARTH PIT WITH EARTH ROD
NOTES
1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL LOAD BALANCING AND LABELING OF ALL EQUIPMENT AND SWITCHBOARDS THROUGHOUT THE INSTALLATION.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING OF ALL CABLE PENETRATION OPENINGS BETWEEN FLOOR SLAB, MAN-HOLE AND WALLS ETC. WITH APPROVED FIRE RATING MATERIAL/CONSULTING ENGINEER'S APPROVAL.
3. ALL DISTRIBUTION BOARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARD AND CONTRACTOR SHOULD SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE CONSULTANT FOR APPROVAL. THEY SHALL BE PAINTED WITH A COAT OF ANTI-RUST PAINT AND TWO COATS OF SEMI-GLOSS TEMA POINT OF BEST QUALITY TO THE APPROVAL OF THE ARCHITECT.
4. THE DESIGN OF THE MOTION CONTROL CENTER (MCC) FOR HVAC SYSTEMS, ALONG WITH ALL RELEVANT WIRING FROM THE MCC TO HVAC UNITS, IS NOT INCLUDED IN THE ELECTRICAL SCOPE OF WORKS. THESE ELEMENTS SHALL BE DESIGNED AND SPECIFIED BY THE HVAC CONSULTANT.
GENERAL NOTES
NORTH
N
REVISION SCHEDULE
CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI
PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)
PROJECT NO:
DUHS-2314/E
DRAWING TITLE:
SINGLE LINE DIAGRAM
DRAWING STATUS:
TENDER DRAWING
DRAWN BY:
Zuki Hussain
SCALE:
N. T. S
DATE:
April 2025
CHECKED:
Fahad
DRAWING NO:
E-DE 004
REVISION NO:



GENERAL NOTES:

NORTH:

N

REVISION SCHEDULE

Rev. No.	Date	Description

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:

-DUHS-23 | 4/5

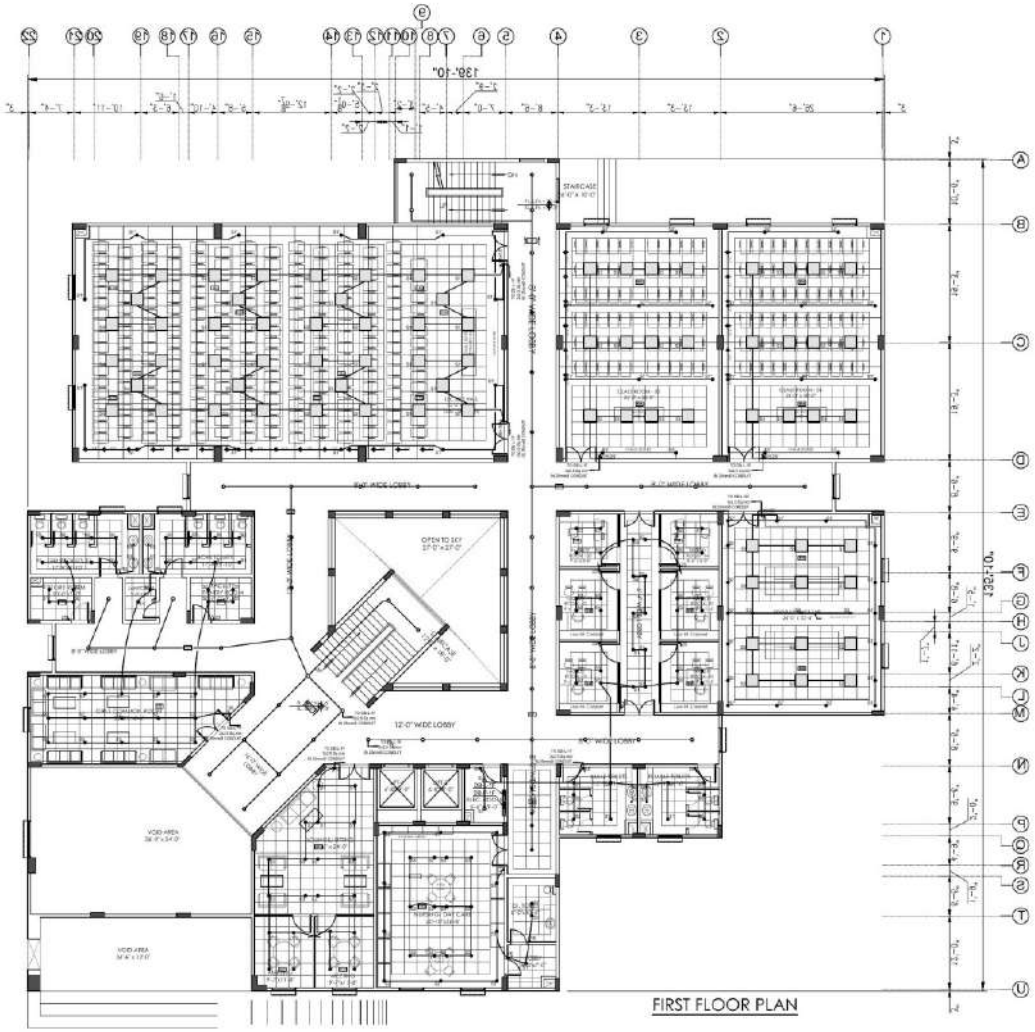
DRAWING TITLE:

GROUND FLOOR LIGHTING & EM LAYOUT

DRAWING STATUS:

TENDER DRAWING

	DRAWN BY: Zaid Hussain
SCALE: 1/32 = 1'-0"	
DATE: April 2025	ISSUED BY: Ishrat
DRAWING NO.: DU-EL-001	REVISION NO:



FIRST FLOOR PLAN

GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: :DUHS-2314/E

DRAWING TITLE:
FIRST FLOOR LIGHTING & EM LAYOUT

DRAWING STATUS:
TENDER DRAWING

DRAWN BY: Zuki Hassan

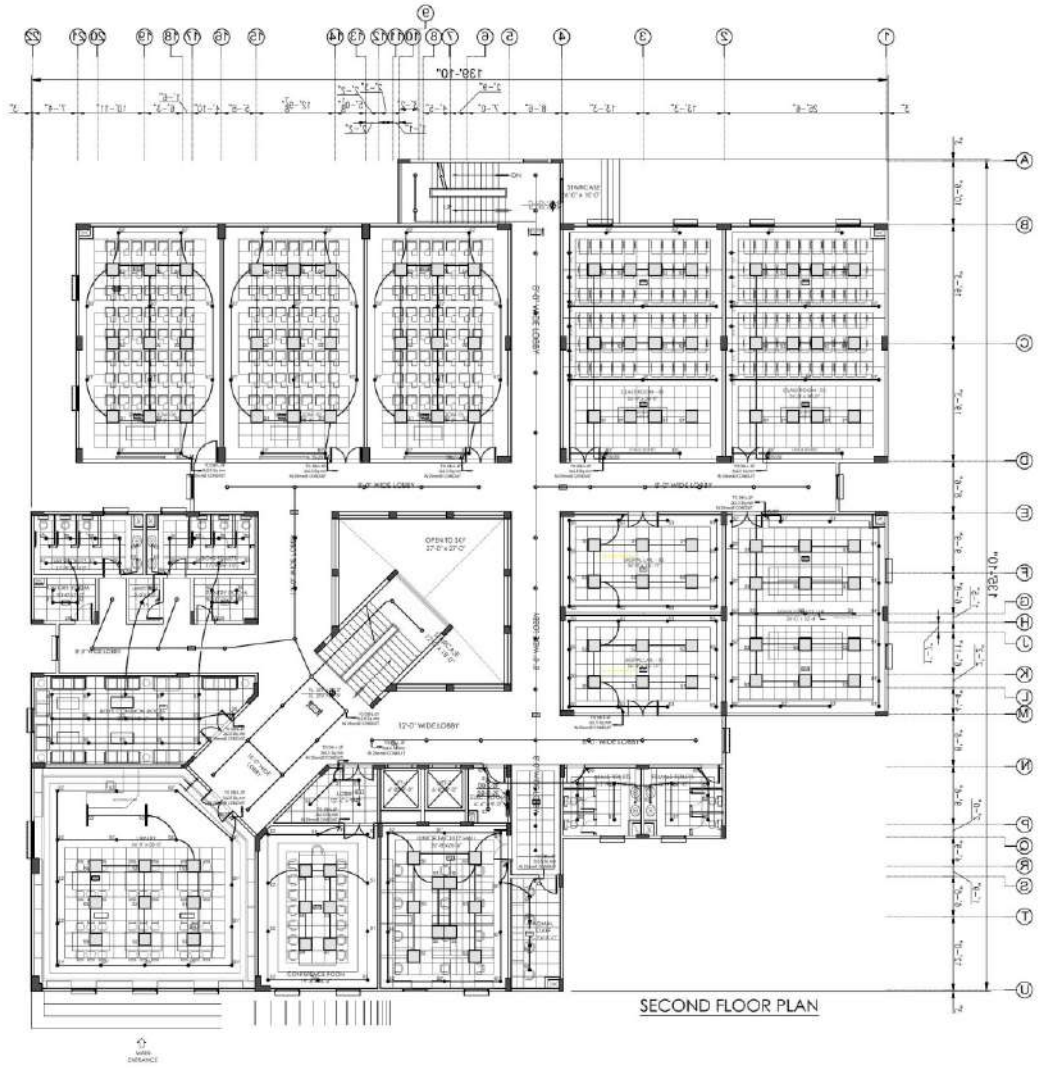
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DATE: April 2025

CHECKED: Fahad

DRAWING NO: DU-EL-002

REVISION NO:



GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: /DUHS-2314/E

DRAWING TITLE:
SECOND FLOOR LIGHTING & EM LAYOUT

DRAWING STATUS:
TENDER DRAWING

DRAWN BY: Zuki Hasan

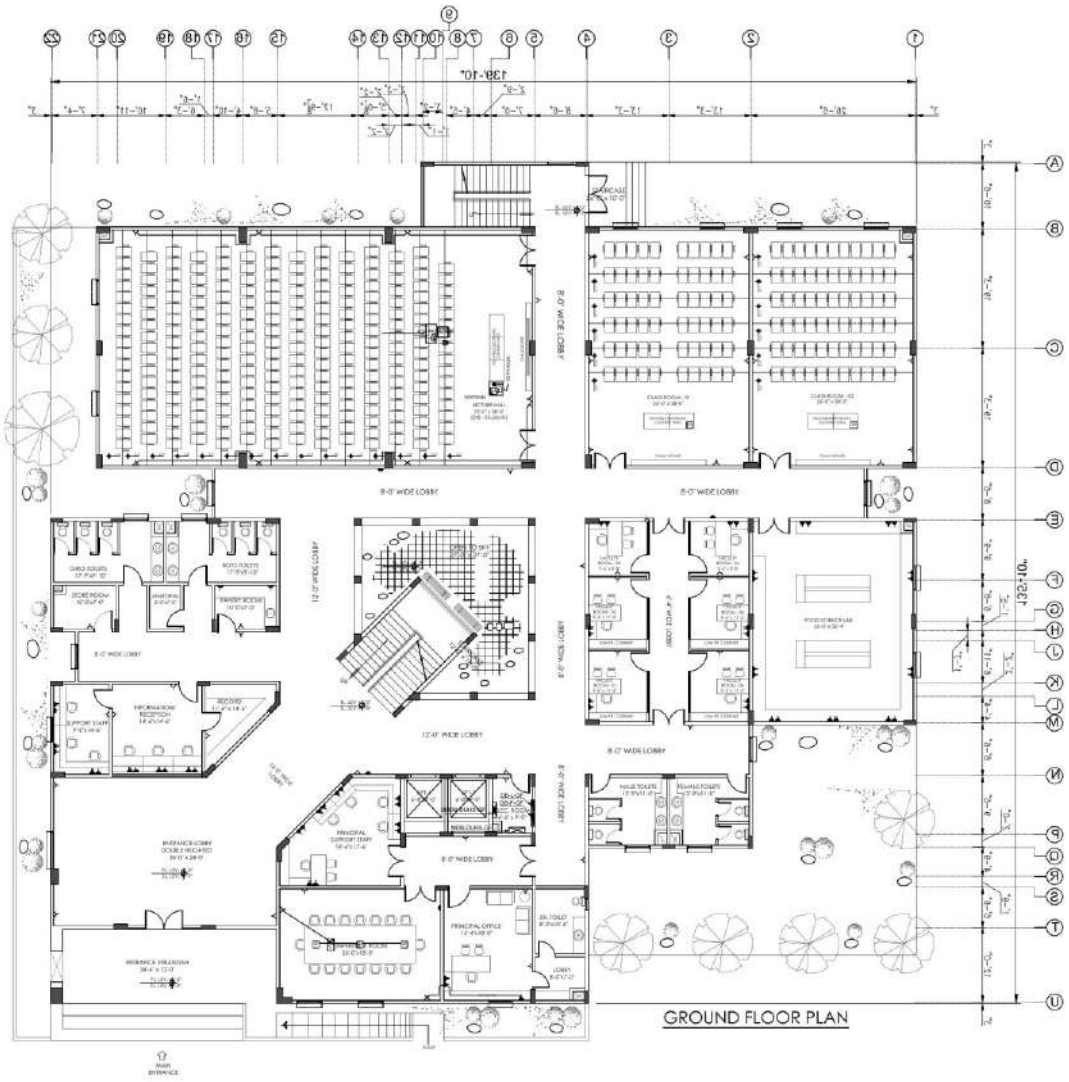
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DATE: April 2025

CHECKED: Fahad

DRAWING NO: DU-EL-003

REVISION NO:



GENERAL NOTES:

NORTH:

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-2314/E

DRAWING TITLE:
GROUND FLOOR POWER LAYOUT

DRAWING STATUS:
TENDER DRAWING

DRAWN BY:
ZAK HASSAN

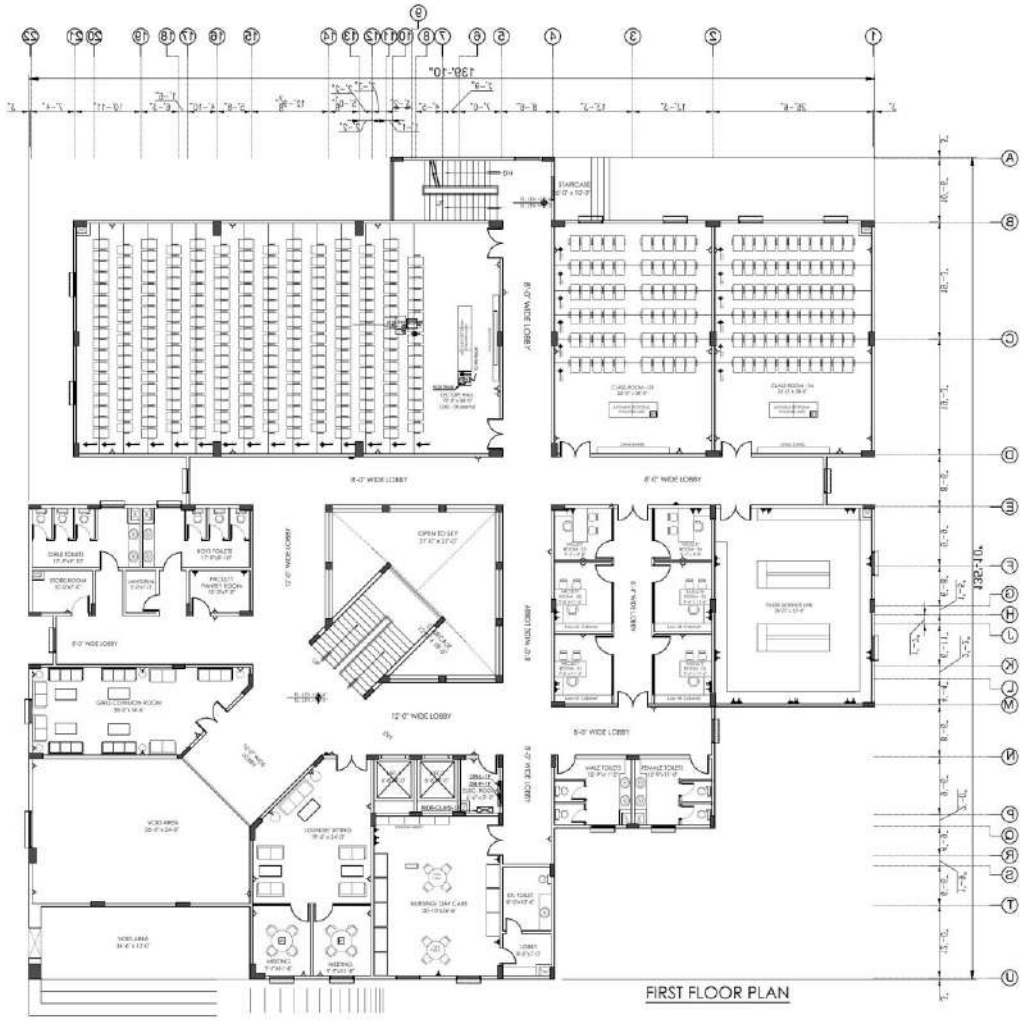
SCALE:
3/32" = 1'-0"

DATE:
April 2025

CHECKED BY:
Ishrat

DRAWING NO:
DU-EP-001

REVISION NO:



GENERAL NOTES:

NORTH:

N

REVISION SCHEDULE

No.	Date	Description

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:

DUHS-231-6/8

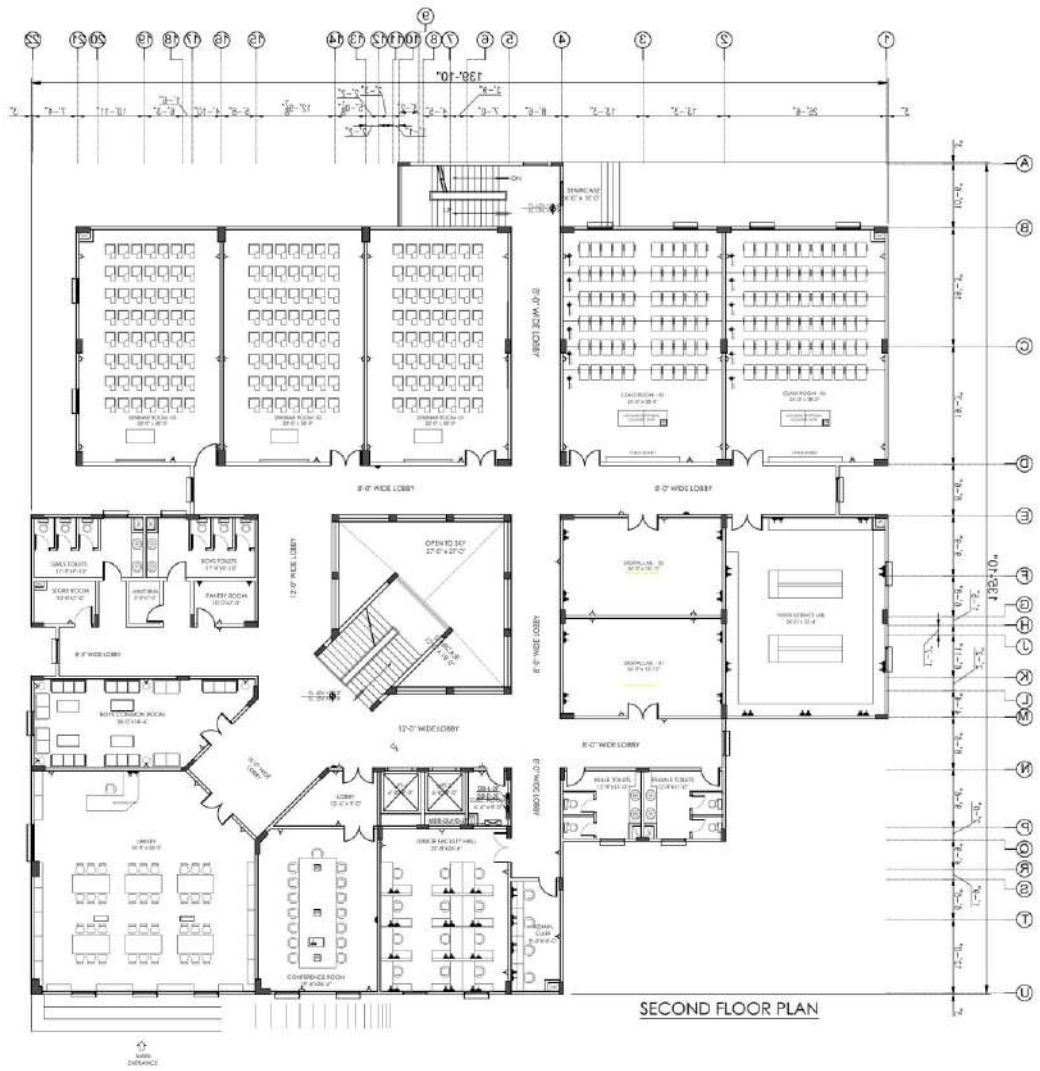
DRAWING TITLE:

FIRST FLOOR POWER LAYOUT

DRAWING STATUS:

TENDER DRAWING

	DRAWN BY: Zaki Hasan
SCALE: 3/32" = 1'-0"	
DATE: April 2025	DESIGN BY: Ishad
DRAWING NO.: DU-EP-002	REVISION NO.:



GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-2314/E

DRAWING TITLE: SECOND FLOOR POWER LAYOUT

DRAWING STATUS: TENDER DRAWING

DRAWN BY: Zuki Hassan

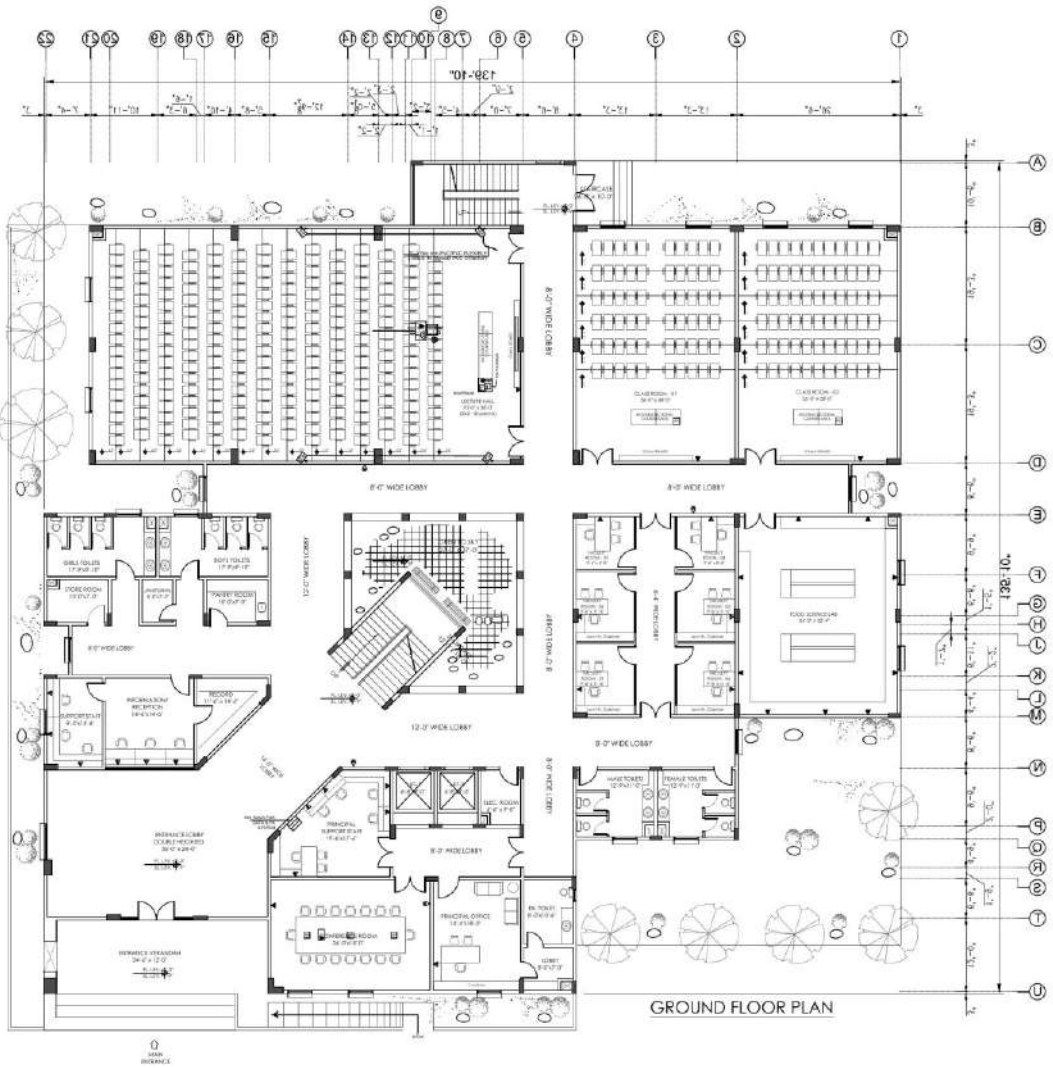
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DATE: April 2025

CHECKED BY: Fahad

DRAWING NO: DU-EP-003

REVISION NO:



GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-2314/E

DRAWING TITLE: GROUND FLOOR IT LAYOUT

DRAWING STATUS: TENDER DRAWING

DRAWN BY: Zuki Hassan

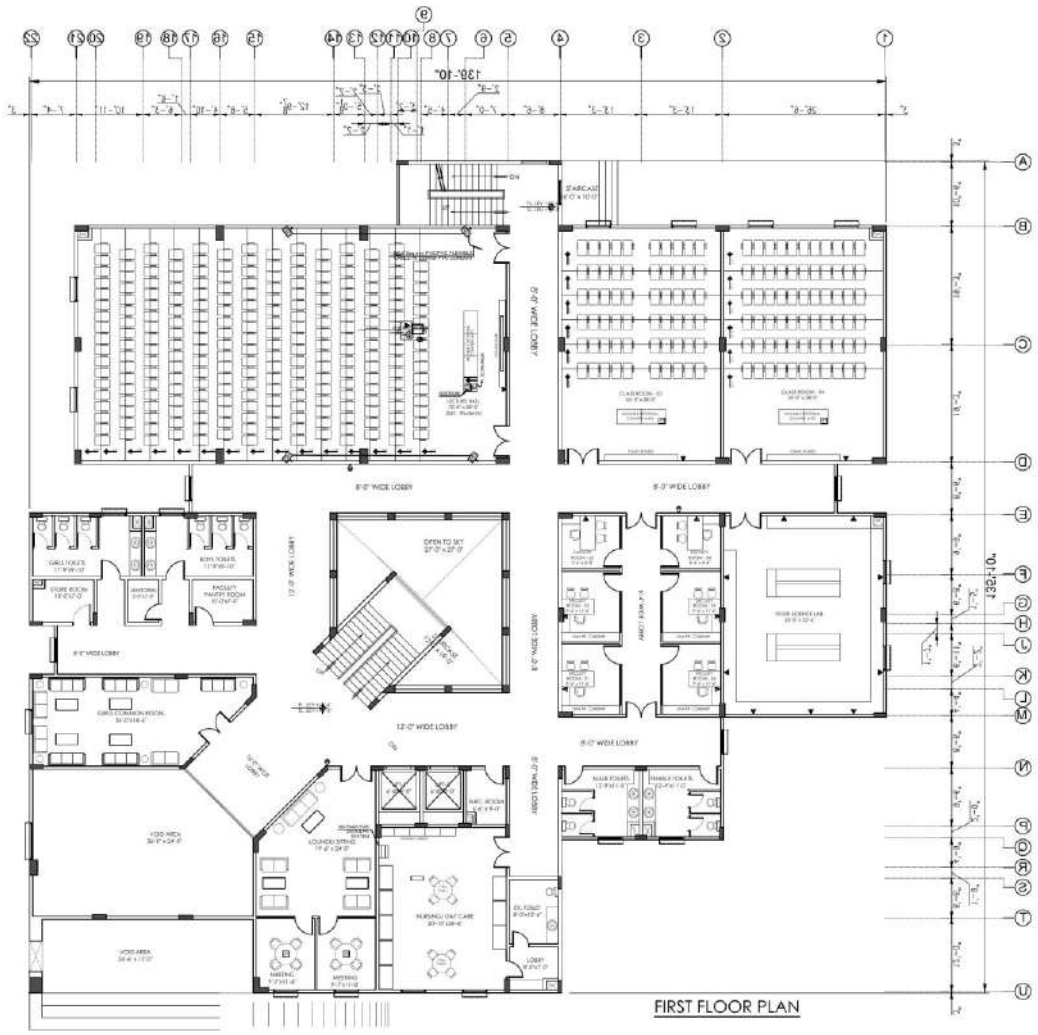
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DATE: April 2025

CHECKED BY: Fahad

DRAWING NO.: DU-E-001

REVISION NO.:



GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:

INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-2314/E

DRAWING TITLE: FIRST FLOOR IT LAYOUT

DRAWING STATUS: TENDER DRAWING

DRAWN BY: Zuki Hassan

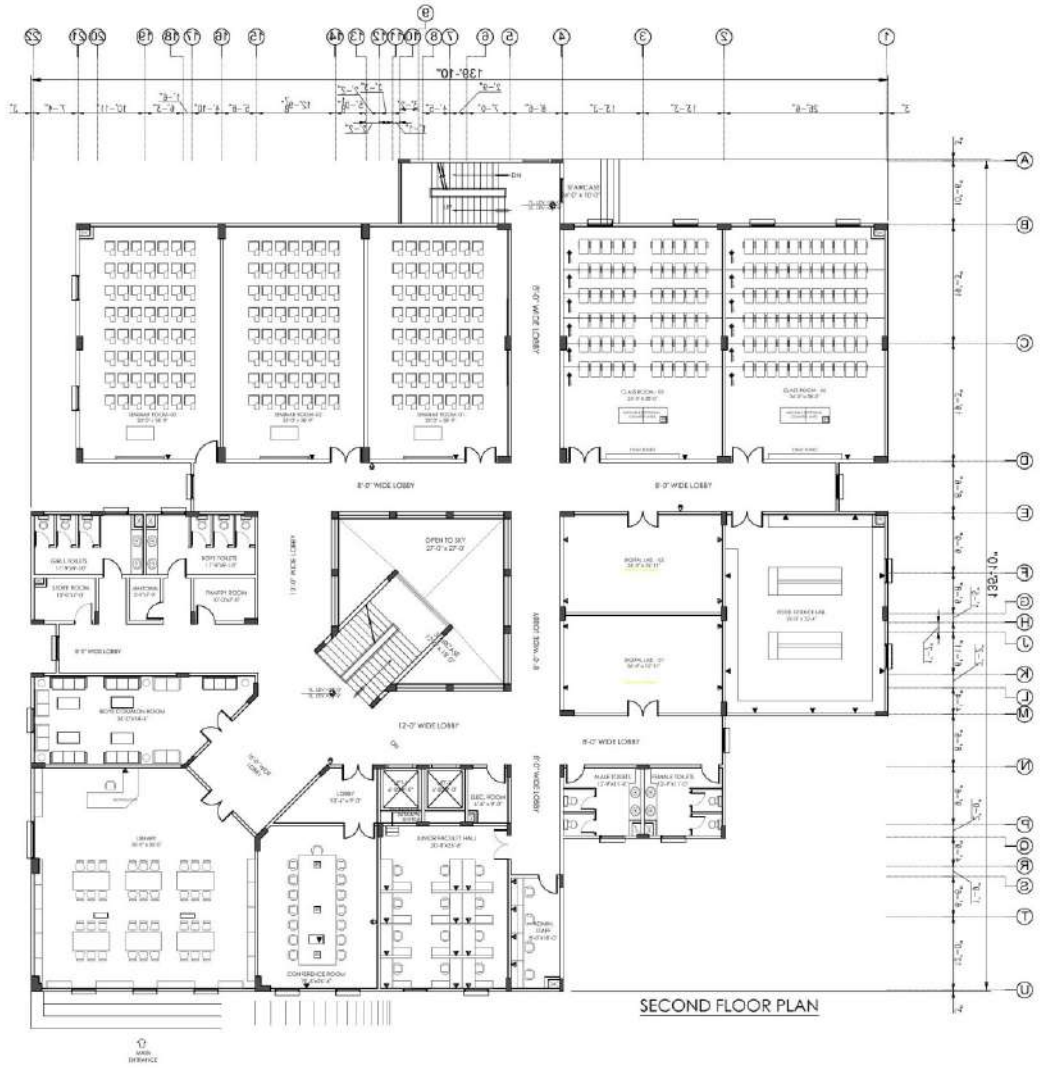
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DATE: April 2025

CHECKED BY: Fahad

DRAWING NO.: DU IT 002

REVISION NO.:



GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-2314/E

DRAWING TITLE: SECOND FLOOR IT LAYOUT

DRAWING STATUS: TENDER DRAWING

DRAWN BY: Zuki Hasan

SCALE: 3/32" = 1'-0"

CHECKED BY: Fahad

DATE: April 2025

DRAWING NO: DU IT 005

REVISION NO:



GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO: DUHS-2314/E

DRAWING TITLE: GROUND FLOOR FA & CCTV LAYOUT

DRAWING STATUS: TENDER DRAWING

DRAWN BY: Zuki Hassan

SCALE: 3/32 = 1'-0"

DATE: April 2025

CHECKED BY: Fahad

DRAWING NO.: DU FA-001

REVISION NO.:



GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-2314/E

DRAWING TITLE:
FIRST FLOOR FA & CCTV LAYOUT

DRAWING STATUS:
TENDER DRAWING

DRAWN BY:
Zuki Hassan

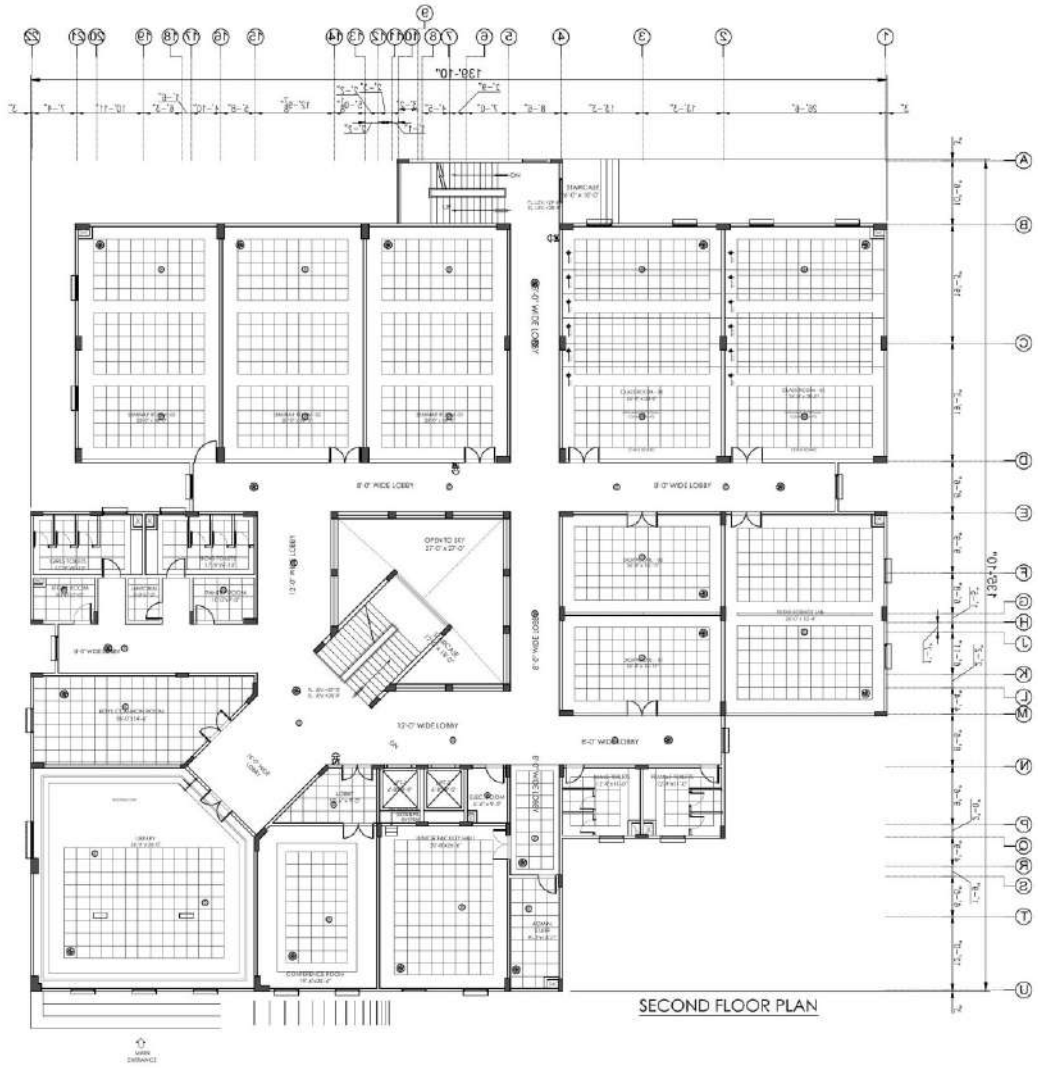
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DATE:
April 2025

CHECKED:
Fahad

DRAWING NO:
DU-FA-002

REVISION NO:



GENERAL NOTES

NORTH

N

REVISION SCHEDULE

CLIENT NAME:
DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI

PROJECT:
INSTITUTE OF MEDICAL TECHNOLOGY (IMT)

PROJECT NO:
DUHS-2314/E

DRAWING TITLE:
SECOND FLOOR FA & CCTV LAYOUT

DRAWING STATUS:
TENDER DRAWING

DRAWN BY:
Zuki Hassan

SCALE:
3/32" = 1'-0"

DATE:
April 2025

CHECKED:
Fahad

DRAWING NO:
DU-FA-003

REVISION NO:

FOUNDED BY QUAID-I-AZAM MOHAMMAD ALI JINNAH
DAWN
www.dawn.com

DOW UNIVERSITY OF HEALTH SCIENCES

NIT No. DUHS/W&S/2026/1915 **Dated: 09 October, 2026**

NOTICE INVITING TENDER (NIT)

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:	NAME OF TENDER	METHOD OF PROCUREMENT
1.	**CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI (REF. NO. DUHS/W&S-NIT/210)**	**Single Stage – One Envelope Procedure As per Rule 46 (1) of SPPRA, 2010 (Amended up to date)**
2.	**SUPPLY, FIXING, INSTALLATION & COMMISSIONING OF 450KW GRID TIED SOLAR SYSTEM AT WAREHOUSE, OJHA CAMPUS, DUHS KARACHI. (REF. NO. DUHS/W&S-NIT/211)**	
3.	**SUPPLY, FIXING, INSTALLATION & COMMISSIONING OF 500 KW GRID TIED SOLAR SYSTEM AT SEMINAR-HALL, OJHA CAMPUS, DUHS KARACHI. (REF. NO. DUHS/W&S-NIT/212)**	

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

The electronics bids must be submitted using EPADS before closing time 31-10-2026 at 10:00 Hrs. Manual bids, shall not be accepted. Electronic Bids will be opened on 31-10-2026 at 11:00 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. 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

www.duhs.edu.pk

THE DAILY JANG KARACHI

روزنامہ جنگ کراچی

بانی میر خلیل الرحمٰن

جلد 90 | ہفتہ 27 ربیع الثانی 1448ھ 10 اکتوبر 2026ء | نمبر 277

DOW UNIVERSITY OF HEALTH SCIENCES

این آئی ٹی نمبر: DUHS/W&S/2026/1915 بتاریخ: 9 اکتوبر 2026

بولیاں مطلوب ہیں

ڈاؤ یونیورسٹی آف ہیلتھ سائنسز (ڈی یو ایچ ایس) کراچی ایک پبلک سیکٹر یونیورسٹی ہے جسے ای پاک ایکیوزیشن اینڈ ڈسپوزل سسٹم (EPADS) کے ذریعے فیڈرل بورڈ آف ریونیو ایف بی آر/انکم ٹیکس ڈپارٹمنٹ/سندھ ریونیو سروس بورڈ اور سیلز ٹیکس سے رجسٹرڈ مستحکم کمپنیوں/بولی دہندگان/فرمز سے ای بولیاں مطلوب ہیں۔

S. NO:	NAME OF TENDER	METHOD OF PROCUREMENT
1.	CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI (REF. NO. DUHS/W&S-NIT/210)	Single Stage – One Envelope Procedure As per Rule 46 (1) of SPPRA, 2010 (Amended up to date)
2.	SUPPLY, FIXING, INSTALLATION & COMMISSIONING OF 450KW GRID TIED SOLAR SYSTEM AT WAREHOUSE, OJHA CAMPUS, DUHS KARACHI. (REF. NO. DUHS/W&S-NIT/211)	
3.	SUPPLY, FIXING, INSTALLATION & COMMISSIONING OF 500 KW GRID TIED SOLAR SYSTEM AT SEMINAR-HALL, OJHA CAMPUS, DUHS KARACHI. (REF. NO. DUHS/W&S-NIT/212)	

ٹینڈر نوٹس	-/5,000 (پانچ ہزار روپے) ناقابل واپسی بشکل پے آرڈر/ڈیمانڈ ڈرافٹ بنام ڈاؤ یونیورسٹی آف ہیلتھ سائنسز، کراچی۔
سکیورٹی	بڈ سکیورٹی اور پرفارمنس سکیورٹی جو بولی دستاویزات میں مذکور ہے۔

رجسٹرڈ بولی دہندگان کیلئے مفصل شرائط و ضوابط، تصریحات اور ریکوائرمنٹس پر مبنی ای بولی دستاویزات سندھ پبلک پروکیورمنٹ ریگولیٹری اتھارٹی ای پیڈ ویب سائیٹ https://portalsindh.eprocure.gov.pk/#/ اور یونیورسٹی ویب سائیٹ https://duhs.edu.pk پر دستیاب ہیں۔

الیکٹرانک بولیاں لازماً EPADS کے ذریعے بولی کا وقت ختم ہونے سے قبل مورخہ 31 اکتوبر 2026 بوقت صبح 10:00 بجے تک جمع کرائی جائیں۔ دستی بولیاں وصول نہیں کی جائیں گی۔ الیکٹرانک بولیاں مورخہ 31 اکتوبر 2026 صبح 11:00 بجے کھولی جائینگی۔ ای بڈنگ سے متعلق کسی بھی معلومات کیلئے، برائے مہربانی فسیلیٹیٹر/کوآرڈینیٹر، پروکیورمنٹ کمیٹی سروسز سے ایڈمن بلاک، پانچویں منزل، ڈی ایم سی کیمپس، بابائے اردو روڈ نزد سول ہسپتال کراچی، فون نمبر 021-38771000 (ایکسٹینشن 5907 / 5820) پر رابطہ کریں۔ ٹینڈر فیس (ناقابل واپسی) اور بڈ سکیورٹی (قابل واپسی) پاکستان کے شیڈولڈ بینک سے جاری کردہ پے آرڈر/ڈیمانڈ ڈرافٹ/بینک گارنٹی کی صورت میں ڈاؤ یونیورسٹی آف ہیلتھ سائنسز، کراچی کے نام جمع کروانا لازماً فسیلیٹیٹر/کوآرڈینیٹر، پروکیورمنٹ کمیٹی کے مندرجہ بالا دفتر میں اسی ایڈریس پر پہنچائی جائے۔

حکومت کی جانب سے تعطیل یا غیر یقینی صورتحال کے سبب ٹینڈر/بولیاں اس کے اگلے ہی روز اسی مقام اور وقت پر آن لائن جمع/کھولی جائیں گی۔

پروکیورنگ ایجنسی ایس پی پی رولز 2010 کی متعلقہ دفعات (آج کی تاریخ تک ترمیم شدہ) کے تحت کسی بھی یا تمام بولیوں کو مسترد کرنے کا حق محفوظ رکھتی ہے اور متعلقہ قوانین کے "رُول -25" کے تحت پیشکش یا بولی کی منظوری سے قبل کسی بھی وقت بولی کے عمل کو معطل کرسکتی ہے۔ این آئی ٹی اور ٹینڈر دستاویز کے درمیان ابہام کی صورت میں، ٹینڈر کو فوقیت دی جائیگی۔

ڈائریکٹر ورکس اینڈ سروسز
ڈاؤ یونیورسٹی آف ہیلتھ سائنسز، کراچی۔

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DOW UNIVERSITY OF HEALTH SCIENCES

حوالہ نمبر: DUHS/W&S/2026/1915 مورخہ: 9 اکتوبر 2026

واڪ گھربل آھي

ڊائو يونيورسٽي آف هيلٿ سائنسز (ڊي يو ايڇ ايس) ڪراچي هڪ بيلڪ سيڪٽر يونيورسٽي آهي جيڪا اي پاڪ ايڪيوزيشن اينڊ ڊسپوزل سسٽم (EPADS) جي ذريعي فيڊرل بورڊ آف ريونيو ايف بي آر / انڪم ٽيڪس ڊپارٽمينٽ / سنڌ ريونيو سروس بورڊ ۽ سيلز ٽيڪس سان رجسٽرڊ مستحق ڪمپنين / واڪ ڏيندڙن / فرمز کان اي-واڪ طلب ڪري رهي آهي.

S. NO:	NAME OF TENDER	METHOD OF PROCUREMENT
1.	CONSTRUCTION OF DOW INSTITUTE OF MEDICAL TECHNOLOGY (DIMT), AT OJHA CAMPUS, DUHS, KARACHI (REF. NO. DUHS/W&S-NIT/210)	Single Stage – One Envelope Procedure As per Rule 46 (1) of SPPRA, 2010 (Amended up to date)
2.	SUPPLY, FIXING, INSTALLATION & COMMISSIONING OF 450KW GRID TIED SOLAR SYSTEM AT WAREHOUSE, OJHA CAMPUS, DUHS KARACHI. (REF. NO. DUHS/W&S-NIT/211)	
3.	SUPPLY, FIXING, INSTALLATION & COMMISSIONING OF 500 KW GRID TIED SOLAR SYSTEM AT SEMINAR-HALL, OJHA CAMPUS, DUHS KARACHI. (REF. NO. DUHS/W&S-NIT/212)	

ٽينڈر فيس	5,000/ (پنج هزار رپيا) ناقابل رفنڊ ڊاؤ يونيورسٽي هيلٿ سائنسز، ڪراچي جي حق ۾ پي آرڊر/ڊيمانڊ ڊرافٽ جي صورت ۾
سيڪيورٽي	بڊ سيڪيورٽي ۽ ڪارڪردگي سيڪيورٽي جي شرح بڊنگ دستاويزن ۾ ذڪر ڪيل آهي.

رجسٽرڊ واڪ ڏيندڙن جي لاءِ تفصيلي شرطن ۽ ضابطن، وضاحتن ۽ گھربل ٽي بڊل اي-واڪ دستاويز سنڌ پبلڪ پروڪيورمينٽ ريگوليٽري اٿارٽي اي-پيڊ ويب سائيٽ https://portalsindh.cprocure.gov.pk/#/ يونيورسٽي جي ويب سائيٽ https://duhs.edu.pk تي موجود آهي.

جمع ٿيل واڪ EPADS ذريعي 31 آڪٽوبر 2026ع تي صبح جو 10:00 وڳي تائين واڪ جي بند ٿيڻ واري وقت کان اڳ جمع ڪرائڻ گھرجن. دستي آڇون قبول نه ڪيون ويندیون. اليڪٽرانڪ واڪ 31 آڪٽوبر 2026ع تي صبح جو 11:00 وڳي تائين قبول ڪيا ويندا. اي-بڊنگ جي حوالي سان ڪنهن به معلومات لاءِ، مهرباني ڪري فيسيليٽيٽر/ ڪنوارڊينيٽر پروڪيورمينٽ ڪميٽي سروسز ايڊمن بلاڪ پنجين منزل، ڊي ايڇ سي ڪيمپس، باباءِ اردو نزد سول اسپتال ڪراچي، فون نمبر 021-38771000 (ايڪسٽينشن 5907 / 5820) سان رابطو ڪريو.

ٽينڈر فيس (ناقابل رفنڊ) ۽ بڊ سيڪيورٽي (رفنڊ ٿيڻ لائق) بينڪ ڊرافٽ جي شيڊول بينڪ سان جاري ٿيل وچي، بينڪ گارنٽي جي صورت ۾ پي آرڊر / ڊيمانڊ ڊرافٽ ڊاؤ يونيورسٽي آف هيلٿ سائنسز ڪراچي ڪي اڪائونٽ وچي ۽ پروڪيورمينٽ ڪميٽي جي فيسيليٽيٽر/ ڪنوارڊينيٽر جي حق ۾ ڪڍيل پي او جا هجڻ گھرجن.

سرڪاري مڪمل يا اڌ ملڪيتي صورتحال جي صورت ۾، ٽينڈر آڇڻ ۾ ڏينهن ساڪٽي هنڊ ۽ وقت جي ان لائن جمع ڪرائڻ / کولڻ ويندیون.

خريداري ايڪٽ پي پي آر اي رولز 2010ع جي لاڳاپيل شقن (جيڪي نه تاريخ تائين ترميم ڪئي وئي آهي) جي تحت ڪنهن به يا سڀني آڇن کي رد ڪرڻ جو حق محفوظ رکي ٿي ۽ لاڳاپيل قاعدن جي ضابطي 25 جي تحت آڇ يا واڪ جي فيصلي کان اڳ ڪنهن به وقت واڪ جي عمل کي معطل ڪري سگھي ٿي. اين آر ٽي ۽ ٽينڈر دستاويز جي درج ٿيل ڪنهن به ابهام جي صورت ۾، ٽينڈر کي فرقيت ڏني وڃندي.

ڊائريڪٽر ورڪس اينڊ سروسز
ڊاؤ يونيورسٽي آف هيلٿ سائنسز، ڪراچي.

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