

**STANDARD FORM OF BIDDING DOCUMENTS
(Civil Works)**

**RENOVATION OF 4TH FLOOR (PORTION UNDER PPMC),
EVACUEE TRUST COMPLEX ISLAMABAD, INCLUDING
CIVIL WORKS, PLUMBING AND ELECTRICAL WORKS,
COMMUNICATION AND FIRE SEPARATION WORK**



**OFFICE OF TEAM LEAD (ADMN) PPMC
Evacuee Trust Complex, F-5/1, Agha Khan Road,
Islamabad**

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FORM OF BID AND APPENDICES TO BID

FORM OF BID

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Appendix-E to Bid	: Proposed Construction Schedule
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MOBILIZATION ADVANCE GUARANTEE/BOND

PART-I: GENERAL CONDITIONS OF CONTRACT

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DRAWINGS

POWER PLANNING AND MONITORING COMPANY



TENDER/BIDDING DOCUMENTS

**INVITATION
FOR
BIDS**

INVITATION FOR BIDS

Date: _____

1. The Employer invites sealed bids from eligible firms or persons licensed by the Pakistan Engineering Council in the appropriate category for the Works. A foreign bidder is entitled to bid only in a joint venture with a Pakistani constructor in accordance with the relevant provisions of PEC bye-laws.
2. A complete set of bidding documents is available at EPADS Portal (www.eprocure.gov.pk) and PPMC website (www.ppmc.gov.pk), which can be downloaded till **11:00 am** on **15.04.2026**.
3. All bids must be accompanied by an original bid security amounting to Rs. 3,000,000 (Rupees Three Million only), in an acceptable form as specified in the bidding documents, in favor of “ Team Lead (Admn), PPMC, Office # 112, 1st Floor, Evacuee Trust Complex, F-5/1, Agha Khan Road, Islamabad”.

**INSTRUCTIONS
TO
BIDDERS**

INSTRUCTIONS TO BIDDERS

(Note: These Instructions to Bidders along with Bidding Data will not be part of the Contract and will cease to have effect once the contract is signed.)

A. GENERAL

IB.1 Scope of Bid

1.1 The Employer as defined in the Bidding Data hereinafter called “the Employer” 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 The Employer has Own Resource Development Budget allocated for this work.

IB.3 Eligible Bidders

3.1 This Invitation for Bids is open to all bidders meeting the following requirements:

a. Duly licensed by the Pakistan Engineering Council (PEC) in the category relevant to the value of the Works.

IB.4 One Bid per Bidder

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

IB.5 Cost of Bidding

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

IB.6 Site Visit

- 6.1 The bidders are advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the bid and entering a contract for construction of the Works. All costs 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 Employer 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 Employer, 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.

B. BIDDING DOCUMENTS

IB.7 Contents of Bidding Documents

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

IB.8 Clarification of Bidding Documents

- 8.1 Any prospective bidder requiring clarification(s) regarding the Bidding Documents may submit their queries through EPADS or raise them during the pre-bid meeting. Responses to these queries, along with the minutes of the pre-bid meeting, will be published on EPADS.

IB.9 Amendment of Bidding Documents

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

C. PREPARATION OF BIDS

IB.10 Language of Bid

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

IB.11 Documents Accompanying the Bid

- 11.1 Each bidder shall:
 - (a) submit a written power of attorney authorizing the signatory of the bid to act for and on behalf of the bidder;
 - (i) Evidence of access to financial resources along with average annual construction turnover;
 - (ii) Financial predictions for the current year and the two following years including the effect of known commitments;
 - (iii) Work commitments since prequalification;
 - (iv) Current litigation information; and
 - (v) Availability of critical equipment.
 - and
 - (b) furnish a technical proposal considering 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

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- 11.2 Bids submitted by a joint venture of two (2) or more firms shall comply with the following requirements:
- (a) the bid and in case of a successful bid, the Form of Contract Agreement shall be signed so as to be legally binding on all partners;
 - (b) one of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;
 - (c) the partner-in-charge shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;
 - (d) all partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(b) above as well as in the Form of Bid and in the Form of Contract Agreement (in case of a successful bid); and
 - (e) a copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partner without prior written consent of the Employer.
- 11.3 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the Bidders' proposals to meet the technical specifications and the completion time referred to in Sub-Clause 1.2 hereof.

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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 Sub-Clause 1.1 hereof, based on the unit rates and / or prices submitted by the bidder.
- 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 by a bidder will not be paid for by the Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.

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

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

- 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 70 of the Conditions of Contract. The bidders shall furnish the prescribed information for the price adjustment formulae in Appendix-C to Bid, and shall submit with their bids such other supporting information as required under the said Clause.

IB.13 Currencies of Bid and Payment

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer'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 his bid.
- 13.2 The rates of exchange to be used by the bidder for currency conversion shall be the TT&OD Selling Rates published or authorized by the State Bank of Pakistan prevailing on the date 28 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 after the Date of Bid Opening specified in Clause IB.23.
- 14.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the bidders extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.15 in all respects.

IB.15 Bid Security

- 15.1 Each bidder shall furnish, as part of his bid, a Bid Security in the amount stipulated in the Bidding Data in Pak Rupees 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 or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan in favour of the Employer valid for a period 28 days beyond the Bid Validity date.
- 15.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.
- 15.4 The bid securities of unsuccessful bidders will be returned as promptly as possible, but not later than 28 days after the expiration of the period of Bid Validity.
- 15.5 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.
- 15.6 The Bid Security may be forfeited:
 - (a) if the bidder withdraws his bid except as provided in Sub-Clause 22.1;
 - (b) if the bidder does not accept the correction of his Bid Price pursuant to Sub-Clause 27.2 hereof; or

- (c) In the case of successful bidder, if he fails within the specified time limit to:
 - (i) furnish the required Performance Security; or
 - (ii) sign the Contract Agreement.

IB.16 Alternate Proposals by Bidder

- 16.1 Should any bidder consider that he can offer any advantages to the Employer by a modification to the designs, specifications or other conditions, he may, in addition to his bid to be submitted in strict compliance with the Bidding Documents, submit any Alternate Proposal(s) containing (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details / conditions, provided always that the total sum entered on the Form of Bid shall be that which represents complete compliance with the Bidding Documents.
- 16.2 Alternate Proposal(s), if any, of the lowest evaluated responsive bidder only may be considered by the Employer as the basis for the award of Contract to such bidder.

IB.17 Pre-Bid Meeting

- 17.1 A pre-bid meeting will be held on **07.04.2026** at **11:00 am** at PPMC, Office # 112, 1st Floor, Evacuee Trust Complex, F-5/1, Agha Khan Road, Islamabad. All prospective bidders are encouraged to attend for clarifications regarding the bidding documents.
- 17.2 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be uploaded on EPADS. Any modification of the Bidding Documents listed in Sub-Clause 7.1 hereof which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause IB.9.
- 17.3 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 No alteration is to be made in the Form of Bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 18.4 Each bidder shall prepare by filling out the forms completely and without alterations one (1) original and number of copies, specified in the Bidding Data, of the documents comprising the bid as described in Clause IB.7 and clearly mark them "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
- 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 or persons duly authorized to sign on behalf of the bidder pursuant to Sub- Clause 11.1(a) hereof. All pages of the bid shall be initialled and stamped by the person or persons signing the bid.
- 18.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, or as are necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person or persons signing the bid.
- 18.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent.

D. SUBMISSION OF BIDS**IB.19 Sealing and Marking of Bids**

- 19.1 Each bidder shall submit his bid as under:
 - (a) The bid shall comprise a single package containing two separate folders/tabs. The folder/tab shall be marked as "TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL".
 - (b) Folder for Technical Proposal should contain the complete Technical Bid and Folder/Tab No. 2 will contain only the financial bid only.

IB.20 Deadline for Submission of Bids

- 20.1 The Employer may, at his discretion, extend the deadline for submission of bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

E. BID OPENING AND EVALUATION

IB.23 Bid Opening

- 23.1 The Employer will open the bids, in the presence of bidders' representatives who choose to attend, at the time, date and location stipulated in the Bidding Data. The bidders' representatives who are present shall sign a register evidencing their attendance.
- 23.2 The bidder's name, total Bid Price and price of any Alternate Proposal(s), any discounts, bid modifications, substitution and withdrawals, the presence or absence of Bid Security, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening of bids.

- 23.4 Employer shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the Sub-Clause 23.3.

IB.24 Process to be Confidential

- 24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid evaluation report which shall be done at least ten (10) days prior to issue of Letter of Acceptance. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated. Any effort by a bidder to influence the Employer's processing of bids or award decisions may result in the rejection of such bidder's bid. Whereas any bidder feeling aggrieved may lodge a written complaint not later than fifteen (15) days after the announcement of the bid evaluation report; however mere fact of lodging a complaint shall not warrant suspension of the procurement process.

IB.25 Clarification of Bids

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

IB.26 Examination of Bids and Determination of Responsiveness

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

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

IB.27 Correction of Errors

- 27.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:
- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
 - (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.
- 27.2 The amount stated in the Form of Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected Bid Price, his Bid will be rejected, and the Bid Security shall be forfeited in accordance with Sub- Clause 15.6(b) hereof.

IB.28 Evaluation and Comparison of Bids

- 28.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26.
- 28.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:
- (a) making any correction for errors pursuant to Clause IB.27;
 - (b) excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities, but including competitively priced Daywork; and
 - (c) making an appropriate adjustment for any other acceptable variation or deviation.
- 28.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.

- 28.4 If the Bid of the successful bidder is seriously unbalanced in relation to the Employer's estimate of the cost of work to be performed under the Contract, the Employer may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the Performance Security set forth in Clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful bidder under the Contract.

F. AWARD OF CONTRACT

IB.29 Award

- 29.1 Subject to Clauses IB.30 and IB.34, the Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be eligible in accordance with the provisions of Clause IB.3 and qualify pursuant to Sub-Clause IB 29.2.
- 29.2 The Employer, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in supplier's or contractor's capacities, may require the suppliers or contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

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

IB.30 Employer's Right to Accept any Bid and to Reject any or all Bids

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

IB.31 Notification of Award

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

IB.32 Performance Security

- 32.1 The successful bidder shall furnish to the Employer a Performance Security in the form 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.

IB.33 Signing of Contract Agreement

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

IB.34 General Performance of the Bidders

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

IB.35 Integrity Pact

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

IB.36 Instructions not Part of Contract

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

BIDDING DATA

BIDDING DATA

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

Instructions to Bidders

Clause Reference

1.1 Name and address of the Employer:

The Employer is **PPMC**. Name and address of the Employer's representative for the purpose of correspondence is :

Team Lead (Admn) PPMC

Office No.112, 1st Floor Evacuee Trust Complex, F-5/1, Agha Khan Road, Islamabad.

1.1 Name of the Project & Summary of the Works:

RENOVATION OF 4TH FLOOR (PORTION UNDER PPMC), EVACUEE TRUST COMPLEX ISLAMABAD, INCLUDING CIVIL WORKS, PLUMBING AND ELECTRICAL WORKS, COMMUNICATION AND FIRE SEPARATION WORK.

2.1 Name of the Borrower/Source of Financing/Funding Agency:

PPMC Own Resource Development Budget allocated for this work

3.1 The Sub Clause 3.1 is substituted with the following:

- a- Duly licensed and renewed by Pakistan Engineering Council (PEC) in CE-10, EE-04 and financial category of C-4 and above.**
- b- In case of Joint Venture, each Partner must possess PEC Licence. Number of Partners should not be more than two (02).**
- c- Bidders including all members of Joint Venture and all Sub-Contractors to Bidders shall not be under liquidation nor blacklisted by PPMC/ WAPDA/ NTDC / other Government Departments.**

4.1 Each Bidder shall submit only one bid (Technical & Financial proposals separately) either by himself or as a partner in a joint venture. A bidder who submits or participates in more than one bid for each work will be disqualified.

7. Contents of Bidding Documents

The existing text of sub-clause 7.1 is deleted and replaced with the following text:

7.1 The Sr. Nos. of items given from 1 to 13 in this Sub-Clause are re-arranged / amended after addition of Form of Qualification as follows:

1. **Instructions to Bidders.**
2. **Bidding Data.**
3. **General Conditions of Contract, Part-I (GCC).**
4. **Particular Conditions of Contract, Part-II (PCC).**
5. **Form of Bid & Appendices to Bid.**
6. **Form of Bid Security.**
7. **Form of Contract Agreement.**
8. **Forms of Performance Security and Mobilization Advance Guarantee.**
9. **Forms of Qualification**
10. **Special Provisions.**
11. **Technical Specifications.**
12. **Tender Drawings.**
13. **Bill of Quantities (Appendix-D to Bid).**

8.1 Time limit for clarification:
Clarifications can be sought on EPADS till 07.04.2026.

10.1 Bid language:
The bid language shall be English

11.1(a) **Add the following at the end of existing text:**

“The bidder shall complete, sign and stamp the form of bid, all appendices to Bid and schedule of price furnished in the Bidding Documents”.

Sub-Clause 11.1(b) is substituted with the following text:

11.1(b) “The Bidder shall submit Qualification information as required in Attachment to Bidding Data (BD).

- (i) The Employer shall determine to its satisfaction whether the Bidder is eligible and meets the Qualification criteria specified in Attachment to Bidding Data (BD).**
- (ii) The determination shall be based upon an examination of documentary evidence of the Bidder’s qualifications submitted by the Bidder, pursuant to Attachment to BD.**
- (iii) An affirmative determination shall be a pre-requisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Employer shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder’s qualifications to perform satisfactorily.”**

The sub clause 11.1(c) is substituted with the following:

11.1(c) Furnish Technical Proposal:

The bidder has to submit a Technical Proposal in sufficient detail to demonstrate the adequacy of the bid in meeting requirements for timely completion of the Works as mentioned in Qualification criteria & requirement.

Sub-Clauses 11.4(a), 11.4(b) & 11.4(c) are added as follows:

11.4(a) “The Bidder shall have the nationality of Islamic Republic of Pakistan.

11.4(b) “The Bidder and all parties constituting the Joint Venture shall not have a conflict of interest. Bidders shall be considered to have a conflict of interest, if they participated as a consultant in the preparation of the design or technical specifications of the Works that are the subject of this Qualification. Where a firm, or a firm from the same economic or financial group, in addition to consulting, also has the capability to manufacture or supply goods or to construct works, that firm, or a firm from the same economic or financial group, cannot normally be a supplier of goods or works, if it provided consulting services for the contract corresponding to this Qualification, unless it can be demonstrated that there is not a significant degree of common ownership, influence or control.”

11.4(c) “Government-owned entities shall be eligible only if they can establish that they are legally and financially autonomous, and operate under commercial law, and that they are not dependent agencies of the Employer.”

13.1 This Clause is replaced with the following:

Bidders to quote entirely in Pak Rupees and all payments to Bidders shall be made in Pak Rupees only and no foreign currency payment is admissible.

13.2 The sub clause 13.2; being not applicable, is deleted.

14.1 Period of Bid Validity:

120 days

15.1 Amount of Bid Security:

The amount of Bid Security shall be not less than Rs.30,00,000/- to be attached in original with Technical Proposal, otherwise Financial Bid will not be entertained.

15.2 Substitute this Clause with the following:

“The Bid Security shall be, at the option of the bidder, in the form of Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan in favour of the Employer valid for a period 28 days beyond the Bid Validity date”.

The Bid Security of a joint venture shall be deemed to provide full commitment from all partners to the proposed joint venture.”

16 This Clause is replaced with the following:

Alternate Proposal is not allowed.

17.1 Venue, time, and date of the pre-Bid meeting:

Pre-Bid Meeting will be held on 07-04-2026 at 1100 hours at PPMC office No.112, 1st Floor Evacuee Trust Complex, F-5/1, Agha Khan Road, Islamabad.

18.4 & 18.5 Bids will be uploaded on EPADS only.

19.2(a)Employer's address for the purpose of Bid submission:

Team Lead (Admn) PPMC Office No.112, 1st Floor Evacuee Trust Complex, F-5/1, Agha Khan Road, Islamabad.

19.2(b)Name of the Contract:

RENOVATION OF 4TH FLOOR (PORTION UNDER PPMC), EVACUEE TRUST COMPLEX ISLAMABAD, INCLUDING CIVIL WORKS, PLUMBING AND ELECTRICAL WORKS, COMMUNICATION AND FIRE SEPARATION WORK.

Sub-Clause 19.5 is added as follows:

19.5 Bids shall be submitted under a single stage, two envelope procedure. This will include the process of evaluation of Bidders. Bidders are required to submit single package containing two separate folders/tabs, one containing the “Technical Proposal” (Bid Part-I) along with the Bid Security and the second containing “Financial Proposal” (Bid Part-2) in accordance with the Bidding Documents. The Technical Evaluation will be done first and Financial Proposals of only the responsive bidders meeting the evaluation criteria will be opened for further evaluation.

20.1(a)Deadline for submission of bids:

The deadline for submission of bid is 15th April 2026 at 11:00 AM on EPADS.

BD-4

23.1 Venue, time, and date of opening of the bids (Technical Proposal, Bid Part – I only) is:

Team Lead (Admn) PPMC Office No.112, 1st Floor Evacuee Trust Complex, F-5/1, Agha Khan Road, Islamabad at 1130 hours on 15th April, 2026

23.2 Evaluation reports will be uploaded on EPADS.

23.3 In last line the word “Bid” is deleted and the words “Technical Proposal or Financial Proposal as the case may be” are added. Add the following at the end of the text:

“Any discount which is not readout and recorded at bid opening will not be taken in to account in the evaluation of bids”.

24.1 The evaluation reports will be uploaded on EPADS.

32.1 Form and amount of Performance Security acceptable to the Employer:

- Irrevocable Bank Guarantee from any Scheduled Bank/CDR/Pay Order in Pakistan for an amount equal to 10% of the Contract Price stated in the Letter of Acceptance should be submitted within 28 days of after received of letter of acceptance.**

- Insurance Guarantee will not be accepted as performance security.

33. DOCUMENTS TO BE ATTACHED WITH TECHNICAL PROPOSAL.

1. CDR as per bid requirement.
2. For establishment of responsiveness, as per evaluation criteria mentioned necessary documents are required.
3. Nationality Certificate with CNIC.
4. Conflict of Interest form.
5. Govt. Owned entity certificate (where applicable).
6. History of non-performance certificate
7. Pending litigation certificate.
8. Firm or joint venture should have average annual turnover (AATO) of 100 million for last 03 Years i.e. 2022-23, 2023-24 and 2024-25 to be calculated from FBR Tax returns of firm or in case of joint venture collectively of all partners. (FBR returns of above years are to be attached).
9. PEC License of firm for last 05 Year.
10. Work Orders with Completion certificate as per specific experience requirement.
11. Personnel academic certificate & organization Chart.

ATTACHMENT TO BIDDING DATA

Qualification Criteria and Requirements

This Attachment contains all the methods, criteria, and requirements that the Employer shall use to evaluate Bidders. The information to be provided in relation to each requirement and the definitions of the corresponding terms are included in the respective Forms.

Contents

<u>1.</u>	<u>Eligibility</u>	A-1
<u>2.</u>	<u>Financial Situation</u>	A-10
<u>3.</u>	<u>Experience</u>	A-11
<u>4.</u>	<u>Personnel</u>	A-12

Qualification Criteria and Requirements

A minimum score of 70 marks is required across the Financial Situation, Experience, and Personnel criteria. Firms or joint ventures that do not achieve this score will be declared non-responsive, and their financial bids will not be opened.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Partner	One Partner	
1. Eligibility							
1.1	Nationality	Nationality in accordance with BD Sub-Clause 11.4(a)	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N/A	Forms ELI – 1.1 and 1.2, with attachments
1.2	Conflict of Interest	No conflicts of interest in accordance with BD Sub-Clause 11.4(b)	Must meet requirement	Existing or intended JV must meet requirement	Must meet requirement	N/A	Bidder's Submission Form
1.3	Government Owned Entity	Bidder required to meet conditions of BD Sub-Clause 11.4(c)	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI – 1.1 and 1.2, with attachments

Qualification Criteria and Requirements

A minimum score of 70 marks is required across the Financial Situation, Experience, and Personnel criteria. Firms or joint ventures that do not achieve this score will be declared non-responsive, and their financial bids will not be opened.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Partner	One Partner	
2. Historical Contract Non-Performance							
2.1	History of Non-Performing Contracts	Non-performance of a contract did not occur within the last 3 (three) years prior to the deadline for Bid submission based on all information on fully settled disputes or litigation. A fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.	Must meet requirement by itself or as partner to past or existing JV	N/A	Must meet requirement by itself or as partner to past or existing JV	N/A	Form CON-2

Qualification Criteria and Requirements

A minimum score of 70 marks is required across the Financial Situation, Experience, and Personnel criteria. Firms or joint ventures that do not achieve this score will be declared non-responsive, and their financial bids will not be opened.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Partner	One Partner	
2.2	Pending Litigation	All pending litigation shall in total not represent more than 50% (fifty percent) of the Bidder's net worth and shall be treated as resolved against the Bidder.	Must meet requirement by itself or as a partner to past or existing JV	N/A	Must meet requirement by itself or as a partner to past or existing JV	N/A	Form CON – 2
3. <u>Financial Situation (Total Marks = 30)</u>							
3.1	Average Annual Construction Turnover	Firm or joint venture should have Average annual turnover (AATO) of 100 million for last 03 Years i.e. 2022-23, 2023-24 and 2024-25 to be calculated from FBR Tax returns of firm or in case of joint venture collectively of	Must meet requirement	Must meet requirement	AATO will be calculated after adding both partners cumulatively	AATO will be calculated after adding both partners cumulatively	Form FIN – 3.2

Qualification Criteria and Requirements

A minimum score of 70 marks is required across the Financial Situation, Experience, and Personnel criteria. Firms or joint ventures that do not achieve this score will be declared non-responsive, and their financial bids will not be opened.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Partner	One Partner	
		all partners. (FBR returns of above years are to be attached). If does not fulfill annual average turn of 100 million then zero score will be awarded.					

Note: If any firm has Tax Exemption Certificate, the same be attached with Bid along with all detail.

4. Experience (Total Marks = 40)

A firm or a joint venture (in the case of a joint venture, at least one partner must meet the required experience) must have successfully completed at least two projects of a similar nature, with each project having a value of 50 million or more. Work orders and completion certificates for these projects must be submitted with the technical bid. Failure to meet the above experience requirement will result in a score of zero.

4.1	General Construction Experience	Experience under construction contracts in the role of contractor, for at least the last 5 (years) years prior to the Bid submission deadline	Must meet requirement	Must meet requirement	N/A	N/A	Form EXP – 4.1
4.2 (a)	Specific Construction Experience	Participation as Firm or joint venture (in case of joint venture one of the partners should fulfill required	Must meet requirement	Must meet requirement	N/A	Must meet requirement for one contract (can be a specialist subcontractor	Form EXP 4.2(a)

Qualification Criteria and Requirements

A minimum score of 70 marks is required across the Financial Situation, Experience, and Personnel criteria. Firms or joint ventures that do not achieve this score will be declared non-responsive, and their financial bids will not be opened.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Partner	One Partner	
		experience) should have completed at least 02 No. work experience of similar nature having amount of 50 million or above in each work completed successfully. The similarity shall be based on the physical size, complexity, methods/ technology or other characteristics as per Scope of this Contract.					

5. Personnel (Total Marks = 30)

The Bidder must demonstrate that it has personnel for the key positions that meet the following requirements:

Position	Qualification	Nos.	Marks	Total Work Experience (years)
Civil Engineer	Engg. Degree (Civil)	1	20	5
Sub Engineer (Civil)	Associate Diploma in Civil	1	10	7

Note:

1. The participating bidder must have one Civil Engineer and one Sub-Engineer (Civil). Copies of the PEC license for the Engineer and the Diploma certificate for the Sub-Engineer (Civil) must be attached. Failure to provide the above documents will result in a score of zero.
2. The Bidder shall provide details of the proposed personnel and their experience records using Forms PER-1 and PER-2 provided in Forms of Qualification Information Section.

**FORM OF BID AND
APPENDICES TO BID**

FORM OF BID FOR TECHNICAL PROPOSAL (BID PART-1)

NAME OF CONTRACT: RENOVATION OF 4TH FLOOR (PORTION UNDER PPMC),
EVACUEE TRUST COMPLEX ISLAMABAD, INCLUDING CIVIL
WORKS, PLUMBING AND ELECTRICAL WORKS,
COMMUNICATION AND FIRE SEPARATION WORK.

To: Power Planning and Monitoring Company,
Islamabad, Pakistan

1. We, the undersigned confirm without reservations that we have examined the Bid Documents including the Instruction to Bidders, Qualification Criteria, Conditions of Contract, Tender Drawings, Specifications, Bid Forms, Addenda Nos. _____ issued in accordance with instruction to Bidders for execution of the above-named Works.
2. We hereby offer to execute and complete such works and remedy any defects therein in conformity with this Technical Proposal and in accordance with the said Bid Documents and addenda for the sum set out in separate Financial Proposal (Bid Part-2) or such other sum as may be determined in according with conditions of Contract.
3. We undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in Appendix-A to Bid.
4. We agree to abide by this Bid for the period of 120 days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. 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.
6. This Technical Proposal forms part of our Bid and comprises the following documents duly completed as required;

.....
.....
.....

7. It is to be noted that the following documents are included in the Financial Proposal (Bid Part-2):

.....
.....
.....

8. We certify that the following Addenda have been received and are accepted as a part of the Bid Documents:

Addendum No.	Date

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

Address.....
.....

Dated thisday of

7. It is to be noted that the following documents are included in the Technical Proposal (Bid Part-1):

.....

8. We certify that the following Addenda have been received and are accepted as a part of the Bid Documents:

Addendum No.	Date

9. If this Bid is accepted, we will provide the specified performance Security, in accordance with Sub-Clause 10.1 of the Conditions of Contract, commence the work as soon as reasonably practicable after the commencement date, in accordance with Sub Clause 41.1 of the Conditions of Contract and complete the works in accordance with the above-named documents within the Time of Completion.

10. Unless and until a formal agreement is prepared and executed, this Form of Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

11. We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

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

Dated this day of

SPECIAL STIPULATIONS

Clause

Conditions of Contract

1.	Engineer's Authority to issue Variation	2.1	As per departmental and PPRA Rules.
2.	Amount of Performance Security	10.1	10% of Contract Price stated in the Letter of Acceptance.
3.	Time for Furnishing Programme	14.1	Within 14 days from the date of receipt of Letter of Acceptance.
4.	Minimum amount of Third-Party Insurance	25.5	N/A
5.	Time for Commencement	41.1	Within 14 days from the date of receipt of Engineer's Notice to Commence.
6.	Time for Completion	43.1 48.2	180 days from the date of receipt of Engineer's Notice to Commence (as per work requirement)
7.	Amount and Limit of Liquidated Damages	47.1	0.1 % of Contract Price stated in the Letter of Acceptance for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price stated in the Letter of Acceptance.
8.	Defects Liability Period	49.1	06 Months
9.	Percentage of Retention Money	60.2	10% of the amount of Interim Payment Certificate. 5% of total retention money will be released on successful taking over of project by employer & remaining 5% will be released on expiry of defect liability period.
10.	Limit of Retention Money	60.2	5% of Contract Price stated in the Letter of Acceptance.
11.	Minimum amount of Interim Payment Certificates (Running Bills)	60.2	As per site executed work and engineer incharge decision
12.	Time of Payment from delivery of Engineer's Interim Payment Certificate to the Employer.	60.10	60 days.
13.	Mobilization Advance (Interest Free)	60.11	Nil
14.	Price adjustment factor (only for works having duration more than six months)	70.1	Nil
15.	Bonus for early completion	47.3	Not applicable
16.	Miscellaneous clauses as mentioned in PCC	21.1 21.4 25.5 60.11	Not applicable

FOREIGN CURRENCY REQUIREMENTS

NOT USED

PRICE ADJUSTMENT UNDER CLAUSE 70
OF CONDITIONS OF CONTRACT

NOT USED

BILL OF QUANTITIES

A. PREAMBLE

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the contract.
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all costs of Contractor's plant/equipment, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore, all duties, taxes and other levies payable by the Contractor under the Contract or for any other cause, as on the date 28 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
6. General directions and descriptions of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 52.4, Daywork, and Clause 58, Provisional Sums, of the Conditions of Contract.
8. Any arithmetic errors in computations or summations will be corrected by the Employer as follows:
 - where there is a discrepancy between amounts in figures and in words, the amount in words will govern; and
 - where there is a discrepancy between the unit rate and the total amount derived from the multiplication of the unit rate and the quantity, the unit rate as quoted will govern unless, in the opinion of the Employer, there is an obvious misplacement of the decimal point in unit rate, in which event the total amount as quoted will govern and the unit rate will be corrected.

BILL OF QUANTITIES

SR NO.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
	<u>Dismantling</u>				
1	Dismantling and removal of existing floor as shown in drawings and removing debris from site and its safe disposal, at appropriate locations, all as approved by the Architect.	Sft	9130		
2	Removal of existing Dampa false ceiling complete as shown in drawings and removing debris from site and its safe disposal, at appropriate locations, all as approved by the Architect.	Sft	9130		
3	Removal existing doors as shown in drawings and removing debris from site and its safe disposal, at appropriate locations, all as approved by the Architect.	Job	1		
	<u>ALUMINIUM DOORS</u>				
4	Powder coated aluminum(Double glazed) door of premium model (of approved colour) with fixed/sliding / openabl shutters using 2mm thick minimum aluminum sections with minimum 100mm wide frame, including 6x2 mm thick imported tempered glass, matching hardware, door handles , locking arrangement,(including floor mounted door closer) fixing with stainless steel screws, sealing the joints between aluminum sections and adjoining surfaces with transparent silicon sealent both inside and outside, including frosting paper as required etc. complete in all respects or as approved by the Architect.	Sft	875		
	12mm thick tempered glass wall				
5	Supply and fixing 12 mm thick Imported frosted tempered glass ,including all hardware fittings, handles, locks arrangements, Screws & Rubber Lining etc, Complete in all respects, as shown on drawings or as approved by the Architect.(Multipurpose hall)	Sft	505		
	<u>FLOORINGS:</u>				
6	Providing and laying porcelain tiles on floors (size 2'X4') including 2" metal strip of approved quality and color, as directed by the Architect, set in neat cement and joints grouted with white/colored cement using imported pigments over and including 1-¼"thick minimum 1:3 cement sand mortar base,cutting/grinding of edges, etc. complete in all respects.	Sft	3568		
7	Providing and laying 4" high porcelain tiles skirting on walls of approved quality and color, as directed by the Architect, set in neat cement and joints grouted with white/colored cement using imported pigments including cutting/grinding of edges, etc. complete in all respects.	Rft	235		

8	Providing and laying porcelain matt tiles on toilet floors of approved quality, size and color, as directed by the Architect, set in neat cement and joints grouted with white/colored cement using imported pigments over and including 1-1/4"thick minimum 1:3 cement sand mortar base, cutting/grinding of edges, etc. complete.	Sft	480		
9	Providing and laying porcelain glazed tiles on toilet walls of approved quality, size and color, as directed by the Architect, set over neat cement and joints grouted with white/colored cement using imported pigments including cutting/grinding of edges, etc. complete in all respects.	Sft	2360		
10	Providing and laying 8"x8" flower tiles on kitchen wall of approved quality and color, as directed by the Architect, set over neat cement and joints grouted with white/colored cement using imported pigments including cutting/grinding of edges, etc. complete in all respects.	Sft	115		
11	Providing and laying carpet on floors of including colored patti and filling under carpet of approved quality,size and color, as shown on drawing or as directed by the Architect, complete in all respects.	Sft	5352		
	<u>PAINT WORK</u>				
12	Supply & applying 3 coats of jotun Paint of approved quality & color including surface preparation by provision of a film with alkali resisting primer on internal plastered walls complete in all respects and as directed by the Architect.	sft	8585		
	<u>FALSE CEILING</u>				
13	Providing and fixing Gypsum board false ceiling of with seamless joints fixed in position with heavy type adjustment hangers & screws, including provision of imported jointing tape on joints, openings for light & other electrical fixtures, fillings Complete in all respects.	Sft	8920		
	<u>KITCHEN MARBLE SILL AND CABINET</u>				
14	Providing and laying 1" thick full length prepolished marble slab for kitchen shelf of approved quality laid over bed of C.C 1:4 using cement sand mortar including, filling of joints using white cement and pigment (if required) including making chamfering edges complete in all respect as shown on the drawings.	Sft	55		
15	Providing and fixing kitchen cabinet box of partex Lasani with UPVC edge(white),front shutter partex Lasani wood texture with UPVC edge including hardware of approved quality and design, pull handles, brass hinges, catchers etc,complete in all respect as shown on the drawings, specifications and as directed by the Engineer.				
	a) Kitchen cabinet (Face measurement only)	Sft	140		
	<u>WALL PANELS</u>				

16	Providing and Fixing mdf wall paneling including all hardware, complete in all respects, as per drawing and as approved by the Architect.	Sft	1350		
	<u>CABINETARY & RACKS</u>				
17	Providing and Fixing up to full height Cabinet of 3/4" thick MDF sheet with laminated lasani shutter (in Library) including all hardware, complete in all respects, as per drawing and as approved by the Architect.	Sft	2730		
18	Providing and Fixing floating Cabinet of 3/4" thick MDF sheet with laminated lasani shutter including all hardware, complete in all respects, as per drawing and as approved by the Architect.	Sft	115		
	<u>MISCELLANEOUS</u>				
19	Providing and doing Other ornamental works as per design and drawings or as approved by the Architect. Complete in all respects.	Job	1		
20	Providing and placing room planter including S.S (18 Gauge Sheet), Oval shape planter size 2' Dia and 1'-6" height , As per design complete in all respects.	No	30		
21	Providing and placing room planter including S.S (18 Gauge Sheet), rectangular shape planter size 8' length and 1'-6" height with powder coating finish, As per design complete in all respects.	No	20		
22	Providing and fixing Acrylic cut feature Letters/Signage over wall of approved material as shown in drawings and as approved by the Architect. Complete in all respects.	No	20		
	<u>FEATURE & MEDIA WALLS</u>				
23	Providing and fixing media walls including chip board with rope light as shown in drawings or as approved by the Architect.	Job	7		
24	Providing and fixing feature walls including laminated wooden paneling,ms jali with ms frame and rope light as shown in drawings or as approved by the Architect.	Job	2		
	<u>FURNISHINGS</u>				
25	Providing and fixing of Reception desk of laminated lasani, glass on top, drawers,table cabnet,reception cabnet including all hardware, complete in all respects, as shown in drawings or as approved by the Architects.	No	1		
26	Supplying chairs for reception, as per drawing and as approved by the Architect.	No	2		
27	Supplying furniture (2 seater sofa) for waiting area, as per drawing and as approved by the Architect.	No	3		
28	Supplying table for waiting , as per drawing and as approved by the Architect.(1 Large).	No	1		
29	Supplying furniture (3 seater sofa) for ladies lounge, as per drawing and as approved by the Architect.	No	1		

30	Supplying furniture (2 seater sofa) for ladies lounge, as per drawing and as approved by the Architect.	No	2		
31	Supplying table for ladies lounge , as per drawing and as approved by the Architect.(1 Large).	No	1		
32	Supplying executive chairs (for conference room) , as per drawing and as approved by the Architect.	No	20		
33	Providing and fixing work stations with 3/4" thick laminated lasani (Hdf) with wooden texture over 1-1/2"x1" black powder coated metal section including drawer table and side table. Complete in all respects, as shown in drawings or approved by the Architect.	Nos	45		
34	Supplying chairs for work stations , as per drawing and as approved by the Architect.	Nos	45		
35	Supplying furniture (2 seater sofa) for Library area, as per drawing and as approved by the Architect.	No	3		
36	Supplying table for Library , as per drawing and as approved by the Architect.(1 Large).	No	1		
37	Supplying dinning table for 6 person with 6 chairs , as per drawing and as approved by the Architect.	Set	1		
38	Supplying chairs(plastic body with metal frame) for dinning room, as per drawing and as approved by the Architect.	No	6		
39	Supplying furniture (3 seater sofa) for multipurpose hall, as per drawing and as approved by the Architect.	No	3		
40	Supplying table for multipurpose hall , as per drawing and as approved by the Architect.(1 Large).	No	1		
41	Supplying chairs for multipurpose hall, as per drawing and as approved by the Architect.	No	2		
42	Supplying table tennise complete set for multipurpose hall, as per drawing and as approved by the Architect.	No	1		
43	Supplying best quality foosball table complete set for multipurpose hall, as per drawing and as approved by the Architect.	No	2		
44	Supplying best quality treadmill for multipurpose hall, as per drawing and as approved by the Architect.	No	4		
45	Supplying dumbbells and dumbbells rack complete set for multipurpose hall, as per drawing and as approved by the Architect.	Job	1		
46	Supplying and fixing wall mounted sitting arrangement for multipurpose hall, as per drawing and as approved by the Architect.	No	1		
47	Supplying executive office table, as per drawing and as approved by the Architect.	No	3		
48	Supplying executive chairs , as per drawing and as approved by the Architect.	No	3		

49	Supplying of Meeting table (for 12 person), complete in all respects, as per drawing and as approved by the Architect.	No	1		
50	Supplying chairs (for Meeting table) , as per drawing and as approved by the Architect.	No	12		
	(A) SUB TOTAL (Rs).				
	<u>PLUMBING FIXTURES</u>				
51	Supply and installation of Water Closets				
	make & model as per approved manufacturer list & as per general specification or interior works				
	specifications respectively, complete with all fittings & accessories i.e. Flush tank (Concealed), Flushometer				
	Valve, flexible pipe, Commode Bend, Bib Cock etc.				
	including all allied necessary facilities, complete in all respects ,(Porta,Durr ceramics,Master) or as approved by an Architect.				
a	Western water closet	No	9		
52	Supply and installation of appropriate sized vanity and Sinks including cold & hot water mixers				
	make & model as per approved manufacturer list & as per general specification or interior works				
	specifications respectively, complete with all fittings accessories i.e. mixers, bowl, stop cocks etc.(Porta,Durr ceramics,Master) and as shown in drawings or as				
a	Vanity with Counter top approved by an Architect.	No	3		
b	Kitchen Sink Bowl Uper Counter 15"x24" (Steen less steel 16 SWG)	No	1		
53	Providing and fixing of following Toilet accessories as per approved manufacturer list or general specification, complete with all fittings accessories and as approved by an Architect.				
a	Mirrors (Belgium made)	Sft	115		
b	Muslim Shower	No	9		
c	Floor trap	No	12		
d	Toilet paper holder	No	9		
e	Hand dryer	No	2		
f	Water tap	No	9		
g	Liquid soap dispenser wall mounted	No	5		
	<u>2 BURNERS GAS HOB AND KITCHEN HOOD</u>				

54	Providing and fixing built in gas hob heavy efficient 2 burner (Fotile,nasgas,Haier) as shown in drawings or as approved.	No	1		
	<u>FIRE FIGHTING SYSTEM</u>				
55	Instalation of fire fighting system complete in all respects as approved by the Architects.	Job	1		
	(B) SUB TOTAL (Rs).				
	<u>ELECTRICAL WORKS & FIXTURES:</u>				
56	Supply at site, Installation, (Electric work and net working) testing and commissioning of Networking,wifi,floor box ,light plug, power plug , internal wiring, earthing terminal, plate type moulded Gang switches and making good existing electric points including condute and wiring complete in all respects, fittings shall be approved by Architects/Site Engineer Incharge,as shown in drawings.Complete in all respects.	Job	1		
57	Supply, installation, testing and commissioning of Hanging Light in 40 Watts including hanging accessoriesl, complete in all respects.	No.	20		
58	Supply, installation, testing and commissioning of 10W LED/SMD/COB spot light with hanging accessories, complete in all respects.	No.	60		
59	Supply, installation, testing and commissioning of strip light/rope light having 6 watts/ feet including connectors and hanging accessories as shown in drawing, complete in all respects.	Rft	300		
60	Providing and fixing of pendant lights, complete in all respects,fitting shall be approved by Architects/Site Engineer In charge, as shown in drawings.	No	10		
61	Providing and fixing of ceiling mounted exhaust fan of approved brand, complete in all respects, fitting shall be approved by Architects, as shown in drawings.	No	9		
62	Providing and fixing of ceiling louvers fan 2'x2', complete in all respects, fitting shall be approved by the Architects/Site Engineer In charge, as shown in drawings.	No	36		
	<u>Display Screens (Wall Mounted)</u>				
63	70-inch LCD type-colored monitors with mounting arrangement, including cost of all necessary accessories, complete in all respects.	Nos	3		

64	55-inch LCD type-colored monitors with mounting arrangement, including cost of all necessary accessories, complete in all respects.	Nos	8		
	INVERTER TYPE WALL MOUNTED TYPE A/CS				
65	Supply & Installation of Inverter Cooling/Heating Type Split Air Conditioning Units (Make Gree, Daiken or as approved) with Wall Mounted Decorative Type Indoor Units, As Specified & Scheduled including unloading, Lifting and Fixing at location as shown on drawings including insulated copper pipe fixed between indoor unit to out door unit and insulated pvc drain for A/C,complete in all respects or as directed by the Architect.				
	AC-1 (Nominal Cap: 2 Ton) wall mounted.	Nos	9		
	AC-1 (Nominal Cap: 4 Ton) ceiling mounted.	Nos	10		
	<u>HOT PLATE</u>				
66	Providing and fixing hot plate of approved quality as shown in drawings.	No	1		
	<u>Camera Connecting Cable</u>				
67	Supply at site, installation, testing & commissioning of U/UTP 4 pair Cat 6, Network Cable pure copper conductor PVC insulated PVC sheathed including cost of Single Shutter Face plate with UTP Cat-6 Keystone Jack with Back Box to be installed on Walls, from Voice / Data Cabinet to Telephone Points on walls, complete in all respects.				
a)	4 pair CAT6 cable	Rft	1500		
	Network Video Recorder (NVR - 32 - Channel)				
68	8 BAY 32CH NETWORK VIDEO RECORDER - Max 64 channel IP connection - Max 38 Mbps incoming bandwidth - Up to 12Mp resolution preview & playback - 1 VGA + 2 HDMI - Support 8 host-swap HDDS - Support RAID 0/1/5/6/10/50/60 - Support N+M hot standby - Support ISCSI to expand storage space - Support Multi-brand network cameras - ONVIF version 2.4 - Redundant power supply module adopted - Support face detection	Nos	20		
	<u>Display Screens (Wall Mounted)</u>				
69	55 inch LCD type colored monitors with mounting arrangement, including cost of all necessary accessories,complete in all respects.	Nos	1		

	(C) SUB TOTAL (Rs).				
	GRAND TOTAL A+B+C (Rs).				

SUMMARY OF COST
(To be filled in and signed by the Bidder)

Bill No.	BILL DESCRIPTION	AMOUNT (Rs.)
1	Dismantling	
2	Aluminium Doors	
3	12mm thick tempered glass wall	
4	Floorings	
5	Paint Work	
6	False Ceiling	
7	Kitchen Marble Sill and cabinet	
8	Wall Panels	
9	Cabinetry & Racks	
10	Miscellaneous	
11	Feature & Media Walls	
12	Furnishings	
13	Plumbing Fixtures	
14	Electrical Works & Fixtures	
15	Total Bid Price including Income Tax	
16	Add GST applicable in Federal Capital	
17	Final Amount of 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) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and parts of the Works may meet Employer's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence. (Attach sheets as required for the specified form of Construction Schedule):

<u>Description</u>	<u>Time for Completion</u>
Whole Work	180 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.
1. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.]

LIST OF MAJOR EQUIPMENT – RELATED ITEMS

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

LIST OF MAJOR EQUIPMENT

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

CONSTRUCTION CAMPS AND HOUSING FACILITIES

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

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

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

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
 - a) Power (expected power load, etc.).
 - b) Water (required amount and system proposed).
 - c) Sanitation (sewage disposal system, etc.).
3. Construction of Facilities
 - a) Contractor's Office. Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).
 - b) Warehouses and Storage Areas (area required, type of construction and layout).
 - c) Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.).
4. Construction Equipment Assembly and Preparation (detailed plans for carrying out this activity).
5. Other Items Proposed (Security services, etc.).

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

ESTIMATED PROGRESS PAYMENTS

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

Quarter	Amounts (1,000 Rs.)
(1)	(2)
1 st	
2 nd	
3 rd	
4 th	
Bid Price	

Note: This Appendix shall be completed and provided with the Financial Proposal.

ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF AND LABOUR

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN
CONTRACTS WORTH RS. 10.00 MILLION OR MORE**

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

..... [name of Supplier] 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 Pakistan (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoP through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Supplier] 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 GoP, except that which has been expressly declared pursuant hereto.

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

[name of Supplier] 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 GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] 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 GoP.

Name of Buyer:

Name of Seller/Supplier:

Signature:

Signature:

[Seal]

[Seal]

FORMS

**BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT
MOBILIZATION ADVANCE GUARANTEE/BOND**

BID SECURITY
(Bank Guarantee)

Security Executed on _____
(Date)

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

Name of Principal (Bidder) with Address _____

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

Bid Reference No. _____

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

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

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

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

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

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

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

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

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

SURETY (Bank)

WITNESS:

Signature _____

1. _____

Name _____

Title _____

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2. _____

Name, Title & Address

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

Guarantee No. _____

Executed on _____

Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with address: _____

(Scheduled Bank in Pakistan)

Name of Principal (Contractor) with address: _____

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

Letter of Acceptance No. _____ Dated _____

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

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

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

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

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

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

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

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

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ (month) 20____ between _____ (hereafter called the "Employer") of the one part and _____ (hereafter called the "Contractor") of the other part.

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

NOW this Agreement 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 Particular Conditions of Contract – Part II;
 - (f) The General Conditions – Part I;
 - (g) The priced Bill of Quantities (Appendix-D to Bid);
 - (h) The completed Appendices to Bid (B, C, E to L);
 - (i) The Drawings;
 - (j) The Specifications.
 - (k) _____ (any other)
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

Signature of Employer

(Seal)

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

(Name, Title and Address)

(Name, Title and Address)

FORMS OF QUALIFICATION INFORMATION

- Bidder's Submission Form
- Form ELI - 1.1 Bidder Information Form
- Form ELI - 1.2 Bidder Party Information Form
- Form CON - 2 Historical Contract Non-Performance
- Form FIN - 3.1 Financial Situation
- Form FIN - 3.2 Average Annual Construction Turnover
- Form FIN - 4.1 General Construction Experience
- Form FIN - 4.2(a) Similar Construction Experience
- Form FIN - 4.2(b) Construction Experience in Key Activities
- Form PER - 1 Proposed Personnel
- Form PER - 2 Resume of Proposed Personnel
- Form EQU Equipment

Bidder's Submission Form

Date: *[insert day, month, year]*

Contract Package No. & Title: *[Insert Contract Package No. & Title]*

To: Team Lead (Admn) PPMC, Islamabad.

We, the undersigned, Bid for the referenced Contract and declare that:

- (a) we, including any subcontractors or suppliers for any part of the contract have nationalities in accordance with BD Sub-Clause 11.4(a): *[insert the nationality of the Bidder, including that of all partners in case of a Joint Venture, and the nationality of each already identified subcontractor and supplier of related services, if applicable];*
- (b) we, including any subcontractors or suppliers for any part of the contract do not have any conflict of interest, in accordance with BD Sub-Clause 11.4(b);
- (c) *[insert either "we are not a Government owned entity" or "we are a Government entity, and we meet the requirements of BD Sub-Clause 11.4(c)];*

Signed *[insert signature(s) of an authorized representative(s) of the Bidder]*

Name *[insert full name of person signing the Bid]*

In the Capacity of *[insert capacity of person signing the Bid]*

Duly authorized to sign the Bid for and on behalf of: Bidder's

Name *[insert full name of bidder]*

Address *[insert street number/town or city/country address]*

Dated on *[insert day number]* day of *[insert month]*, *[insert year]*

Initial of Signatory of Bidder: _____

Form ELI -1.1
Bidder Information Form

Date: *[insert day, month, year]*

Contract Package No. & Title: *[Insert Contract Package No. & Title]*

Bidder's legal name

[insert full legal name]

In case of Joint Venture (JV), legal name of each partner:

[insert full legal name of each partner in JV]

Bidder's Actual or Intended country of constitution:

[indicate country of Constitution]

Bidder's actual or Intended year of constitution:

[indicate year of Constitution]

Bidder's legal address in country of constitution:

[insert street/ number/ town or city/ country]

Bidder's authorized representative information

Name: *[insert full legal name]*

Address: *[insert street/ number/ town or city/ country]*

Telephone/Fax numbers: *[insert telephone/fax numbers, including country and city codes]*

E-mail address: *[indicate e-mail address]*

Attached are copies of original documents of

- Articles of Incorporation or Documents of Constitution, and documents of registration of the legal entity named above, in accordance with BD 11.4(a).
- In case of JV, letter of intent to form JV or JV agreement.
- In case of Government owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with BD 11.4(c).
- Pakistan Engineering Council (PEC) Registration / License

Initial of Signatory of Bidder: _____

Form CON – 2
Historical Contract Non-Performance

[The following table shall be filled in for the Bidder and for each partner of a Joint Venture]

Bidder's Legal Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Party Legal Name: *[insert full name]*
Contract Package No. & Title: *[insert Contract Package No. & title]*

Non-Performing Contracts in accordance with Qualification Criteria and Requirements			
<p>(Contract non-performance did not occur during the [3] years specified in the Qualification Criteria and Requirements, Sub-Factor 2.1.)</p> <p>(Contract(s) not performed during the [3] years specified in the Qualification Criteria and Requirements, Sub-Factor 2.1.)</p>			
Year	Non performed portion of contract	Contract Identification	Total Contract Amount (current value, Pak Rs.)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for non performance: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
Pending Litigation, in accordance with Qualification Criteria and Requirements			
<input type="checkbox"/> No pending litigation in accordance with Qualification Criteria and Requirements, Sub-Factor 2.2. <input type="checkbox"/> Pending litigation in accordance with Qualification Criteria and Requirements, Sub-Factor 2.2 as indicated below.			

Year	Outcome as Percentage of Total Assets	Contract Identification	Total Contract Amount (current value, Pak Rs.)
<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i>	<i>[insert amount]</i>

Initial of Signatory of Bidder: _____

Form FIN – 3.1 Financial Situation

[The following table shall be filled in for the Bidder and for each partner of a Joint Venture]

Bidder's Legal Name: *[insert full name]*

Date: *[insert day, month, year]*

Bidder's Party Legal Name: *[insert full name]*

Contract Package No. & Title: *[insert Contract Package No. & title]*

1. Financial data

Financial information in (Pak Rs. in Million)	Historic information for previous 3 (three) years, (Pak Rs. in Million)		
	Year 1 2022-23	Year 2 2023-24	Year 3 2024-25
Information from Balance Sheet			
Total Assets (TA)			
Total Liabilities (TL)			
Net Worth (NW)			
Current Assets (CA)			
Current Liabilities (CL)			
Information from Income Statement			
Total Revenue (TR)			
Profits Before Taxes (PBT)			

2. Financial documents

The Bidder and its parties shall provide copies of the balance sheets and/or financial statements for the last three (3) years pursuant to Qualifications Criteria and Requirements, Sub-factor 3.1. The financial statements shall:

- (a) reflect the financial situation of the Bidder or partner to a JV, and not sister or parent companies.
- (b) be audited by a certified accountant.
- (c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

- Attached are copies of financial statements (balance sheets, including all related notes, and income statements) for the last *three (3)* years required above; and complying with the requirements.

3. Credit Line

Acceptable maximum limit of Credit Line Facility may be considered upto 80 % of the required Cash Flow for this Contract.

Specify proposed sources of Credit Line to meet the cash-flow demands of the Project.

Sr. No.	Sources of Credit Line		Amount.
1.	Name of Bank		
	Telephone No.		
	Fax No.		
	Contact Name and Title		
2.	Name of Bank		
	Telephone No.		
	Fax No.		
	Contact Name and Title		

- (1) Attach Documentary Evidence / Bank Certificates issued by each Source of Credit Line to demonstrate availability of credit.
- (2) The Bank Certificate should be properly dated, stamped and signed by the Bank Authorities.

Initial of Signatory of Bidder: _____

Form FIN - 3.2
Average Annual Construction Turnover

[The following table shall be filled in for the Bidder and for each partner of a Joint Venture]

Bidder's/Joint Venture Partner's Legal Name: *[insert full name]*

Date: *[insert day, month, year]*

Bidder's Party Legal Name: *[insert full name]*

Contract Package No. & Title: *[insert Contract Package No. & title]*

Annual turnover data (construction only)	
Year	Amount and Currency
2022-23	
2023-24	
2024-25	
Average Annual Construction Turnover *	

* Average annual construction turnover calculated as total certified payments received for work in progress or completed, divided by the number of years specified in the Qualification Criteria and Requirements, Sub-Factor 3.2.

Initial of Signatory of Bidder: _____

Form EXP - 4.1
General Construction Experience

[The following table shall be filled in for the Bidder and for each partner of a Joint Venture]

Bidder's/Joint Venture Partner's Legal Name: *[insert full name]*
Date: *[insert day, month, year]*
Bidder's Party Legal Name: *[insert full name]*
Contract Package No. & Title: *[insert Contract Package No.& title]*

[Identify contracts that demonstrate continuous construction work over the past [05] years pursuant to Qualification Criteria and Requirements, Sub-Factor 4.1. List contracts chronologically, according to their commencement (starting) dates.]

Starting Month / Year	Ending Month / Year	Contract Identification	Role of Applicant
<i>[indicate month/ year]</i>	<i>[indicate month/ year]</i>	Contract name: <i>[insert full name]</i> Brief Description of the Works performed by the Bidder: <i>[describe works performed briefly]</i> Amount of contract: <i>[insert amount in Pak Rs]</i> Name of Employer: <i>[indicate full name]</i> Address: <i>[indicate street/number/town or city/country]</i>	<i>(insert "Contractor" or "Subcontractor" or "Contract Manager")</i>
		Contract name: <i>[insert full name]</i> Brief Description of the Works performed by the Bidder: <i>[describe works performed briefly]</i> Amount of contract: <i>[insert amount in Pak Rs]</i> Name of Employer: <i>[indicate full name]</i> Address: <i>[indicate street/number/town or city/country]</i>	<i>(insert "Contractor" or "Subcontractor" or "Contract Manager")</i>
		Contract name: <i>[insert full name]</i> Brief Description of the Works performed by the Bidder: <i>[describe works performed briefly]</i> Amount of contract: <i>[insert amount in Pak Rs]</i> Name of Employer: <i>[indicate full name]</i> Address: <i>[indicate street/number/town or city/country]</i>	<i>(insert "Contractor" or "Subcontractor" or "Contract Manager")</i>

Initial of Signatory of Bidder: _____

Form EXP - 4.2(a)
Similar Construction Experience

[The following table shall be filled in for contracts performed by the Bidder, each partner of a Joint Venture, and specialist sub-contractors]

Bidder's/Joint Venture Partner's Legal Name: *[insert full name]*
 Date: *[insert day, month, year]*
 JV Party Name: *[insert full name]*
 Contract Package No. & Title: *[insert Contract Package No. & title]*

Similar Contract No. <i>[insert number] of [insert number of similar contracts required]</i>	Information		
Contract Identification	<i>[insert contract name and number, if applicable]</i>		
Award date	<i>[insert day, month, year]</i>		
Completion date	<i>[insert day, month, year]</i>		
Role in Contract <i>[check the appropriate box]</i>	Contractor <input type="checkbox"/>	Management Contractor <input type="checkbox"/>	Subcontractor <input type="checkbox"/>
Total Contract Amount	<i>[insert total contract amount in local currency]</i>		
If partner in a JV, or subcontractor, specify participation in total contract amount	<i>insert a percentage amount]</i>	<i>insert total contract amount in local currency]</i>	
Employer's Name:	<i>[insert full name]</i>		
Address:	<i>[indicate street / number / town or city / country]</i>		
Telephone/fax number	<i>[insert telephone/fax numbers, including country and city area codes]</i>		
E-mail:	<i>[insert e-mail address, if available]</i>		

Initial of Signatory of Bidder: _____

Form EXP - 4.2(a) (cont.)
Similar Construction Experience (cont.)

Similar Contract No. <i>[insert number] of [insert number of similar contracts required]</i>	Information
Description of the similarity in accordance with Sub-Factor 4.2(a) of Criteria:	
1. Amount	<i>[insert amount in words and in Figures]</i>
2. Physical size	<i>[insert physical size of activities]</i>
3. Complexity	<i>[insert description of complexity]</i>
4. Methods/Technology	<i>[insert specific aspects of the methods/technology involved in the contract]</i>
5. Other Characteristics	<i>[insert other characteristics as described in Scope of this Contract]</i>

Initial of Signatory of Bidder: _____

Form PER – 1
Proposed Personnel

Bidder's/Joint Venture Partner's Legal Name: *[insert full name]*

Date: *[insert day, month, year]*

JV Party Name: *[insert full name]*

Contract Package No. & Title: *[insert Contract Package No. & title]*

Bidders should provide the names of suitably qualified personnel to meet the specified requirements stated in Qualification Criteria. The data on their experience should be supplied using the Form below for each candidate.

1.	Title of position*
	Name
2.	Title of position*
	Name
3.	Title of position*
	Name
4.	Title of position*
	Name

*As listed in Qualification Criteria.

Initial of Signatory of Bidder: _____

Form PER – 2
Resume of Proposed Personnel

Bidder's/Joint Venture Partner's Legal Name: *[insert full name]*
 Date: *[insert day, month, year]*
 JV Party Name: *[insert full name]*
 Contract Package No. & Title: *[insert Contract Package No.& title]*

Position							
Personnel information	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">Name</td> <td style="width: 50%; padding: 5px;">Date of birth</td> </tr> <tr> <td colspan="2" style="padding: 5px;">Professional qualifications</td> </tr> </table>	Name	Date of birth	Professional qualifications			
	Name	Date of birth					
Professional qualifications							
Present employment	Name of employer						
	Address of employer						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">Telephone</td> <td style="width: 50%; padding: 5px;">Contact (manager / personnel officer)</td> </tr> <tr> <td style="padding: 5px;">Fax</td> <td style="padding: 5px;">E-mail</td> </tr> <tr> <td style="padding: 5px;">Job title</td> <td style="padding: 5px;">Years with present employer</td> </tr> </table>	Telephone	Contact (manager / personnel officer)	Fax	E-mail	Job title	Years with present employer
	Telephone	Contact (manager / personnel officer)					
	Fax	E-mail					
Job title	Years with present employer						

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company / Project / Position / Relevant technical and management experience

Initial of Signatory of Bidder: _____

Form – EQU Equipment

Bidder's/Joint Venture Partner's Legal Name: *[insert full name]*

Date: *[insert day, month, year]*

JV Party Name: *[insert full name]*

Title: *[insert title]*

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in the Qualification Criteria. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of Equipment *		
Equipment Information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current Status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	

* As listed in the Qualification criteria.

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

Initial of Signatory of Bidder: _____

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PART II - PARTICULAR CONDITIONS OF CONTRACT
(Mandatory Provisions not to be Amended / Substituted except as instructed by PEC)

1.1 Definitions

(a) (i) The Employer is
.....(insert name along with his full address).

(a) (iv) The Engineer is
.....(insert name of the Firm/Company/Person nominated as Engineer alongwith his full address), or any other competent person appointed by the Employer, and notified to the Contractor, to act in replacement of the Engineer. Provided always that except in cases of professional misconduct, the outgoing Engineers is to formulate his certifications/recommendations in relation to all outstanding matters, disputes and claims relating to the execution of the Works during his tenure.

The following paragraph is added:

(a)(vi) “Bidder or Tenderer” means any person or persons, company, corporation, firm or joint venture submitting a Bid or Tender.

(b)(v) The following is added at the end of the paragraph:

The word “Tender” is synonymous with “Bid” and the word “Tender Documents” with “Bidding Documents”.

The following paragraph is added:

(b)(ix) “Programme” means the programme to be submitted by the Contractor in accordance with Sub-Clause 14.1 and any approved revisions thereto.

(e)(i) The text is deleted and substituted with the following:

“Contract Price” means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works subject to such additions thereto or deductions therefrom as may be made and remedying of any defects therein in accordance with the provisions of the Contract.

2.1 Engineer's Duties and Authority

With reference to Sub-Clause 2.1(b), the following provisions shall also apply;

The Engineer shall obtain the specific approval of the Employer before carrying out his duties in accordance with the following Clauses:

- (i) Consenting to the sub-letting of any part of the Works under Sub-Clause 4.1 “Subcontracting”.

- (ii) Certifying additional cost determined under Sub-Clause 12.2 “Not Foreseeable Physical Obstructions or Conditions”.
- (iii) Any action under Clause 10 “Performance Security” and Clauses 21,23,24 & 25 “Insurance” of sorts.
- (iv) Any action under Clause 40 “Suspension”.
- (v) Any action under Clause 44 “Extension of Time for Completion”.
- (vi) Any action under Clause 47 “Liquidated Damages for Delay” or Payment of Bonus for Early Completion of Works (PCC Sub-Clause 47.3).
- (vii) Issuance of “Taking Over Certificate” under Clause 48.
- (viii) Issuing a Variation Order under Clause 51, except:
 - a) in an emergency* situation, as stated herebelow, or
 - b) if such variation would increase the Contract Price by less than the amount stated in the Appendix-A to Bid.
- (ix) Fixing rates or prices under Clause 52.
- (x) Extra payment as a result of Contractor’s claims under Clause 53.
- (xi) Release of Retention Money to the Contractor under Sub-Clause 60.3 “Payment of Retention Money”.
- (xii) Issuance of “Final Payment Certificate” under Sub-Clause 60.8.
- (xiii) Issuance of “Defect Liability Certificate” under Sub-Clause 62.1.
- (xiv) Any change in the ratios of Contract currency proportions and payments thereof under Clause 72 “Currency and Rate of Exchange”.

(Note: Employer may further vary according to need of the project)

* (If in the opinion of the Engineer an emergency occurs affecting the safety of life or of the Works or of adjoining property, the Engineer may, without relieving the Contractor of any of his duties and responsibilities under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 52 and shall notify the Contractor accordingly, with a copy to the Employer.)

2.2 Engineer's Representative

The following paragraph is added:

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

The following Sub-Clauses 2.7 and 2.8 are added:

2.7 Engineer Not Liable

Approval, reviews and inspection by the Engineer of any part of the Works does not relieve the Contractor from his sole responsibility and liability for the supply of materials, plant and equipment for construction of the Works and their parts in accordance with the Contract and neither the Engineer's authority to act nor any decision made by him in good faith as provided for under the Contract whether to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Engineer to the Contractor, any Subcontractor, any of their representatives or employees or any other person performing any portion of the Works.

2.8 Replacement of the Engineer

"If the Employer intends to replace the Engineer, the Employer shall, not less than 14 days before the intended date of replacement, give notice to the Contractor, of the name, address and relevant experience of the intended replacement Engineer. The Employer shall not replace the Engineer with a person against whom the Contractor raises reasonable objection by notice to the Employer, with supporting particulars."

5.1 Language(s) and Law

- (a) The Contract Documents, shall be drawn up in the English language.
- (b) The Contract shall be subject to the Laws of Islamic Republic of Pakistan.

5.2 Priority of Contract Documents

The documents listed at (1) to (6) of the Sub-Clause are deleted and substituted with the following:

- (1) The Contract Agreement (if completed);
- (2) The Letter of Acceptance;
- (3) The completed Form of Bid;
- (4) Special Stipulations (Appendix-A to Bid);
- (5) The Particular Conditions of Contract – Part II;
- (6) The General Conditions – Part I;
- (7) The priced Bill of Quantities (Appendix-D to Bid);
- (8) The completed Appendices to Bid (B, C, E to L);
- (9) The Drawings;

- (10) The Specifications; and
(11)_____ (any other).

In case of discrepancies between drawings, those of larger scale shall govern unless they are superseded by a drawing of later date regardless of scale. All Drawings and Specifications shall be interpreted in conformity with the Contract and these Conditions. Addendum, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

The following Sub-Clauses 6.6 and 6.7 are added:

6.6 Shop Drawings

The Contractor shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this Contract as per provision of relevant Sub-Clause of the Contract.

Review and approval by the Engineer shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and that the Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

6.7 As-Built Drawings

At the completion of the Works under the Contract, the Contractor shall furnish to the Engineer 6 copies and one reproducible of all drawings amended to conform with the Works as built. The price of such Drawings shall be deemed to be included in the Contract Price.

10.1 Performance Security

The text is deleted and substituted with the following:

The Contractor shall provide Performance Security to the Employer in the prescribed form. The said Security shall be furnished or caused to be furnished by the Contractor within 28 days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 10% of the Contract Price stated in the Letter of Acceptance. Such Security shall, at the option of the bidder, be in the form of either (a) bank guarantee from any Scheduled Bank in Pakistan or (b) bank guarantee from a bank located outside Pakistan duly counter-guaranteed by a Scheduled Bank in Pakistan.

The cost of complying with requirements of this Sub-Clause shall be borne by the Contractor.

The following Sub-Clause 10.4 is added:

10.4 Performance Security Binding on Variations and Changes

The Performance Security shall be binding irrespective of changes in the quantities or variations in the Works or extensions in Time for Completion of the Works which are granted or agreed upon under the provisions of the Contract.

14.1 Programme to be Submitted

The programme shall be submitted within 42 days from the date of receipt of Letter of Acceptance, which shall be in the form of:

- i) a Bar Chart identifying the critical activities.
- ii) a CPM identifying the critical path/activities.
(Employer to select appropriate one)

14.3 Cash Flow Estimate to be Submitted

The detailed Cash Flow Estimate shall be submitted within 21 days from the date of receipt of Letter of Acceptance

The following Sub-Clause 14.5 is added:

14.5 Detailed Programme and Monthly Progress Report

- a) For purposes of Sub-Clause 14.1, the Contractor shall submit to the Engineer detailed programme for the following:
 - (1) Execution of Works;
 - (2) Labour Employment;
 - (3) Local Material Procurement;
 - (4) Material Imports, if any; and
 - (5) Other details as required by the Engineer.
- (b) During the period of the Contract, the Contractor shall submit to the Engineer not later than the 8th day of the following month, 10 copies each of Monthly Progress Reports covering:
 - (1) A Construction Schedule indicating the monthly progress in percentage;
 - (2) Description of all work carried out since the last report;
 - (3) Description of the work planned for the next 56 days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;
 - (4) Monthly summary of daily job record;
 - (5) Photographs to illustrate progress ;and
 - (6) Information about problems and difficulties encountered, if any, and proposals to overcome the same.
- (c) During the period of the Contract, the Contractor shall keep a daily record of the work

progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment.

The following Sub-Clauses 15.2 and 15.3 are added:

15.2 Language Ability of Contractor's Representative

The Contractor's authorised representative shall be fluent in the English language. Alternately an interpreter with ability of English language shall be provided by the Contractor on full time basis.

15.3 Contractor's Representative

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

The Contractor's authorised representative at Site shall be authorised to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract.

The following Sub-Clauses 16.3 and 16.4 are added:

16.3 Language Ability of Superintending Staff of Contractor

A reasonable proportion of the Contractor's superintending staff shall have a working knowledge of the English language. If the Contractor's superintending staff are not fluent in English language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.

16.4 Employment of Local Personnel

The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labour from sources within Pakistan.

The following Sub-Clauses 19.3 and 19.4 are added:

19.3 Safety Precautions

In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorise or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose.

The Contractor shall make, maintain and submit reports to the Engineer concerning safety, health and welfare of persons and damage to property, as the Engineer may from

time to time prescribe.

19.4 Lighting Work at Night

In the event of work being carried out at night, the Contractor shall at his own cost, provide and maintain such good and sufficient light as will enable the work to proceed satisfactorily and without danger. The approaches to the Site and the Works where the night-work is being carried out shall be sufficiently lighted. All arrangement adopted for such lighting shall be to the satisfaction of the Engineer's Representative.

20.4 Employer's Risks

The Employer's risks are:

Delete the text and substitute with the following:

- (a) insofar as they directly affect the execution of the Works in Pakistan:
 - (i) war and hostilities (whether war be declared or not), invasion, act of foreign enemies,
 - (ii) rebellion, revolution, insurrection, or military or usurped power, or civil war,
 - (iii) ionizing radiations, or contamination by radioactivity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof,
 - (iv) pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds,
 - (v) riot, commotion or disorder, unless solely restricted to the employees of the Contractor or of his Subcontractors and arising from the conduct of the Works;
- (b) loss or damage due to the use or occupation by the Employer of any Section or part of the Permanent Works, except as may be provided for in the Contract;
- (c) loss or damage to the extent that it is due to the design of the Works, other than any part of the design provided by the Contractor or for which the Contractor is responsible; and
- (d) any operation of the forces of nature (insofar as it occurs on the Site) which an experienced contractor:
 - (i) could not have reasonably foreseen, or
 - (ii) could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures:
 - (a) prevent loss or damage to physical property from occurring by taking appropriate measures, or
 - (b) insure against.

21.1 Insurance of Works and Contractor's Equipment

(Employer may vary this Sub-Clause 21.1 (b))

21.4 Exclusions

The text is deleted and substituted with the following:

There shall be no obligation for the insurances in Sub-Clause 21.1 to include loss or damage caused by the risks listed under Sub-Clause 20.4 paras (a) (i) to (iv).

The following Sub-Clause 25.5 is added:

25.5 Insurance Company

The Contractor shall be obliged to place all insurances relating to the Contract (including, but not limited to, the insurances referred to in Clauses 21, 23 and 24) with either National Insurance Company of Pakistan or any other insurance company operating in Pakistan and acceptable to the Employer.

Costs of such insurances shall be borne by the Contractor.

The following Sub-Clause 31.3 is added:

31.3 Co-operation with other Contractors

During the execution of the Works, the Contractor shall co-operate fully with other contractors working for the Employer at and in the vicinity of the Site and also shall provide adequate precautionary facilities not to make himself a nuisance to local residents and other contractors.

The following Sub-Clauses 34.2 to 34.12 are added:

34.2 Rates of Wages and Conditions of Labour

The Contractor shall pay rates of wages and observe conditions of labour not less favourable than those established for the trade or industry where the work is carried out. In the absence of any rates of wages or conditions of labour so established, the Contractor shall pay rates of wages and observe conditions of labour which are not less favourable than the general level of wages and conditions observed by other employers whose general circumstances in the trade or in industry in which the Contractor is engaged are similar.

34.3 Employment of Persons in the Service of Others

The Contractor shall not recruit his staff and labour from amongst the persons in the services of the Employer or the Engineer; except with the prior written consent of the Employer or the Engineer, as the case may be.

34.4 Housing for Labour

Save insofar as the Contract otherwise provides, the Contractor shall provide and maintain such housing accommodation and amenities as he may consider necessary for all his supervisory staff and labour, employed for the purposes of or in connection with the Contract including all fencing, electricity supply, sanitation, cookhouses, fire prevention, water supply and other requirements in connection with such housing accommodation or amenities. On completion of the Contract, these facilities shall be handed over to the Employer or if the Employer so desires, the temporary camps or housing provided by the Contractor shall be removed and the Site reinstated to its original condition, all to the approval of the Engineer.

34.5 Health and Safety

Due precautions shall be taken by the Contractor, and at his own cost, to ensure the safety of his staff and labour at all times throughout the period of the Contract. The Contractor shall further ensure that suitable arrangements are made for the prevention of epidemics and for all necessary welfare and hygiene requirements.

34.6 Epidemics

In the event of any outbreak of illness of an epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government, or the local medical or sanitary authorities, for purpose of dealing with and overcoming the same.

34.7 Supply of Water

The Contractor shall, so far as is reasonably practicable, having regard to local conditions, provide on the Site, to the satisfaction of the Engineer or his representative, adequate supply of drinking and other water for the use of his staff and labour.

34.8 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Statutes, Ordinances and Government Regulations or Orders for the time being in force, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or suffer any such importation, sale, gift, barter or disposal by his Subcontractors, agents, staff or labour.

34.9 Arms and Ammunition

The Contractor shall not give, or otherwise dispose of to any person or persons, any arms or ammunition of any kind or permit or suffer the same as aforesaid.

34.10 Festivals and Religious Customs

The Contractor shall in all dealings with his staff and labour have due regard to all recognised festivals, days of rest and religious and other customs.

34.11 Disorderly Conduct

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst staff and labour and for the preservation of peace and protection of persons and property in the neighbourhood of the Works against the same.

34.12 Compliance by Subcontractors

The Contractor shall be responsible for compliance by his Subcontractors of the provisions of this Clause.

The following Sub-Clauses 35.2 and 35.3 are added:

35.2 Records of Safety and Health

The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer may from time to time prescribe.

35.3 Reporting of Accidents

The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.

The following Sub-Clause 36.6 is added:

36.6 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.

41.1 Commencement of Works

The text 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.

The following Sub-Clause 47.3 is added:

47.3 Bonus for Early Completion of Works

The Contractor shall in case of earlier completion for either whole or part(s) of the Works pursuant to Sub-Clauses 48.1 and 48.2(a) respectively of the General Conditions of Contract, be paid bonus up-to a limit and at a rate equivalent to 50% of the relevant limit and rate of liquidated damages prescribed in Appendix-A to Bid “Special Stipulations”.

48.2 Taking Over of Sections or Parts

For the purposes of para (a) of this Sub-Clause, separate Times for Completion shall be provided in the Appendix-A to Bid “Special Stipulations”.

51.2 Instructions for Variations

At the end of the first sentence, after the word “Engineer”, the words “in writing” are added.

52.1 Valuation of Variations

In the tenth line, after the words “Engineer shall” the following is added:
within a period not exceeding one-eighth of the completion time subject to a minimum of 56 days from the date of disagreement whichever is later.

53.4 Failure to Comply

This Sub-Clause is deleted in its entirety.

54.3 Customs Clearance

(Employer may vary this Sub-Clause)

54.5 Conditions of Hire of Contractor’s 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-Clauses 59.4 & 59.5 are added:

59.4 Payments to Nominated Subcontractors

The Contractor shall pay to the nominated Subcontractor the amounts which the Engineer certifies to be due in accordance with the subcontract. These amounts plus other charges shall be included in the Contract Price in accordance with Clause 58 [Provisional Sums], except as stated in Sub-Clause 59.5 [Certification of Payments].

59.5 Certification of Payments & Nominated Subcontractors

Before issuing a Payment Certificate which includes an amount payable to a nominated Subcontractor, the Engineer may request the Contractor to supply reasonable evidence that the nominated Subcontractor has received all amounts due in accordance with previous Payment Certificates, less applicable deductions for retention or otherwise. Unless the Contractor:

- a) submits reasonable evidence to the Engineer, or
- b)
 - i) satisfies the Engineer in writing that the Contractor is reasonably entitled to withhold or refuse to pay these amounts, and
 - ii) submits to the Engineer reasonable evidence that the nominated Subcontractor has been notified of the Contractor's entitlement,

then the Employer may (at his sole discretion) pay direct to the nominated Subcontractor, part or all of such amounts previously certified (less applicable deductions) as are due to the nominated Subcontractor and for which the Contractor has failed to submit the evidence described in sub-paragraphs (a) or (b) above. The Contractor shall then repay, to the Employer, the amount which the nominated Subcontractor was directly paid by the Employer.

60.1 Monthly Statements

In the first line after the word "shall", the following is added:

"on the basis of the joint measurement of work done under Clause 56.1,"

In Para (c) the words "the Appendix to Tender" are deleted and substituted with the words " Sub-Cause 60.11 (a)(6) hereof".

(in case Clause 60.11 is applicable)

60.2 Monthly Payments

In the first line, "28" is substituted by "14".

60.10 Time for Payment

The text is deleted and substituted with the following:

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract, shall , subject to Clause 47, be paid by the Employer to the Contractor within 30 days after such Interim Payment Certificate has been jointly verified by Employer and Contractor, or, in the case of the Final Certificate referred to in Sub Clause 60.8, within 60 days after such Final Payment Certificate has been jointly verified by Employer and Contractor; Provided that the Interim Payment shall be caused in 42 days and Final Payment in 60 days in case of foreign funded project. In the event of the failure of the Employer to make payment within the times stated, the Employer shall pay to the Contractor

compensation at the 28 days rate of KIBOR+2% per annum for local currency and LIBOR+1% for foreign currency, upon all sums unpaid from the date by which the same should have been paid. The provisions of this Sub-Clause are without prejudice to the Contractor's entitlement under Clause 69.

The following Sub-Clause 60.11 is added:

60.11 Secured Advance on Materials

- a) The Contractor shall be entitled to receive from the Employer Secured Advance against an indemnity bond acceptable to the Employer 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:
- (1) The materials are in accordance with the Specifications for the Permanent Works;
 - (2) Such materials have been delivered to the Site and are properly stored and protected against loss or damage or deterioration to the satisfaction of the Engineer but at the risk and cost of the Contractor;
 - (3) 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;
 - (4) 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 therefor;
 - (5) Ownership of such materials shall be deemed to vest in the Employer and these materials shall not be removed from the Site or otherwise disposed of without written permission of the Employer; and
 - (6) 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 other materials.
- (b) The recovery of Secured Advance paid to the Contractor under the above provisions shall be effected from the monthly payments on actual consumption basis.

60.11 Financial Assistance to Contractor

Financial assistance shall be made available to the Contractor by the Employer by adopting any one of the following three Alternatives:

(Appropriate alternative only to be retained)

Alternative One: Mobilization Advance

- (a) An interest-free Mobilization Advance up to 15 % of the Contract Price stated in the Letter of Acceptance shall be paid by the Employer to the Contractor in two equal parts upon submission by the Contractor of a Mobilization Advance Guarantee/Bond for the full amount of the Advance in the specified form from a Scheduled Bank in Pakistan or an insurance company acceptable to the Employer:
- (1) First part within 14 days after signing of the Contract Agreement or date of receipt of Engineer's Notice to Commence, whichever is earlier; and
 - (2) Second part within 42 days from the date of payment of the first part, subject to the satisfaction of the Engineer as to the state of mobilization of the Contractor.
- (b) This Advance shall be recovered in equal instalments; first instalment at the expiry of third month after the date of payment of first part of Advance and the last instalment two months before the date of completion of the Works as per Clause 43 hereof.

Alternative Two: Mobilization/ Demobilization Cost

Mobilization Cost shall be paid to the Contractor as a part of the priced Bill of Quantities. This cost shall not exceed 10 % of the Tender Price and shall be paid to the Contractor as follows:

- (i) 80 % of the Mobilization Cost shall be paid for mobilization at Site. This payment shall be in three stages as follows:
- Stage I: 20 % of Mobilization Cost upon obtaining and furnishing of Performance Security and insurance policies and construction of camp and housing facilities as required under the Contract;
- Stage II: 30 % of Mobilization Cost upon providing & installing preliminary requirements of Contractor's Equipment, materials and temporary structures for the commencement of Works to the satisfaction of the Engineer and achieving 3 % value of the Works (excluding payment under Stage-I);
- Stage III: 30 % of Mobilization Cost upon providing balance Contractor's Equipment to complete full requirement for the entire work and after achievement of progress to the extent of 6 % value of the Works (excluding payments under Stages I and II); and
- (ii) 20 % of Mobilization Cost shall be paid for operation and maintenance of the constructed facilities and for demobilization as per schedule of payment to be submitted by the Contractor in accordance with Clause 57.2 and approved by

the Engineer.

Alternative Three: Materials Supplied by Employer

The Employer shall supply to the Contractor materials, like cement, steel, bitumen or any other material whichever deemed necessary to complete the project; and the cost thereof shall be recovered from the Contractor through monthly statements on the basis of actual consumption.

The list of materials, quantities and rates to be charged to the Contractor shall be provided alongwith Appendix-A to Bid “Special Stipulations”.

(Employer may opt either “Secured Advance on Materials” or “Financial Assistance to Contractor”)

63.1 Default of Contractor

The following para is added at the end of the Sub-Clause:

Provided further that in addition to the action taken by the Employer against the Contractor under this Clause, the Employer 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.

65.2 Special Risks

The text is deleted and substituted with the following:

The Special Risks are the risks defined under Sub-Clause 20.4 sub paragraphs (a) (i) to (a) (v).

67. 3 Arbitration

In the sixth to eight lines, the words “shall be finally settled appointed under such Rules” are deleted and substituted with the following:

shall be finally settled under the provisions of the Arbitration Act, 1940 as amended or any statutory modification or re-enactment thereof for the time being in force.

The following paragraph is added:

The place of arbitration shall be, Pakistan.

68.1 Notice to Contractor

The following paragraph is added:

For the purposes of this Sub-Clause, the Contractor shall, immediately after receipt of Letter of Acceptance, intimate in writing to the Employer and the Engineer by registered post, the address of his principal place of business or any change in such address during the period of the Contract.

68.2 Notice to Employer and Engineer

For the purposes of this Sub-Clause, the respective address are:

- a) The Employer :
_____ (to be filled in by the Employer as appropriate)
- b) The Engineer:
_____ (to be filled in by the Employer as appropriate)

70.1 Increase or Decrease of Cost

Sub-Clause 70.1 is deleted in its entirety, and substituted with the following:

The amounts payable to the Contractor, pursuant to Sub-Clause 60.1, shall be adjusted in respect of the rise or fall in the cost of labor, materials, and other inputs to the Works, by applying to such amount the formula prescribed in this Sub-Clause.

(a) Other Changes in Cost

To the extent that full compensation for any rise or fall in costs to the Contractor is not covered by the provisions of this or other Clauses in the Contract, the unit rates and prices included in the Contract shall be deemed to include amounts to cover the contingency of such other rise or fall of costs.

(b) Adjustment Formula

The adjustment to the monthly statements in respect of changes in cost shall be determined from the following formula:-

$$P_n = A + b \frac{L_n}{L_o} + c \frac{M_n}{M_o} + d \frac{E_n}{E_o} + \dots$$

Where:

P_n is a price adjustment factor to be applied to the amount for the payment of the work carried out in the subject month, determined in accordance with Paragraph 60.1 (a), and with Paragraphs 60.1 (b) and (e), where any variations and daywork are not otherwise subject to adjustment;

A is a constant, specified in Appendix-C to Bid, representing the nonadjustable portion in contractual payments;

b, c, d, \dots , are weightages or coefficients representing the estimated proportion of each cost element (labour, cement and reinforcing steel etc.) in the Works or Sections thereof, net of Provisional Sums and Prime Cost; the sum of A, b, c, d, \dots , shall be one;

L_n, M_n, E_n, \dots , are the current cost indices or reference prices of the cost elements for month "n", determined pursuant to Sub-Clause 70.1(d), applicable to each cost element; and

L_o, M_o, E_o, \dots , are the base cost indices or reference prices corresponding to the

above cost elements at the date specified in Sub-Clause 70.1(d).

(c) Sources of Indices and Weightages

The sources of indices shall be those listed in Appendix-C to Bid, as approved by the Engineer. As the proposed basis for price adjustment, the Contractor shall have submitted with his bid the tabulation of Weightages and Source of Indices if different than those given in Appendix-C to Bid, which shall be subject to approval by the Engineer.

(d) Base, Current, and Provisional Indices

The base cost indices or prices shall be those prevailing on the day 28 days prior to the latest date for submission of bids. Current indices or prices shall be those prevailing on the day 28 days prior to the last day of the period to which a particular monthly statement is related. If at any time the current indices are not available, provisional indices as determined by the Engineer will be used, subject to subsequent correction of the amounts paid to the Contractor when the current indices become available.

(e) Adjustment after Completion

If the Contractor fails to complete the Works within the Time for Completion prescribed under Clause 43, adjustment of prices thereafter until the date of completion of the Works shall be made using either the indices or prices relating to the prescribed time for completion, or the current indices or prices, whichever is more favorable to the Employer, provided that if an extension of time is granted pursuant to Clause 44, the above provision shall apply only to adjustments made after the expiry of such extension of time.

(f) Weightages

The weightages for each of the factors of cost given in Appendix-C to Bid shall be adjusted if, in the opinion of the Engineer, they have been rendered unreasonable, unbalanced, or inapplicable as a result of varied or additional work executed or instructed under Clause 51. Such adjustment(s) shall have to be agreed in the variation order.

The following Sub-Clauses 73.1, 73.2, 74.1, 75.1, 76.1, 77.1 and 78.1 are added:

73.1 Payment of Income Tax

The Contractor, Subcontractors and their employees shall be responsible for payment of all their income tax, super tax and other taxes on income arising out of the Contract

and the rates and prices stated in the Contract shall be deemed to cover all such taxes.

73.2 Customs Duty & Taxes

(Employer may incorporate provisions where applicable)

74.1 Integrity Pact

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 Employer 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 Employer 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 63.1 to 63.4 and the payment under Sub-Clause 63.3 shall be made after having deducted the amounts due to the Employer under Sub-Para (a) and (c) of this Sub-Clause.

75.1 Termination of Contract for Employer's Convenience

The Employer shall be entitled to terminate the Contract at any time for the Employer's convenience after giving 56 days prior notice to the Contractor, with a copy to the Engineer. In the event of such termination, the Contractor :

- (a) shall proceed as provided in Sub-Clause 65.7 hereof; and
- (b) shall be paid by the Employer as provided in Sub-Clause 65.8 hereof.

76.1 Liability of Contractor

The Contractor or his Subcontractors or assigns shall follow strictly, all relevant labour laws including the Workmen's Compensation Act and the Employer shall be fully indemnified for all claims, damages etc. arising out of any dispute between the Contractor, his Subcontractors or assigns and the labour employed by them.

77.1 Joint and Several Liability

If the Contractor is a joint venture of two or more persons, all such persons shall be jointly and severally bound to the Employer for the fulfilment of the terms of the Contract and shall designate one of such persons to act as leader with authority to bind the joint venture. The composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer.

78.1 Details to be Confidential

The Contractor shall treat the details of the Contract as private and confidential, save in so far as may be necessary for the purposes thereof, and shall not publish or disclose the same or any particulars thereof in any trade or technical paper or elsewhere without the prior consent in writing of the Employer or the Engineer. If any dispute arises as to the necessity of any publication or disclosure for the purpose of the Contract, the same shall be referred to the decision of the Engineer whose award shall be final.

**SPECIFICATIONS-
SPECIAL PROVISIONS**

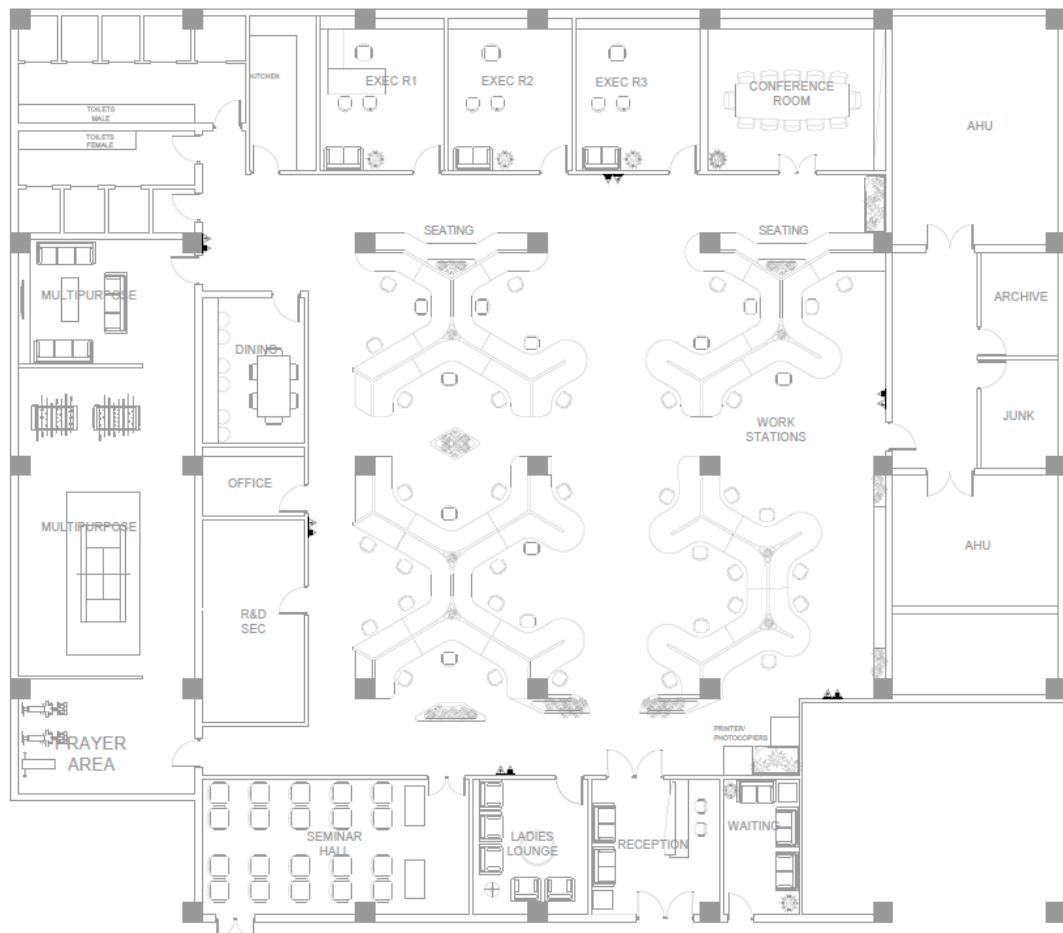
**SPECIFICATIONS-
TECHNICAL PROVISIONS**

ELECTRO-MECHANICAL DRAWINGS

FIRE SUPPRESSION

GENERAL NOTES :

1. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.
2. THE FIRE FIGHTING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROPRIATE ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND OTHER MECHANICAL DRAWINGS AND EQUIPMENT SCHEDULES.
3. ALL MATERIALS AND METHODS OF INSTALLATION SHALL COMPLY FULLY WITH THE REQUIREMENTS OF THE SPECIFICATION.
4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND FREE FROM ANY DEFECTS AND SHALL BE MAINTAINED AS SUCH DURING THE CONSTRUCTION PERIOD.
5. ALL FASTENINGS AND SUPPORTS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY THE SIZING, SPACING AND TYPES OF FASTENINGS AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND TO THE APPROVAL OF THE ENGINEER OR HIS REPRESENTATIVE.



PLUMBING







































WATER SUPPLY SYSTEM

- 1 ALL DIMENSIONS ARE IN INCHES UNLESS INDICATED OTHERWISE.
- 2 THE PUBLIC HEALTH DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROPRIATE ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, AND OTHER MECHANICAL DRAWINGS AND EQUIPMENT SCHEDULES.
- 3 ALL MATERIALS AND METHODS OF INSTALLATION SHALL COMPLY FULLY WITH THE REQUIREMENTS OF THE SPECIFICATION.
- 4 ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND FREE FROM ANY DEFECTS AND SHALL BE MAINTAINED AS SUCH DURING THE CONSTRUCTION PERIOD.
- 5 PIPES PENETRATING THROUGH FLOORS, ROOFS AND WALLS SHALL BE PROVIDED WITH PIPE SLEEVES WITH ANNULAR SPACES FILLED WITH APPROVED COMPOUND AND SHALL BE TIGHTLY CAULKED.
- 6 ALL UNDERGROUND WATER VALVES SHALL HAVE CAST IRON VALVE BOXES IN LOCATIONS INDICATED THE DRAWINGS. CAST IRON SINGLE SEAL COVERS WITH IDENTIFICATION VALVES DURING USE AND REPAIRS.
- 7 ALL PIPES FITTINGS SHALL BE THOROUGHLY PROTECTED FROM ANY HAZARDS AND SHALL HAVE SUPPORTS, ANCHORS OR HANGERS AS DEEMED NECESSARY AS REQUIRED BY THE TECHNICAL SPECIFICATIONS.
- 8 INSTALLATION OF THE EQUIPMENT, PIPES AND FITTINGS UNDER PUBLIC HEALTH SERVICES SHALL BE EXECUTED IN FULL COORDINATION WITH THE ARCHITECTURAL, LANDSCAPE, STRUCTURAL, ELECTRICAL, AND OTHER MECHANICAL DRAWINGS AND SCHEDULES.
- 9 THE MECHANICAL CONTRACTORS SHALL PROVIDE ELECTRICAL WIRING FOR MECHANICAL EQUIPMENT UP TO THE ISOLATORS PROVIDED BY THE ELECTRICAL CONTRACTORS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MOTOR CONTROL CENTERS AND CONTROL PANELS OF HIS SUPPLIED EQUIPMENT.
- 10 ALL SANITARY FIXTURE WITHOUT INTEGRAL P-TRAPS SUCH BIDETS, CHANNELS, ETC. SHALL PROVIDED WITH APPROPRIATE P-TRAPS APPROVED BY THE SITE ENGINEER.
- 11 IF APPLICABLE THE WATER STORAGE TANKS SHALL INCLUDE FLOAT BALL VALVE, FOOT VALVE AT PUMP SUCTION LINE, RELIEF VENTS, ACCESS LADDER OR CLIMBING RUNGS, OVERFLOW PIPE, FROG AND LOW CUT-OFF LEVEL SWITCHES, MANIFOLDS WITH AIR TIGHT COVERS, AND PROVISIONS FOR PIPE CONNECTIONS.
- 12 THE CONTRACTOR SHALL BE RESPONSIBLE TO TOTALLY PREVENT CONTAMINATION OF THE POTABLE WATER SYSTEM.
- 13 DIFFERING MATERIALS IN CONTACT WITH EACH OTHER SHALL BE FULLY COMPATIBLE AND SHALL NOT BETWEEN THEM, PRODUCE ANY ELECTROLYTIC ACTION.
- 14 ALL FASTENINGS AND SUPPORTS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY THE SPACING AND TYPES OF FASTENINGS AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE APPROVAL OF THE ENGINEER OR HIS APPROVED REPRESENTATIVE.
- 15 ALL EQUIPMENT AND ACCESSORIES UNDER PUBLIC HEALTH ENGINEERING SERVICES SHALL BE INSTALLED IN SUCH A MANNER TO ALLOW ADEQUATE SPACE FOR SERVICING MAINTENANCE AND REPLACEMENT.
- 16 UNLESS OTHERWISE INDICATED ON DRAWINGS WATER SUPPLY PIPES INSIDE THE BUILDING SHALL BE PPRC PIPE VALVES SINGLE VALVES SHALL BE PROVIDED BEFORE EACH WATER OUTLET OF ALL SANITARY FIXTURES.
- 17 IF APPLICABLE 600x600MM ACCESS PANELS ARE REQUIRED FOR PERIODIC MAINTENANCE OPERATION FOR THE WATER SUPPLY GATE VALVES.

DRAINAGE SYSTEM

- 1 ALL DIMENSIONS ARE IN INCHES UNLESS INDICATED OTHERWISE.
- 2 THE PUBLIC HEALTH DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROPRIATE ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL, AND OTHER MECHANICAL DRAWINGS AND EQUIPMENT SCHEDULES.
- 3 ALL MATERIALS AND METHODS OF INSTALLATION SHALL COMPLY FULLY WITH THE REQUIREMENTS OF THE SPECIFICATION.
- 4 ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND FREE FROM ANY DEFECTS AND SHALL BE MAINTAINED AS SUCH DURING THE CONSTRUCTION PERIOD.
- 5 ALL PIPES FITTINGS SHALL BE THOROUGHLY PROTECTED FROM ANY HAZARDS AND SHALL HAVE SUPPORTS, ANCHORS OR HANGERS AS DEEMED NECESSARY AS REQUIRED BY THE TECHNICAL SPECIFICATIONS.
- 6 INSTALLATION OF THE EQUIPMENT, PIPES AND FITTINGS UNDER PUBLIC HEALTH SERVICES SHALL BE EXECUTED IN FULL COORDINATION WITH THE ARCHITECTURAL, LANDSCAPE, STRUCTURAL, ELECTRICAL, AND OTHER MECHANICAL DRAWINGS AND SCHEDULES.
- 7 MINIMUM SLOPES OF SOIL AND WASTE PIPES IN THE BUILDINGS SHALL BE 1% WATER TRAP SEALS AND CLEANOUTS SHALL BE INSTALLED AT LOCATIONS INDICATED ON THE DRAWINGS.
- 8 VENT TERMINALS SHALL BE LOCATED AT LEAST 1 METERS FROM AIR HANDLING UNITS.
- 9 IF APPLICABLE - DRAINAGE MANHOLE COVERS AND CLEANOUTS LOCATED ON THE PAVEMENTS AND ROADS SHALL HAVE SIMILAR.

SYMBOL LEGEND

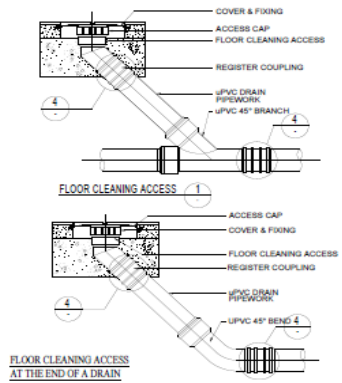
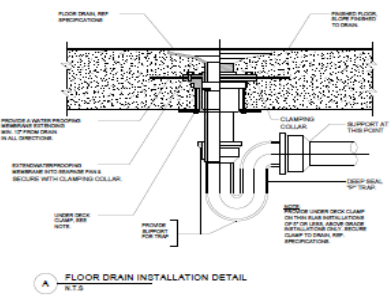
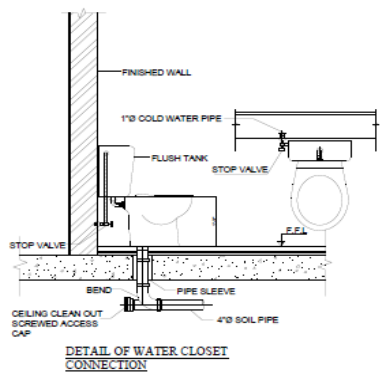
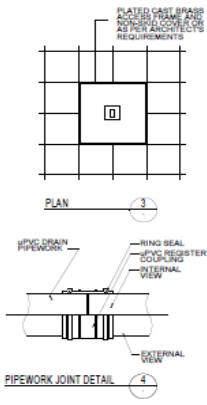
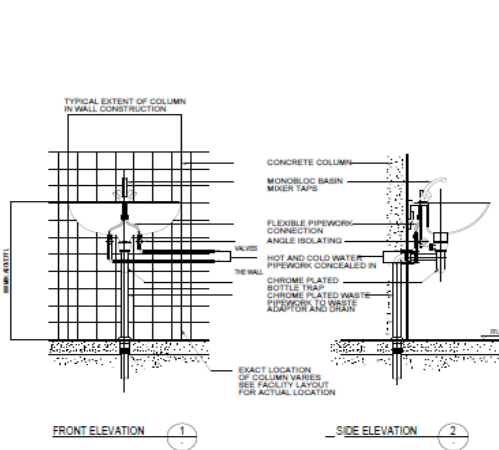
	WATER TRANSFER PUMP
	WATER TRANSFER SUBMERSIBLE PUMP
	INSTANTANEOUS WATER HEATER
	SUPPLY LINE FROM U.G.W.T TO G.H.W.T
	COLD WATER SUPPLY PIPE LINE (CWS)
	HOT WATER SUPPLY PIPE LINE (HWS)
	RETURN PIPE LINE (RWR)
	PIPE DOWN
	PIPE UP
	PIPE COOLING
	MIXER OUTLET
	COLD WATER OUTLET
	COLD WATER OUTLET
	MUSLIM SHOWER
	FLOAT SWITCH
	FLOAT VALVE
	GATE VALVE
	NON-RETURN VALVE
	IN-LINE STRAINER
	STRAINER
	HOSE BIB
	SEWAGE EJECTOR PUMP
	MANHOLE
	SEWERAGE PIPE LINE
	SOIL PIPE LINE (SP)
	WASTE PIPE LINE (WP)
	VENT PIPE LINE (VP)
	RAIN PIPE LINE (RP)
	PIPE CONNECTOR
	VENT COWL
	FLOOR DRAIN
	FLOOR CLEANOUT
	LINE CLEANOUT
	DIRECTION OF FLOW
	ARROW
	GREASE INTERCEPTOR
	HOSE BIBB
	LPO CYLINDER
	PRESSURE REGULATOR VALVE
	SHUT OFF VALVE

ABBREVIATIONS

AAV	AUTOMATIC AIR VALVE
EWB	WATER STANDARDS
BLDG	BUILDING
CAP	CAPACITY
CO	CLEANOUT
CP	CONTROL PANEL
CV	CHECK VALVE
CWL	COLD WATER LINE
CWR	COLD WATER RISER
DEG.	DEGREES
DA	DIAMETER
DP	DRAIN PIPE
DPP	DRAIN PRESSURE PIPE
DWO	DRAINING
EFF	EFFECTIVE
EX	EXISTING
F/A	FROM ABOVE
FB	FROM BELOW
FC	FLEXIBLE CONNECTION
F/FBT	FLOOR/FLOOR FINISHED FLOOR LEVEL
FFL	FLOOR FINISHED FLOOR LEVEL
L	LITRES
L.L.	LOW LEVEL
NO.	NUMBER
NRV	NON-RETURN VALVE
NTS	NOT TO SCALE
FD	FLOOR DRAIN
FEJ	FLOOR EJECTION
FR	FLOOR RISER
FTB	FLOOR TO BELOW
HL	HIGH LEVEL
HW	POTABLE WATER SUSPENDED CEILING
SCV	SUSPENDED CEILING
SCH	SCHEDULE
S.S.	STAINLESS STEEL
STO	STORAGE
SN	SLOPE PERCENT
T/A	TO ABOVE
T/B	TO BELOW
TEMP	TEMPERATURE
TL	TOP LEVEL
TWL	TOP WATER LEVEL
TYP.	TYPICAL
UG	UNDERGROUND
LD	LIGHT DUTY
UPVC	UNPASTERIZED POLYVINYL CHLORIDE
AC	ACCESS
US	UNDER SLAB
VB	VALVE BOX
VC	VENT COWL
VP	VENT PIPE
VS	VENT STACK
VSTR	VENT STACK THROUGH ROOF
Ø	PIPE NOMINAL DIAMETER
°C	CENTIGRADE
MD	MEDIUM DUTY
L/S	LITRES PER SECOND
FGL	FINISHED GRADE LEVEL
GPM	GALLONS (U.S.) PER MINUTE
HB	HOSE BIB
HL	HIGH LEVEL
IL	INVERT LEVEL
IV	ISOLATING VALVE
GV	GATE VALVE
WP	WASTE PRESSURIZE PIPE
IDL	IRRIGATION LINE
CD	CONDENSATE DRAIN
C.B	CATCH BASIN



ALL VENT & DOMESTIC WATER SUPPLY PIPING SHALL BE AT HIGH LEVEL.
 INTERNAL DIA OF PIPES ARE MENTIONED ON THE DRAWINGS.
 CONTRACTOR TO COORDINATE TIE-IN POINTS ON SITE FOR DRAINAGE &
 WATER SUPPLY PRIOR TO EXECUTION OF WORKS.



HVAC

SYMBOL LEGEND:

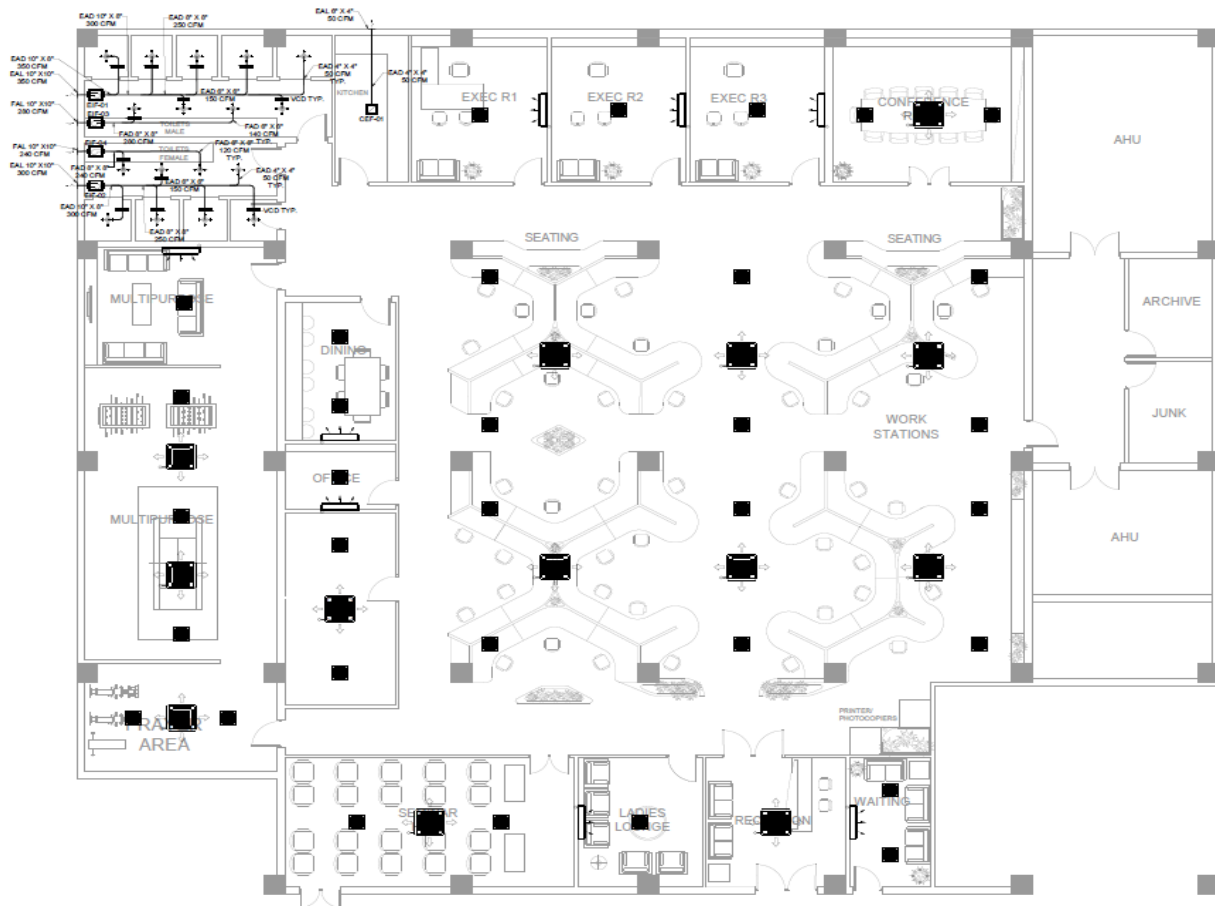
	DUCT SECTION, EXHAUST AIR DOWN
	DUCT SECTION, EXHAUST AIR UP
	DUCT SECTION, STANDARD BRANCH FOR SUPPLY AND RETURN
	DUCT SECTION, SUPPLY AIR
	DUCT SECTION, SUPPLY AIR DOWN
	MOTORIZED VOLUME CONTROL DAMPER
	VARIABLE AIR VOLUME
	EXHAUST AIR DIFFUSER- ED
	ACCESS DOOR
	FLEXIBLE DUCT
	DIRECTION OF FLOW
	UNDER CUT
	COOLING COIL/HEATING COIL
	WIRED THERMOSTAT
	AIRFLOW SWITCH
	SUPPLY/EXHAUST FAN
	FIRE ALARM CONTROL PANEL
	DIFFERENTIAL PRESSURE SENSOR
	LINEAR SLOT SUPPLY DIFFUSER
	LINEAR SLOT RETURN / EXHAUST
	SQUARE SUPPLY DIFFUSER
	RETURN / EXHAUST GRILL
	BELL MOUTH OPENING
	CASSETTE TYPE CEILING FAN
	CASSETTE TYPE

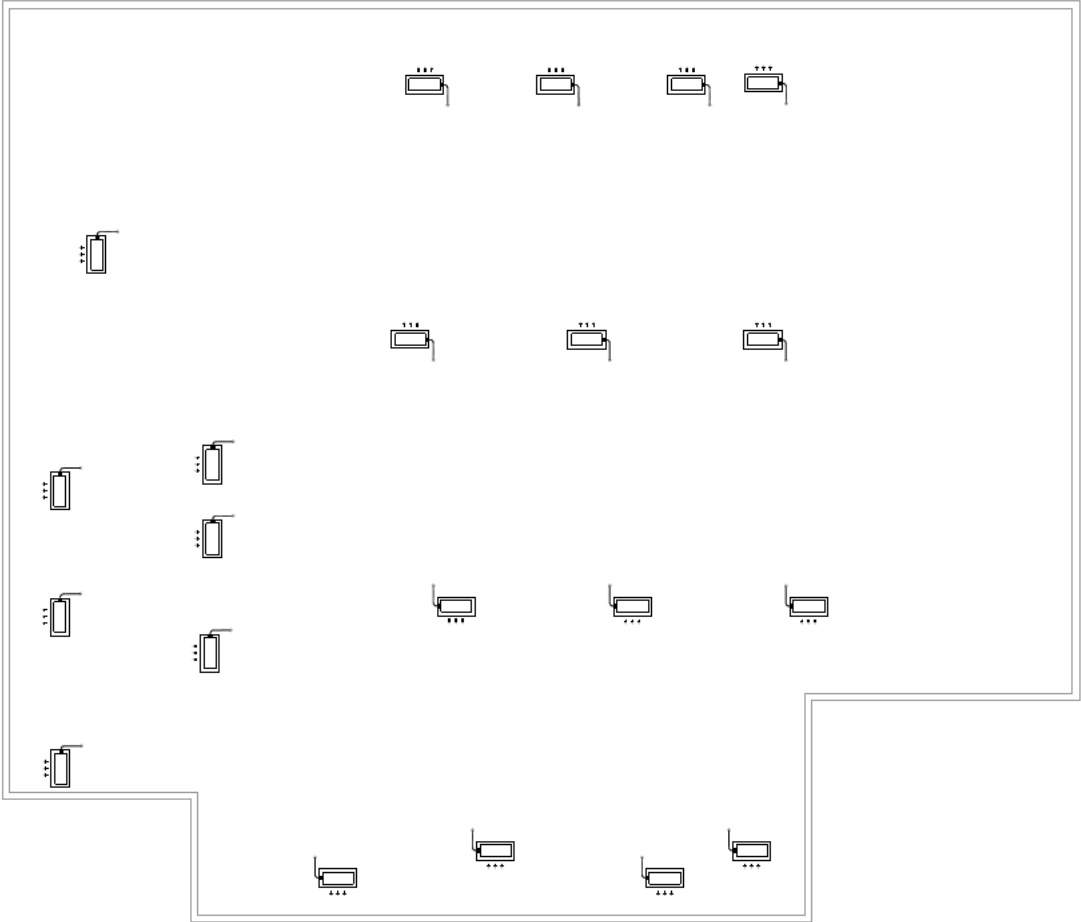
ABBREVIATIONS:

CL	CEILING LEVEL
Ø	DIAMETER
°C	DEGREE CELSIUS
DB	DRY BULB
DN	DOWN
EA	EXHAUST AIR
EAD	EXHAUST AIR DUCT
EAF	EXHAUST AIR FAN
EAG	EXHAUST AIR GRILLE
FA	FROM ABOVE
FAD	FRESH AIR DUCT
FAF	FRESH AIR FAN
FAI	FRESH AIR INTAKE
FB	FROM BELOW
HL	HIGH LEVEL
Hz	HERTZ
KEH	KITCHEN EXHAUST HOOD
KEF	KITCHEN EXHAUST FAN
KG	KILOGRAMS
KW	KILOWATT
LL	LOW LEVEL
m	METRE
mm	MILLIMETRE
NTS	NOT TO SCALE
Pa	PASCAL
Ph	PHASE
TA	TO ABOVE
TB	TO BELOW
TYP.	TYPICAL
V	VOLT
VCD	VOLUME CONTROL DAMPER
M-VCD	MOTORIZED VOLUME CONTROL DAMPER
CU	CONDENSER UNIT
TC	TOTAL COOLING CAPACITY
SC	SENSIBLE COOLING CAPACITY
L	LIQUID REFRIGERANT PIPE
G	GAS REFRIGERANT PIPE
	EXHAUST GRILLE WITH BACK DRAFT DAMPER
SAG	SUPPLY AIR GRILLE
SAD	SUPPLY AIR DUCT
VRF	VARIABLE REFRIGERANT FLOW
mau	MAKE-UP AIR UNIT
BMO	BELL MOUTH OPENING
ERV	ENERGY RECOVERY VENTILATOR

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
2. THE MECHANICAL CONTRACTOR SHALL PROVIDE ELECTRICAL WIRING OF THE HVAC SYSTEM AND REMOTE CONTROL SENSORS / DEVICES UP TO THE ISOLATORS PROVIDED BY THE ELECTRICAL CONTRACTORS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RELAYS AND CONTROL RELATED DEVICES IN THE SUPPLIED EQUIPMENT.
3. THE FINISHES AND FINAL LOCATIONS OF EXHAUST GRILLES AND DIFFUSERS SHALL BE COORDINATED WITH THE ARCHITECT AND/OR INTERIOR DESIGNER.
4. ALL CONDENSATE DRAIN PIPING SHALL BE PROVIDED WITH P-TRAPS AND CONNECTED TO NEAREST FLOOR DRAINS IN ACCORDANCE WITH APPLICABLE PLUMBING CODES AND REGULATORY REQUIREMENTS.
5. THE HVAC DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL AND STRUCTURAL DRAWINGS, ELECTRICAL SERVICES, PLUMBING AND FIRE PROTECTION DRAWINGS, TECHNICAL SPECIFICATIONS AND STANDARD HVAC DETAILS DRAWINGS.
6. SLEEVES SHALL BE PROVIDED FOR ALL DUCTWORK AND PIPE WORK PASSING THROUGH WALLS AND SLABS AND SHALL BE PROPERLY FINISHED.
7. LOCATIONS AND SIZES OF ALL FLOORS AND WALLS, OPENING SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
8. ALL FRESH AIR INTAKES SHALL BE PROVIDED WITH SAND TRAP LOUVER AT A MAXIMUM VELOCITY OF 300 FPM, BIRD SCREEN AND 50mm THICK ALUMINUM CLEAN ABLE FILTER.
9. THE CIRCULAR EXTRACT AIR VALVES SHALL HAVE CENTER CORE ADJUSTABLE BY SCREW.
10. ALL CONDENSATE DRAIN SHALL BE PVC PIPE
11. SLOPE HORIZONTAL CONDENSATE DRAINS A MINIMUM OF 1/4" PER FOOT.
12. FRESH AIR INTAKE AND EXHAUST DUCT SHALL BE GALVANIZED SHEET METAL NO INSULATION EXCEPT AS NOTED IN THE EXHAUST FAN SCHEDULE.
13. SIZE ALL REFRIGERANT LINES TO MEET THE MANUFACTURERS RECOMMENDATION & SHALL REQUIRE LONG LINE ACCESSORIES.
14. PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, REGULATING DAMPERS AND MECHANICAL EQUIPMENT.
15. ALL SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, AND OTHER REQUIREMENTS, SHALL BE BASED ON SMACNA STANDARDS.





SCHEDULE OF VRF CONDENSING UNITS
 AMBIENT SUMMER (DRY/WET TEMP): 107 °F / 73 °F
 AMBIENT WINTER (DRY/WET TEMP): 35°F / -
 INDOOR DESIGN SUMMER (DRY/RH%): 73.4 °F / 30-60%
 INDOOR DESIGN WINTER (DRY/RH%): 73.4 °F / 30-60%

PPMC (COMMERCIAL)													
SCHEDULE OF VARIABLE REFRIGERANT FLOW SYSTEM (VRF) - HEATING & COOLING OPERATION MODE													
ZONE THERMOSTAT WIRELESS CONTROLLER	Area (FT²)	Outdoor Unit						PHASE	UNIT TYPE	Indoor unit			
		Tag	CFM	Cooling load (TR)	Cooling load (KW)	Heating load (MBH)	Power Input (KW)			Tag	Cooling load (TR)	Cooling load (KW)	MAX. In Power (W)
HALL	3794.0	CU-01	960	2.7	9.6	10.6	4.384	3-PHASE	CASSETTE TYPE	FCU-01	2.74	9.63	20
		CU-02	960	2.7	9.6	10.6	4.384			FCU-02	2.74	9.63	20
		CU-03	960	2.7	9.6	10.6	4.384			FCU-03	2.74	9.63	20
		CU-04	960	2.7	9.6	10.6	4.384			FCU-04	2.74	9.63	20
		CU-05	960	2.7	9.6	10.6	4.384			FCU-05	2.74	9.63	20
		CU-06	960	2.7	9.6	10.6	4.384			FCU-06	2.74	9.63	20
SAMINAR HALL	390	CU-07	960	1.9	6.8	7.5	3.104	SINGLE PHASE	WALL MOUNTED SPLIT TYPE	FCU-07	1.94	6.82	20
RECEPTION	188	CU-08	400	0.9	3.3	3.6	1.504			FCU-08	0.94	3.30	20
R&D SECTION	222	CU-09	400	1.1	3.9	4.3	1.776			FCU-09	1.11	3.90	20
MULTI PURPOSE	588	CU-10	590	1.5	5.3	5.8	2.4			FCU-10	1.50	5.27	20
		CU-11	590	1.5	5.3	5.8	2.4			FCU-11	1.50	5.27	20
CONFERENCE ROOM	290	CU-12	590	1.5	5.1	5.6	2.32			FCU-12	1.45	5.10	20
EXECUTIVE ROOM 3	200	CU-13	400	1.0	3.5	3.9	1.6	FCU-13	1.00	3.51	20		
EXECUTIVE ROOM 2	200	CU-14	400	1.0	3.5	3.9	1.6	FCU-14	1.00	3.51	20		
EXECUTIVE ROOM 1	200	CU-15	400	1.0	3.5	3.9	1.6	FCU-15	1.00	3.51	20		
MULTI PURPOSE	242	CU-16	400	1.0	3.5	3.9	1.6	CASSETTE TYPE	FCU-16	1.00	3.51	20	
DINNING	159	CU-17	400	1.0	3.5	3.9	1.6		FCU-17	1.00	3.51	20	
OFFICE	75	CU-18	400	1.0	3.5	3.9	1.6		FCU-18	1.00	3.51	20	
LADIES LOUNGE	168	CU-19	400	1.0	3.5	3.9	1.6		FCU-19	1.00	3.51	20	
WAITING ROOM	110	CU-20	400	1.0	3.5	3.9	1.6		FCU-20	1.00	3.51	20	
PRAYER AREA	221	CU-21	400	1.1	3.9	4.3	1.768		FCU-21	1.105	3.88297	20.0	

SCHEDULE OF AIR GRILLES WITH LOUVERS WITH BIRD SCREEN MESH

UNIT REF.	PATTERN / TYPE	size	QTY.	MAX. PRESSURE DROP (PA)	MAX. NO LEVEL
EAL	EXHAUST AIR GRILLE	10' X 10'	2	25	29
EAL	EXHAUST AIR GRILLE	8' X 4'	1	25	29
FAL	FRESH AIR GRILLE	10' X 10'	2	14	22

SCHEDULE OF ROUND SUPPLY/EXHAUST DIFFUSERS

UNIT REF.	PATTERN / TYPE	size	QTY	MAX. PRESSURE DROP (PA)	MAX. NO LEVEL
ED	ROUND TYPE	6" - DA	13	10	18
FD	ROUND TYPE	6" - DA	4	10	18

TOILET MALE VENTILATION SYSTEM

UNIT REFERENCE	FRESH AIR FAN	EXHAUST AIR FAN
TYPE	INLINE	INLINE
LOCATION	AS SHOWN ON DRAWING	AS SHOWN ON DRAWING
AIRFLOW, CFM	260	350
FAN E.S.P., PA(IN W.C)	100 (0.4)	100 (0.4)
MAX. FAN MOTOR INPUT AMPERE	1.5 AMPERE	1.5 AMPERE
ELECTRICAL SUPPLY (V/PH/Hz)	220/1/50	220/1/50
CONTROLLER	THERMOSTAT/CONTROL PANEL	THERMOSTAT/CONTROL PANEL
QUANTITY(S) - NO(S)	1	1

SCHEDULE OF KITCHEN HOOD EXHAUST FANS

UNIT REFERENCE	EF
TYPE / LOCATION	CEILING MOUNTED
SPACES SERVED	-
AIRFLOW, CFM	50
FAN E.S.P., PA	50
MAX. FAN MOTOR INPUT AMPERE	0.1 MAX.
ELECTRICAL SUPPLY (V/PH/Hz)	220 / 1 / 50
CONTROLLER	ON/OFF
QUANTITY (NOIS)	1

SCHEDULE OF CASSETTE TYPE CEILING FANS

UNIT REFERENCE	CF
TYPE / LOCATION	CEILING MOUNTED
SPACES SERVED	-
AIRFLOW, CFM	200
FAN E.S.P., PA	110
MAX. FAN MOTOR INPUT POWER WATT	30 W MAX.
ELECTRICAL SUPPLY (V/PH/Hz)	220 / 1 / 50
CONTROLLER	ON/OFF
QUANTITY (NOIS)	33

TOILET FEMALE VENTILATION SYSTEM































UNIT REFERENCE	FRESH AIR FAN	EXHAUST AIR FAN
TYPE	INLINE	INLINE
LOCATION	AS SHOWN ON DRAWING	AS SHOWN ON DRAWING
AIRFLOW, CFM	240	300
FAN E.S.P., PA(IN W.C)	100 (0.4)	100 (0.4)
MAX. FAN MOTOR INPUT AMPERE	1.5 AMPERE	1.5 AMPERE
ELECTRICAL SUPPLY (V/PH/Hz)	220/1/50	220/1/50
CONTROLLER	THERMOSTAT/CONTROL PANEL	THERMOSTAT/CONTROL PANEL
QUANTITY(S) - NO(S)	1	1

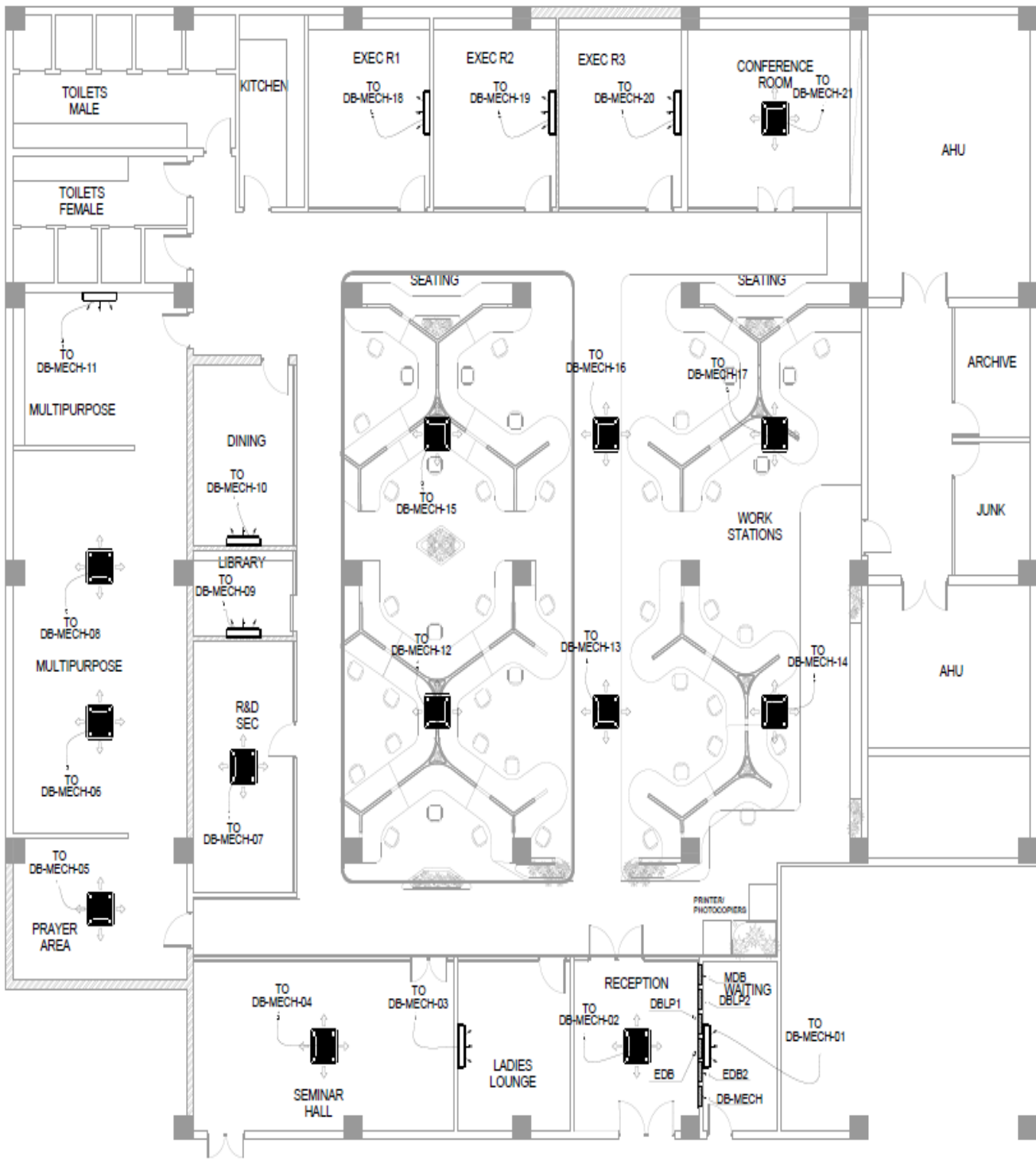
ELECTRICAL

GENERAL NOTES

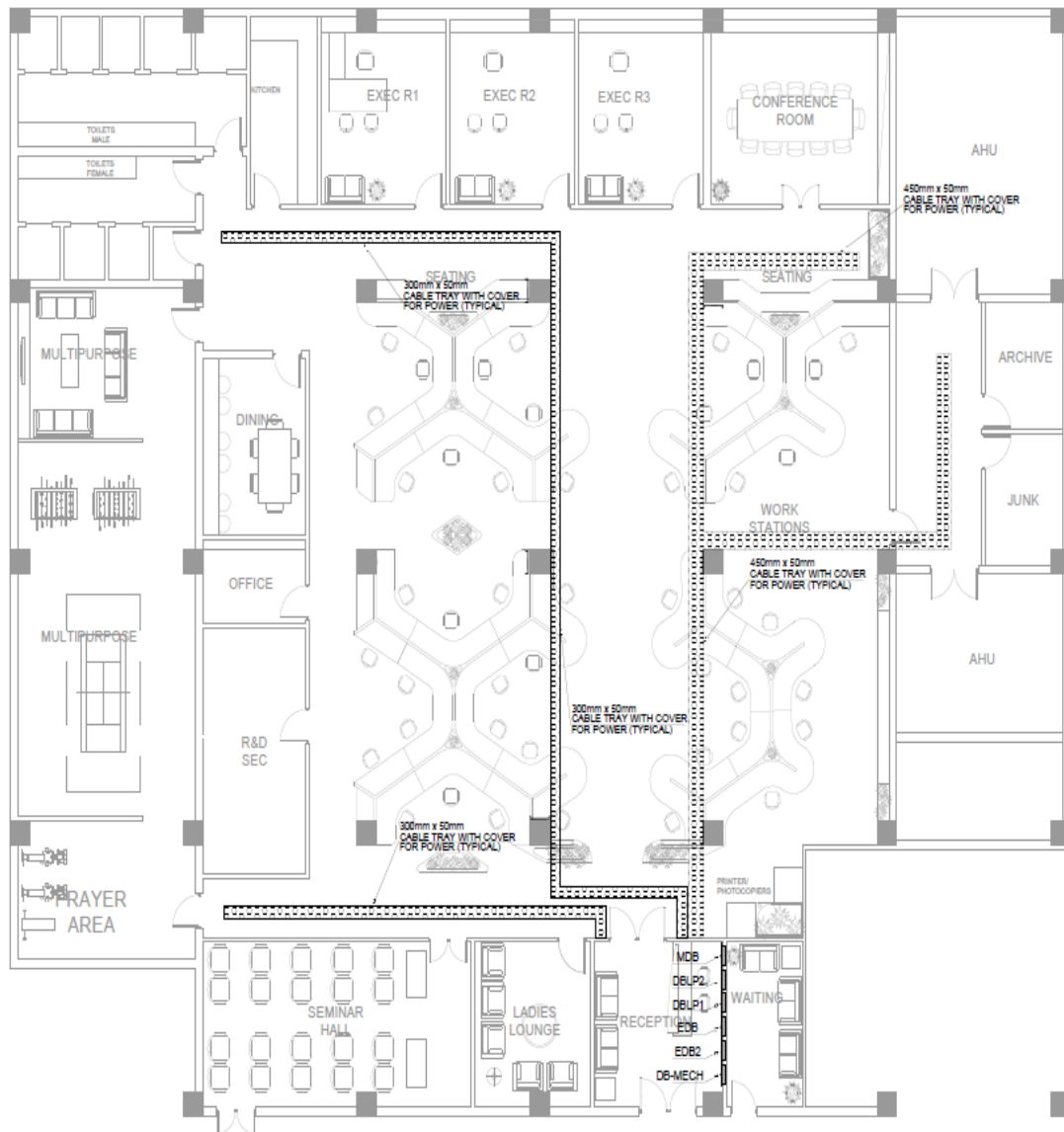
1. THE ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL ELECTRICAL SERVICE ROUGH-IN AND INSTALLATION DETAILS, WITH THE LOCAL POWER COMPANY.
2. NO PIPING OR DUCTWORK OF ANY KIND SHALL BE INSTALLED IN 2' ABOVE AND BOTTOM OF ANY SWITCHBOARD OR PANEL BOARD.
3. A CLEARANCE OF 36" MINIMUM SHALL BE MAINTAINED IN FRONT OF ELECTRICAL EQUIPMENT FOR THE ENTIRE WIDTH OF THE EQUIPMENT, PLUS A MINIMUM OF 30" TOTAL LEFT/RIGHT CLEARANCE.
4. DO NOT SCALE THE ELECTRICAL DRAWINGS; REFER TO THE ARCHITECTURAL PLANS FOR EQUIPMENT LOCATIONS, CABINETRY, CEILING GRIDS, DOOR SWINGS, ETC.
5. ALL PANELS, CABLE TRAYS AND OTHER COMPONENTS AS REQUIRED SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH NFPA 70.
6. ALL LV CONDUCTORS SHALL BE CU / PVC / PVC TYPE UNLESS OTHERWISE NOTIFIED ON THE DOCUMENTS. SEE PANELBOARD SCHEDULE.
7. ALL OUTLET LABELS, CABLE LABELS, PANEL LABELS SHALL BE TYPED WRITTEN IN ENGLISH AND URDU, AND SHALL BE COMPLETE IN ALL ASPECTS.
8. ALL SPARE ELECTRICAL CONDUITS NOT CONTAINING SPECIFIED CONDUCTORS SHALL HAVE A PULL WIRE INSTALLED.
9. DO NOT ENCASE ANY CONDUIT IN CONCRETE EXCEPT WHEN PROVIDED WITH FITTINGS IDENTIFIED FOR THIS PURPOSE AND ARE USED FOR CONNECTIONS.
10. USE RIGID GALVANIZED STEEL CONDUIT IN AREAS WHERE SUBJECT TO PHYSICAL DAMAGE INCLUDING BUT NOT LIMITED TO MECHANICAL AND ELECTRICAL EQUIPMENT ROOM.
11. THE CONTRACTOR SHALL PREPARE THE SITE COORDINATED SHOP DRAWINGS FOR ALL ELECTRICAL AND LOW CURRENT SYSTEMS BEFORE COMMENCING ANY EXECUTION ON SITE, AND SHALL ENSURE SAFETY OF ANY EXISTING ELECTRICAL / MECHANICAL SERVICES. THE CONTRACTOR SHALL ALSO COORDINATE THE CABLE ROUTING INCLUDING WITHIN AND OUTSIDE THE BUILDING ENVELOPE KEEPING IN CONSIDERATION THE VARYING SITE LEVELS, EXISTING SERVICES, ROAD CROSSING SERVICES TAPPING POINTS ETC AND SHALL GET APPROVED BY THE CLIENT OR AUTHORIZED REPRESENTATIVE.

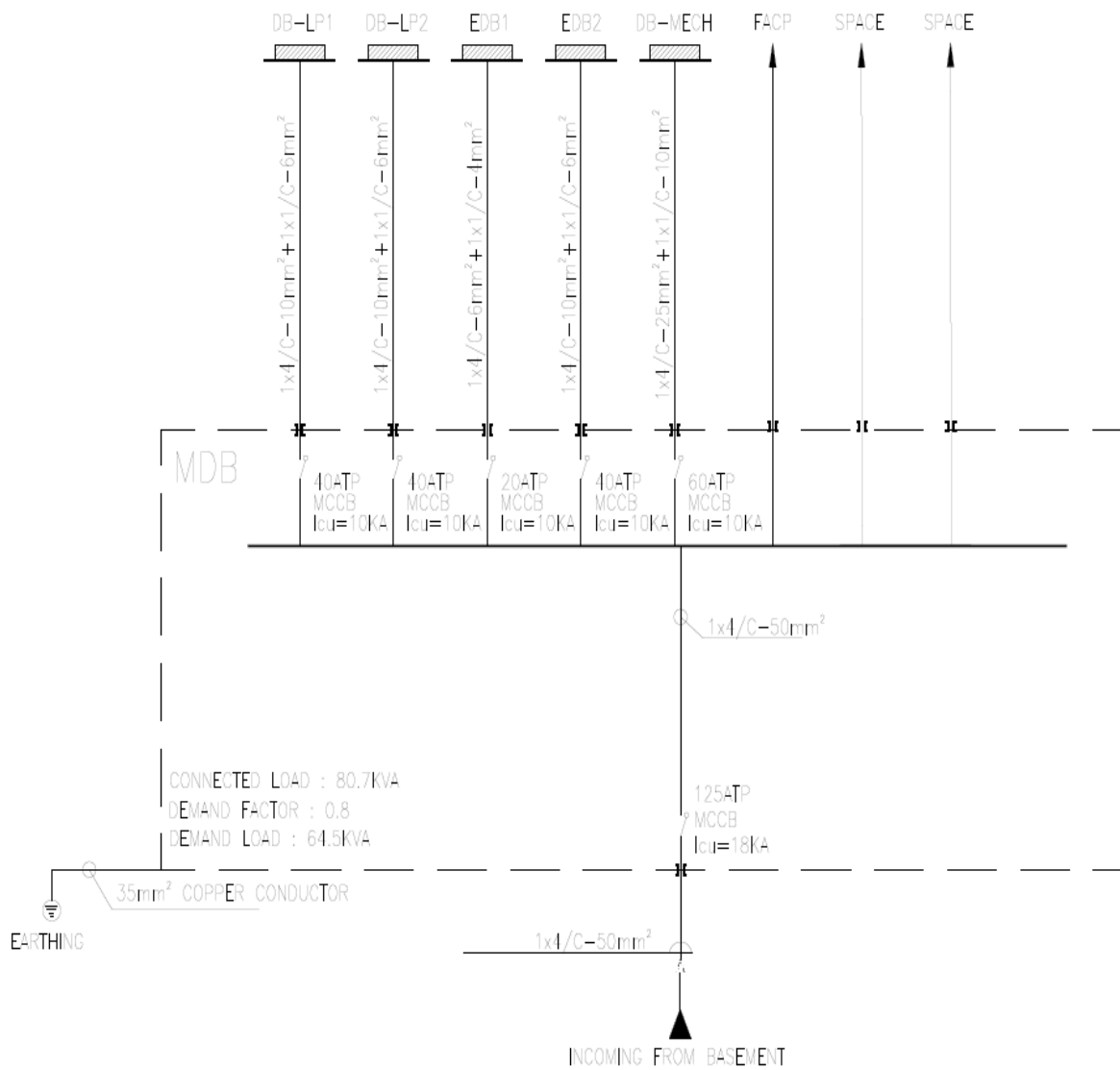
LEGEND

LIGHTING SYSTEM	
SYMBOL	DESCRIPTION
	LED DOWNLIGHT, RECESSED IN CEILING, 11WATT
	LED LIGHT, WALL MOUNTED, 25 WATT WEATHER PROOF
	CHANDELIER, SUBJECT TO ARCHITECTURAL / CLIENT SELECTION
	LED DOWNLIGHT, CEILING MOUNTED, 8 WATT
	LED LIGHT, WALL MOUNTED, 10 WATT
	MIRR LIGHT, 5 WATT
	CEILING FAN
	WALL MOUNTED EXHAUST FAN
	KEYPAD SWITCH
	SINGLE POLE SINGLE THROUGH 13A, 240V, 50Hz, 2 GANG LIGHT SWITCH INSTALL 1200mm AFF UON
POWER SYSTEM	
SYMBOL	DESCRIPTION
	SINGLE OUTLET 13A, 240V, 50Hz, 400mm AFF UON
	DUPLEX OUTLET 13A, 240V, 50Hz, 400mm AFF UON
	DUPLEX OUTLET 13A, 240V, 50Hz, GFCI
	SINGLE OUTLET 13A, 240V, 50Hz, WEATHER PROOF
	POWER JUNCTION BOX
	MOTOR CONTROL CENTER
	PANELBOARD FLUSHED
FIRE ALARM SYSTEM	
SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HEAT DETECTOR
	MANUAL CALL POINT
	FIRE ALARM SOUNDER
	FIRE ALARM CONTROL PANEL
CCTV SYSTEM	
SYMBOL	DESCRIPTION
	NETWORK VIDEO RECORDER
	LAN SWITCH
	BULLET CAMERA
	LED DISPLAY SCREEN
COMMUNICATION SYSTEM	
SYMBOL	DESCRIPTION
	TELEVISION OUTLET
	VOICE OUTLET
	WIRELESS ACCESS POINT
	LAN SWITCH

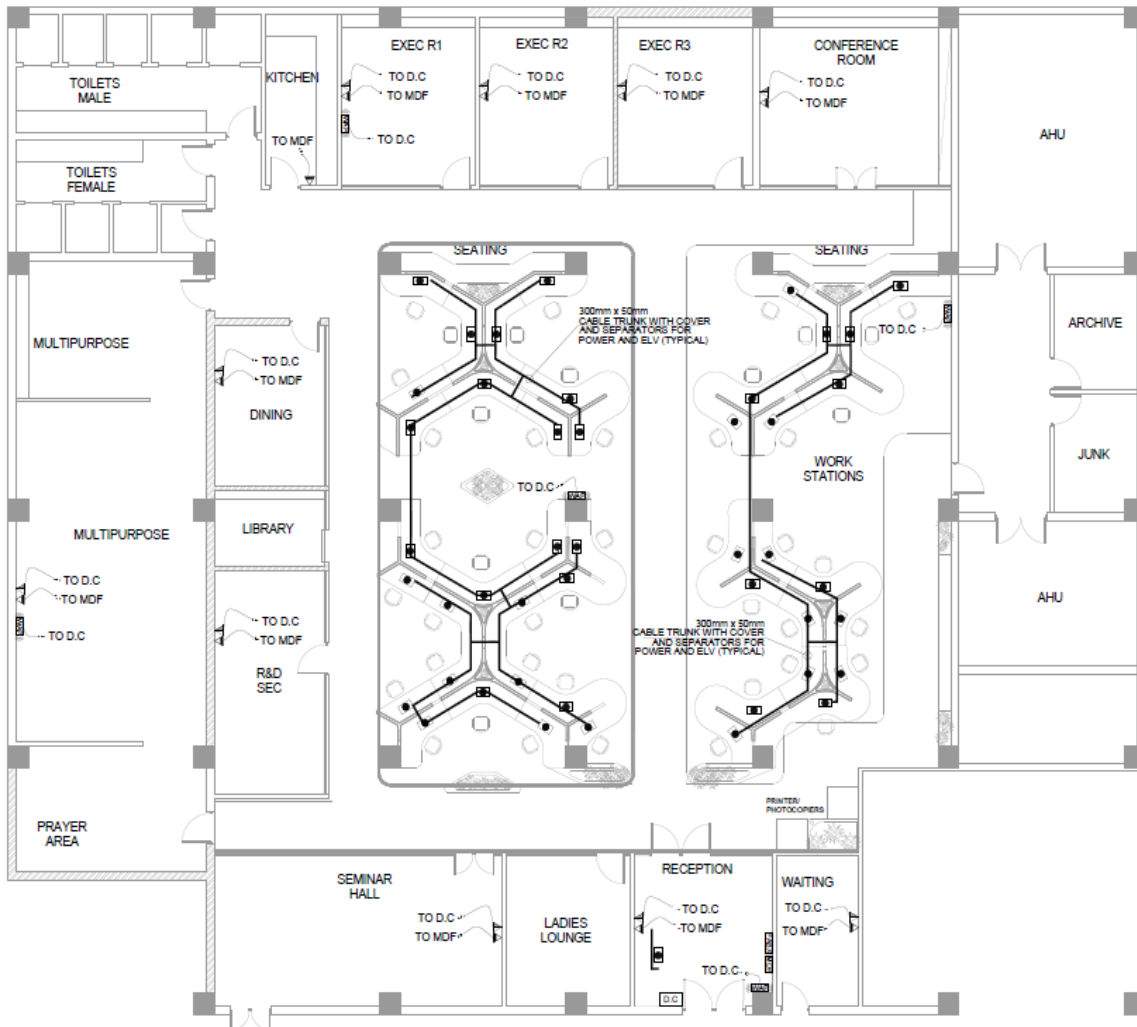




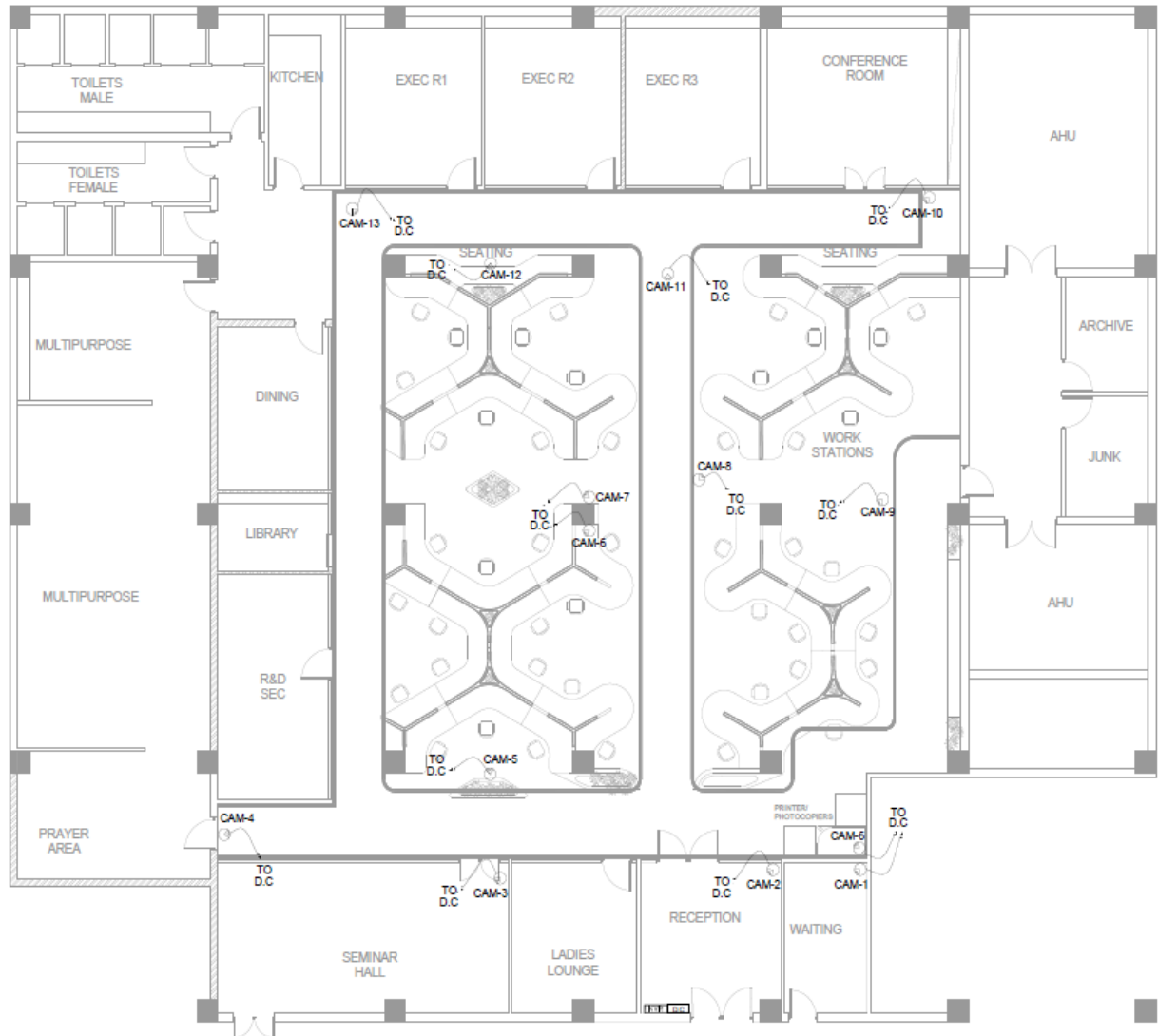




COMMUNICATIONS

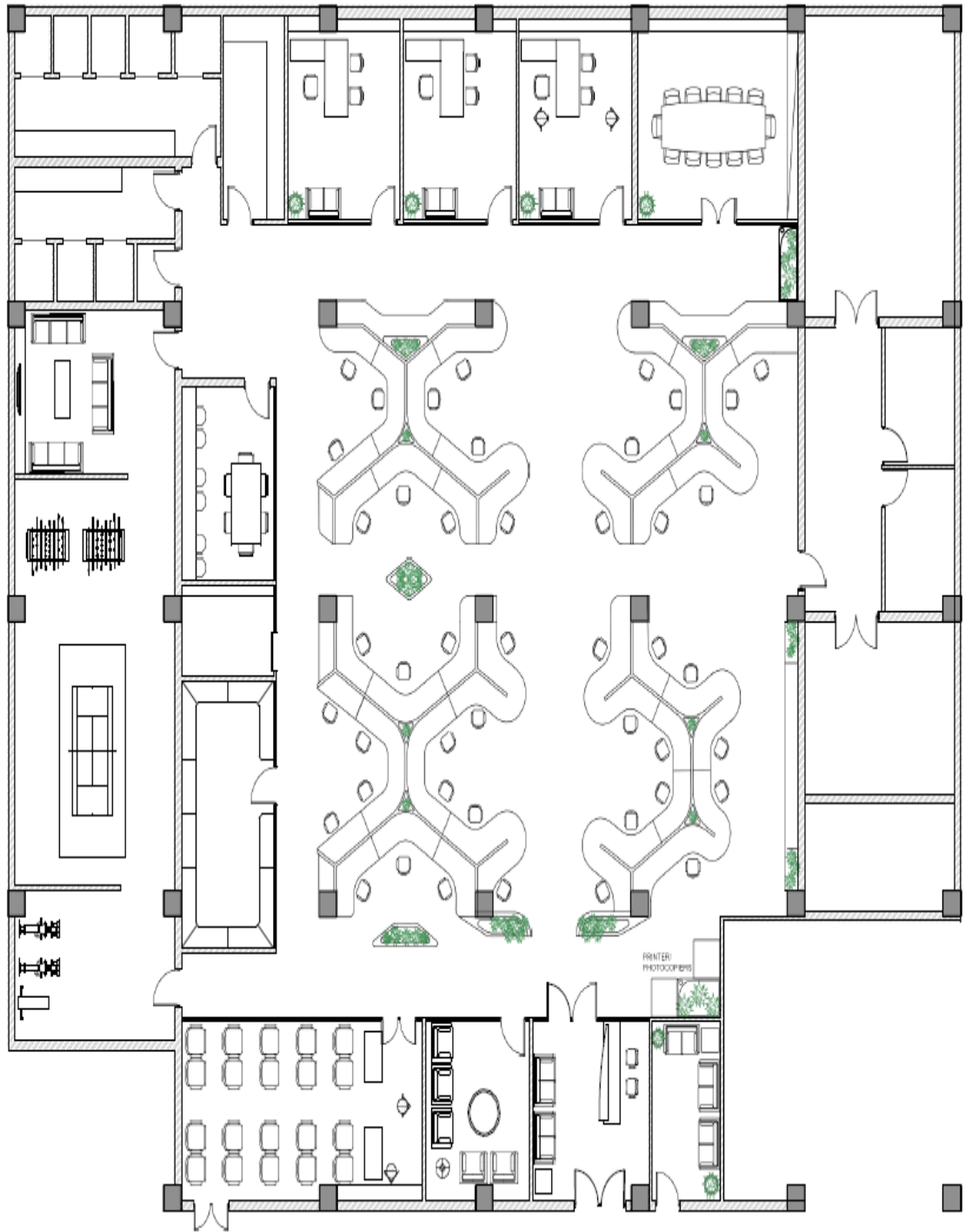


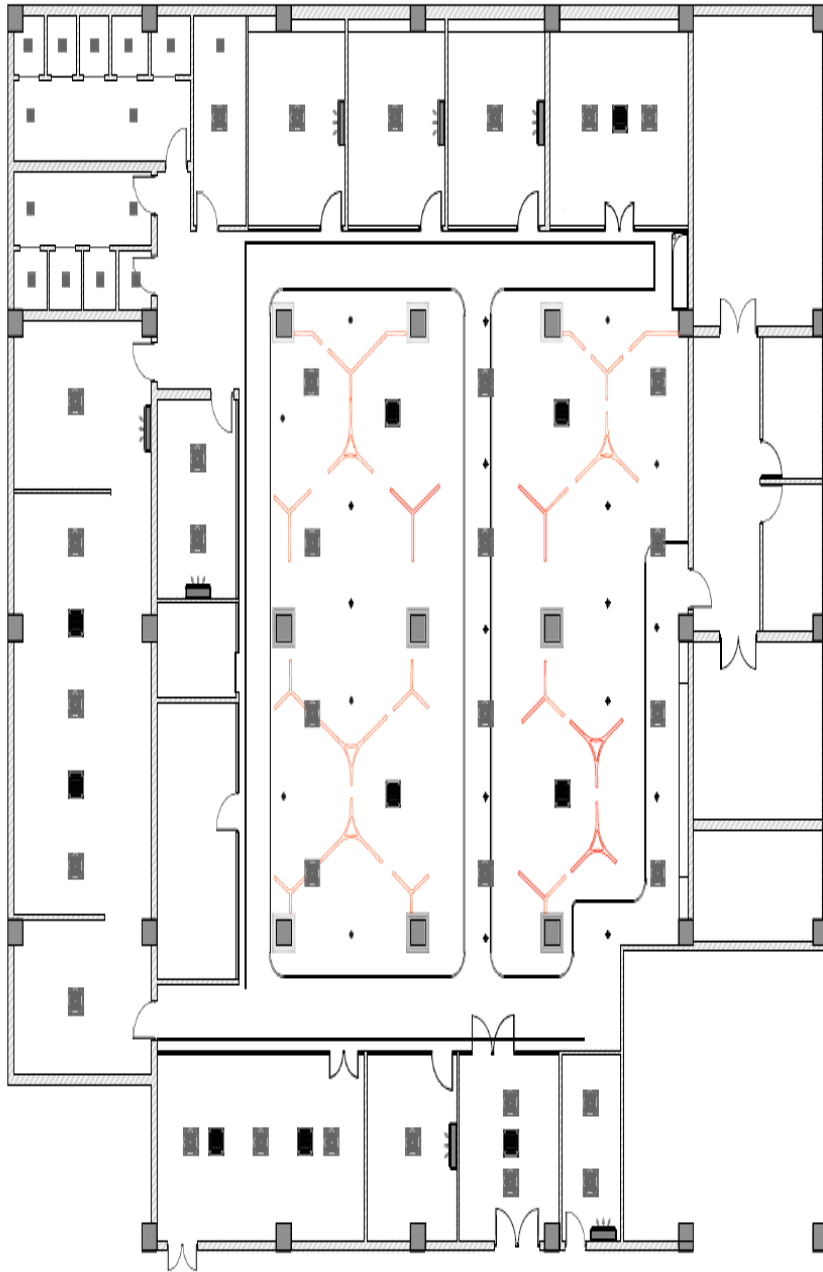
ELECTRONIC SAFETY & SECURITY





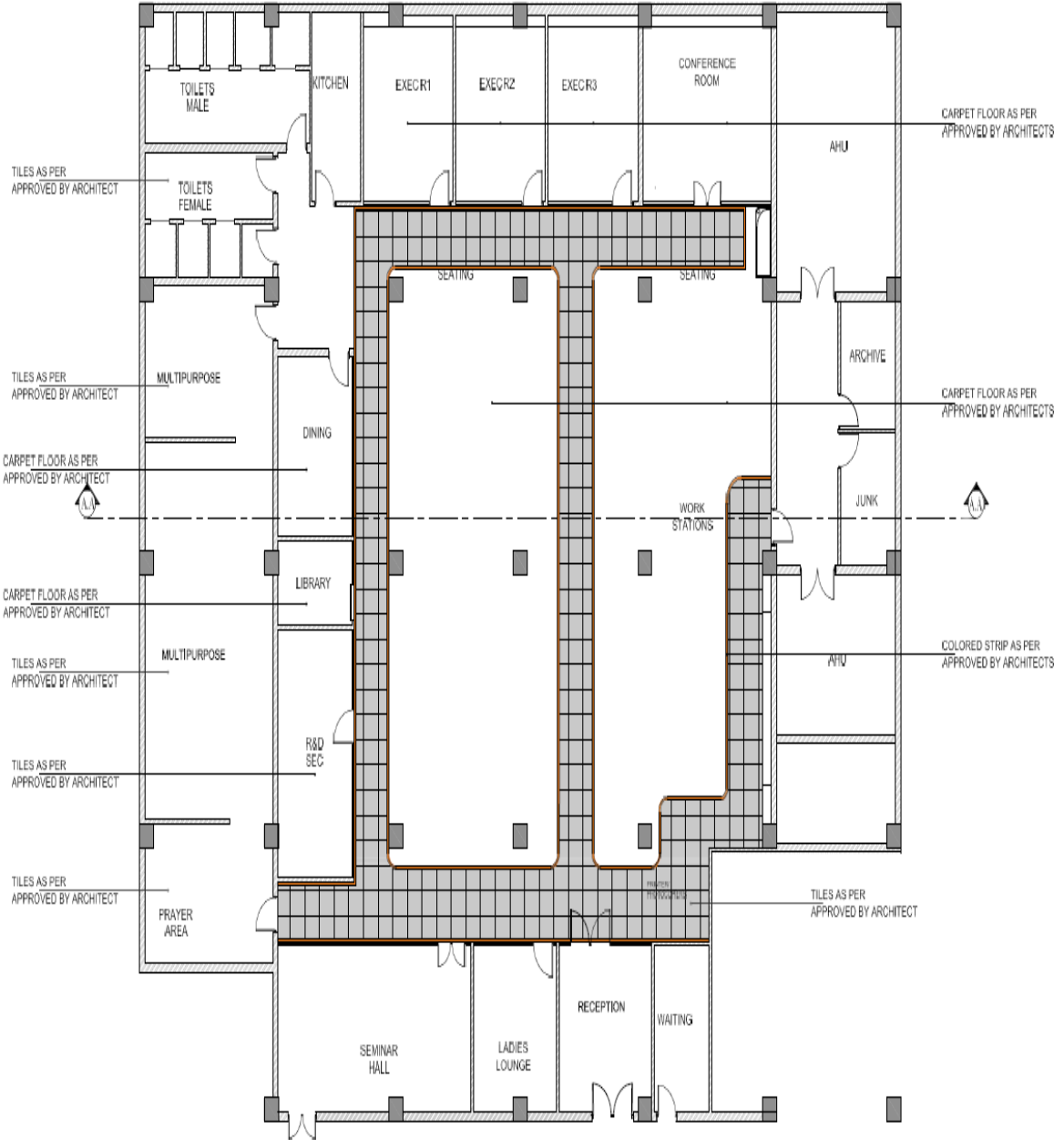
INTERIOR WORKING DRAWINGS

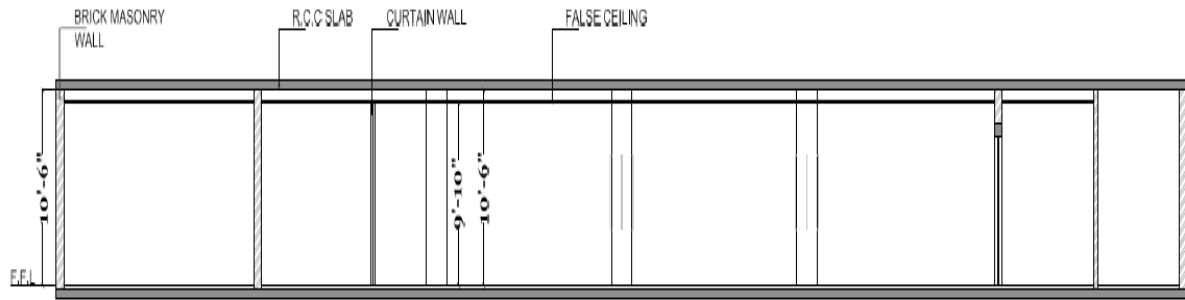




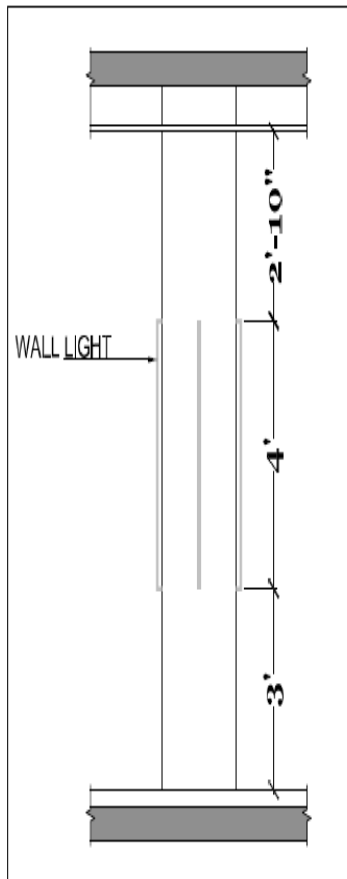
LEGEND

- CASSETTE AC 10 NO'S 
- CASSETTE FAN 36 NO'S 
- HANGING LIGHT 
- CEILING LIGHT 
- WALL MOUNTED AC 09 NO'S 
- CEILING EXHAUST FAN 13 NO'S 
- STRIP LIGHT TRACK 





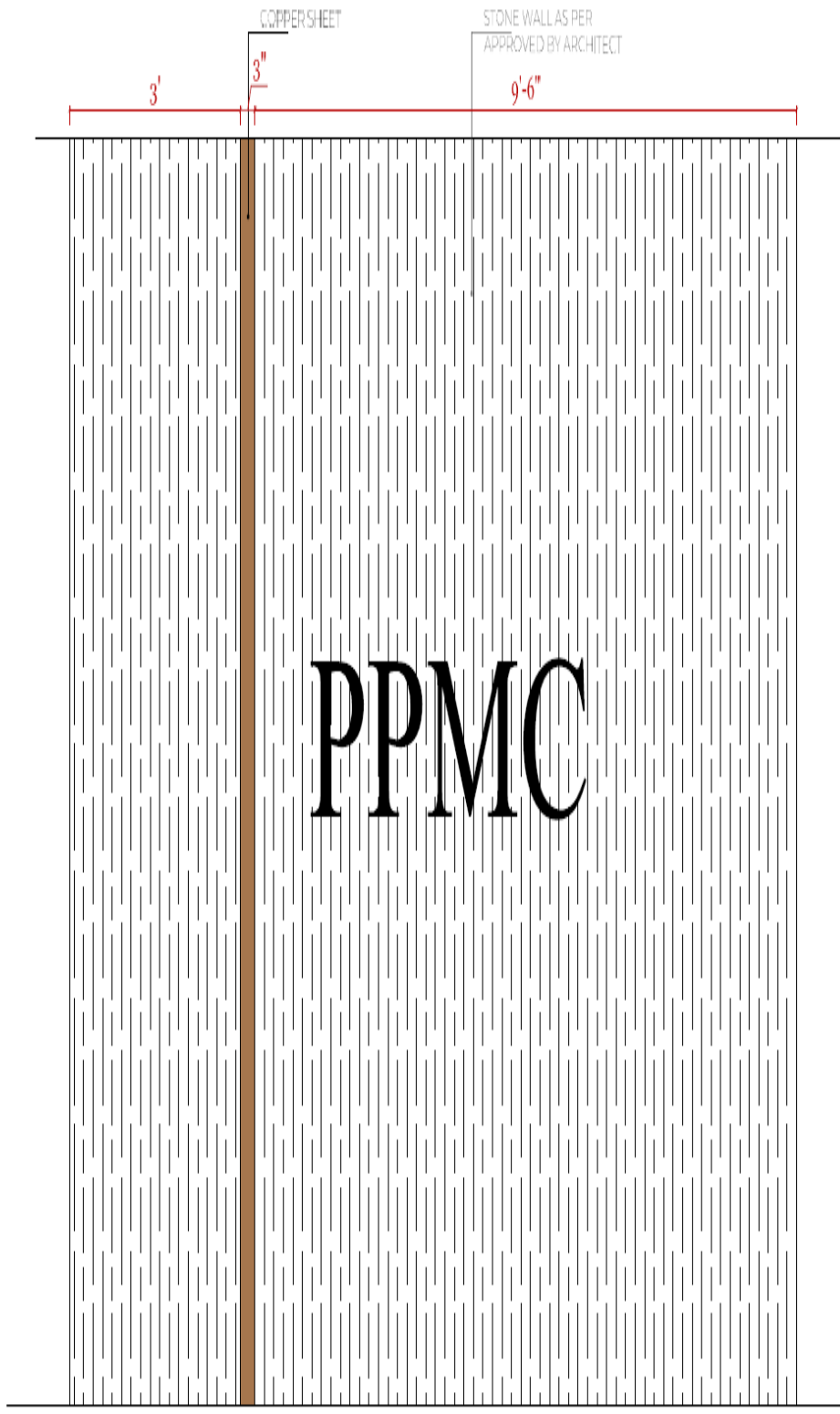
SECTION A-A



BLOWUP



RECEPTION AREA



COPPER SHEET

STONE WALL AS PER
APPROVED BY ARCHITECT

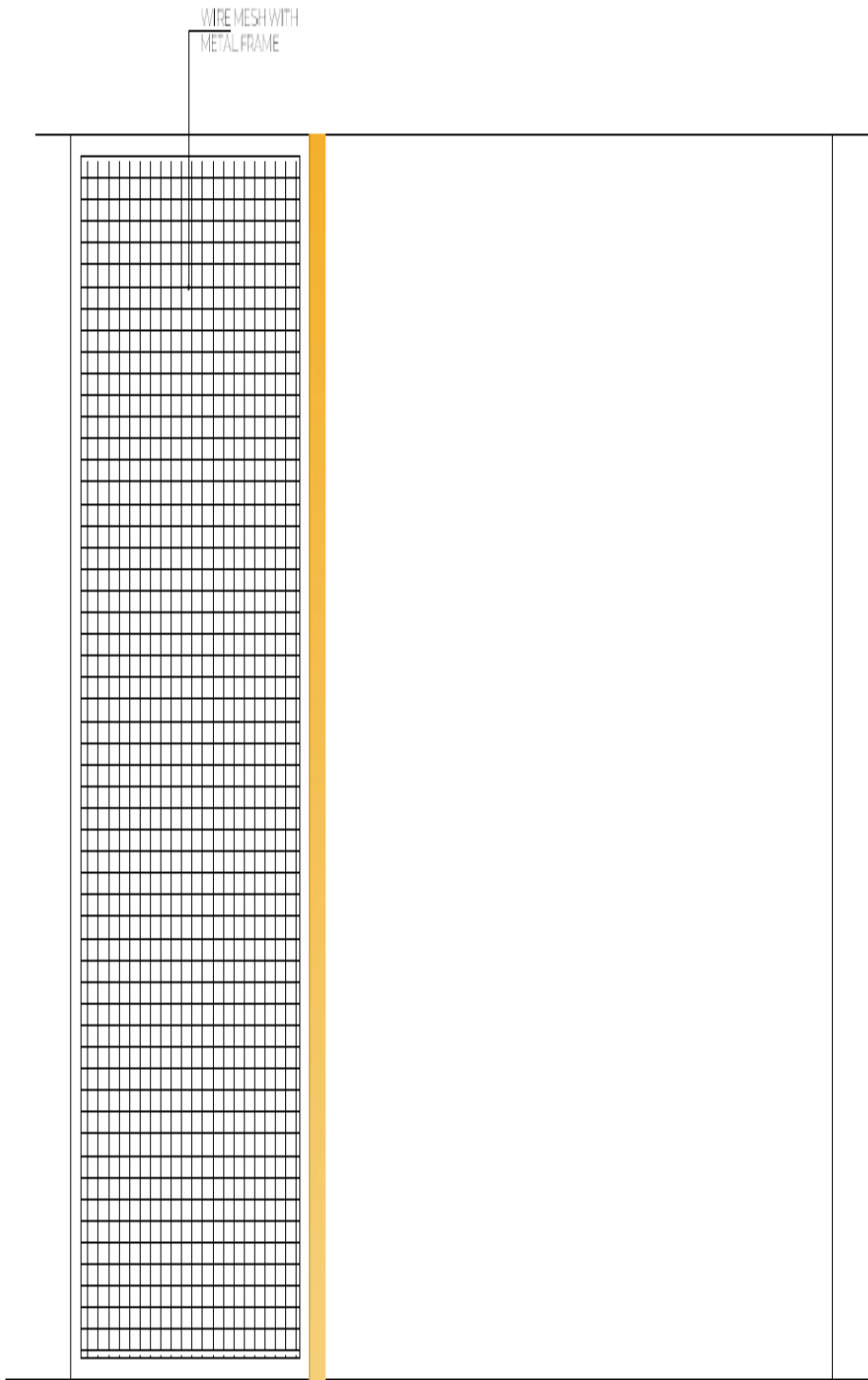
3'

3"

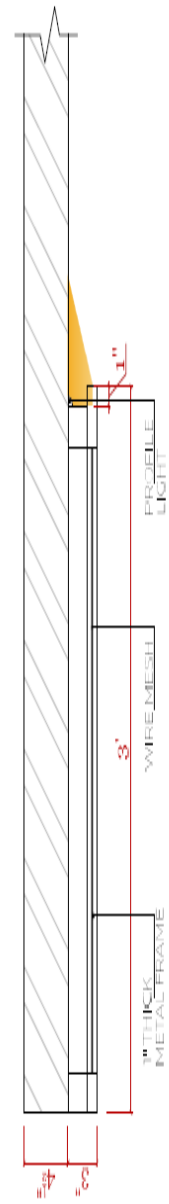
9'-6"

PPMC

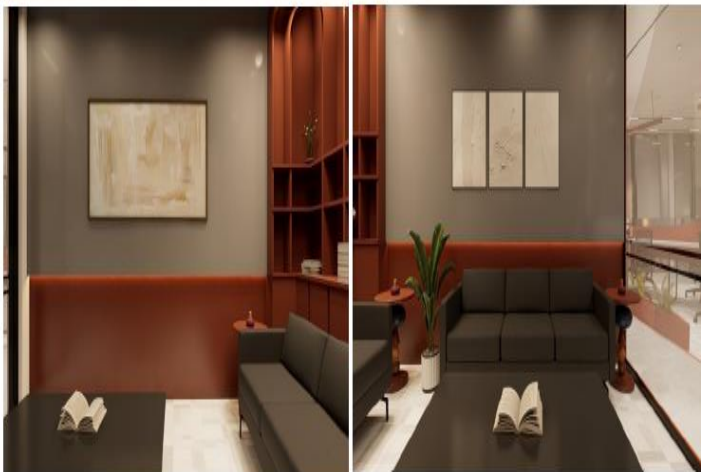
WALL ELEVATION-01



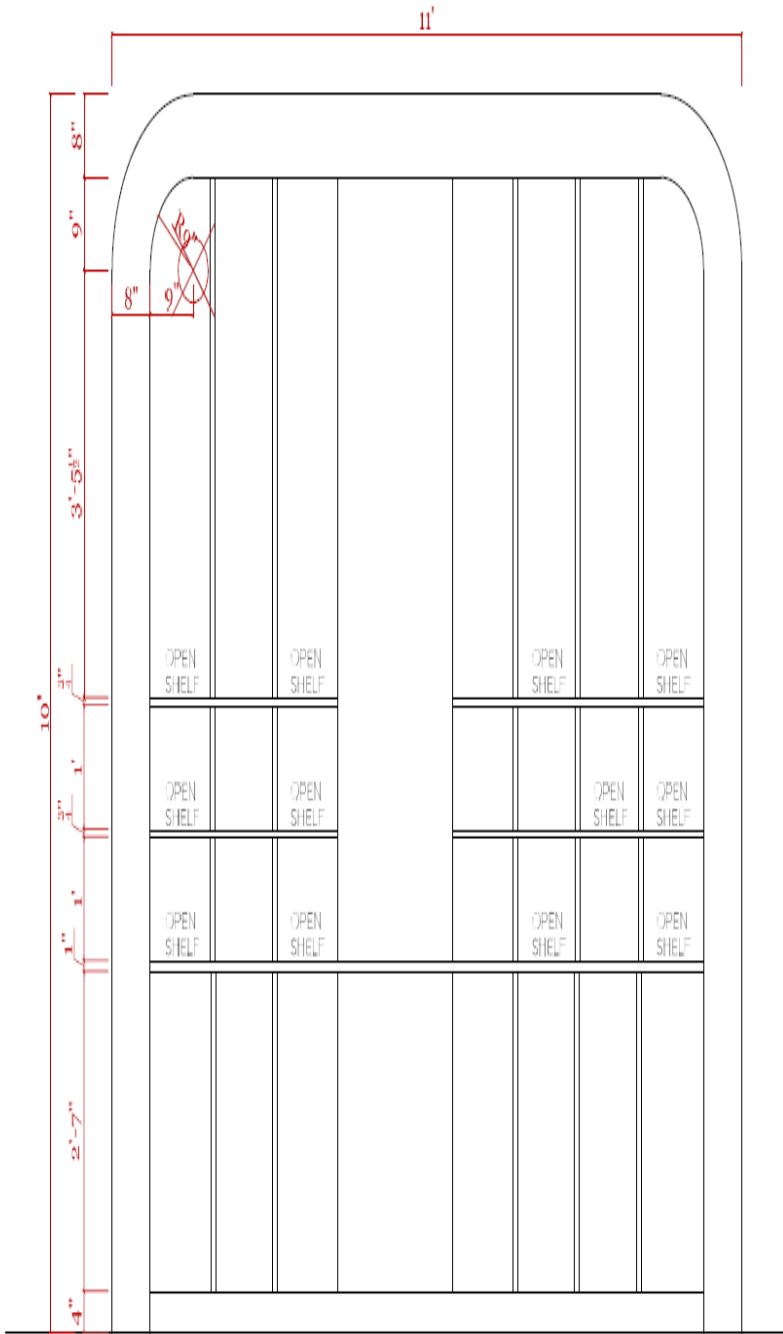
WALL ELEVATION-02



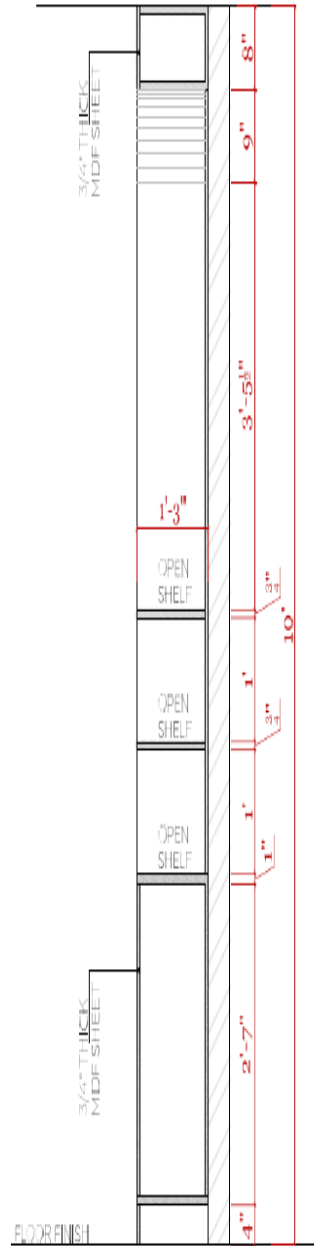
BLOWUP DETAIL



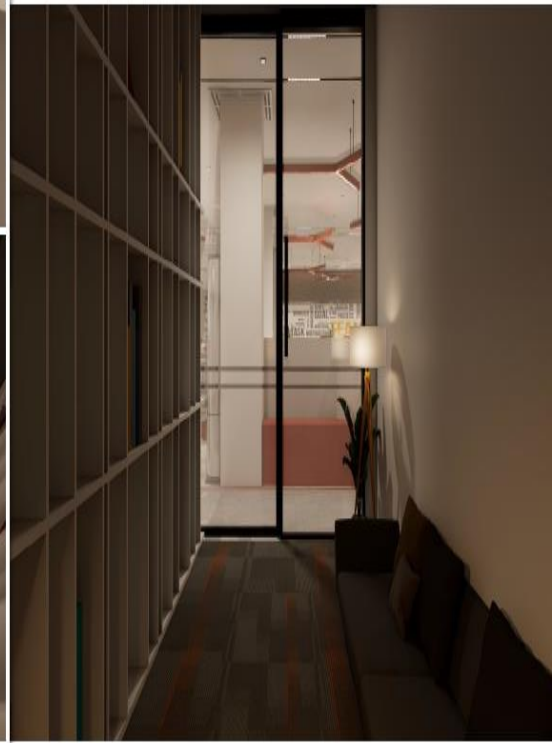
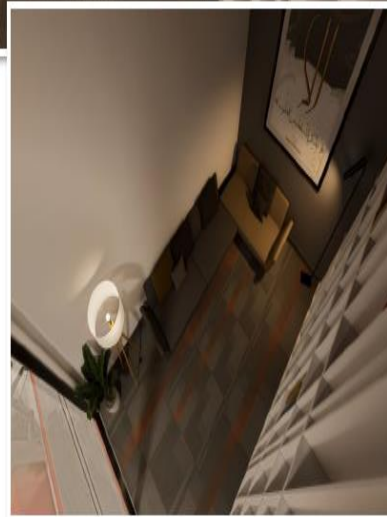
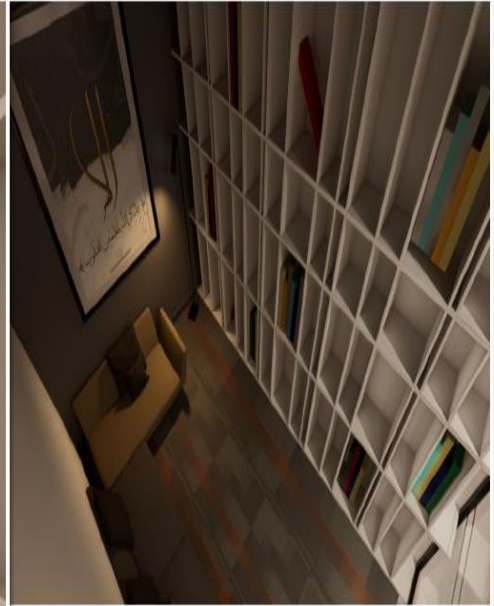
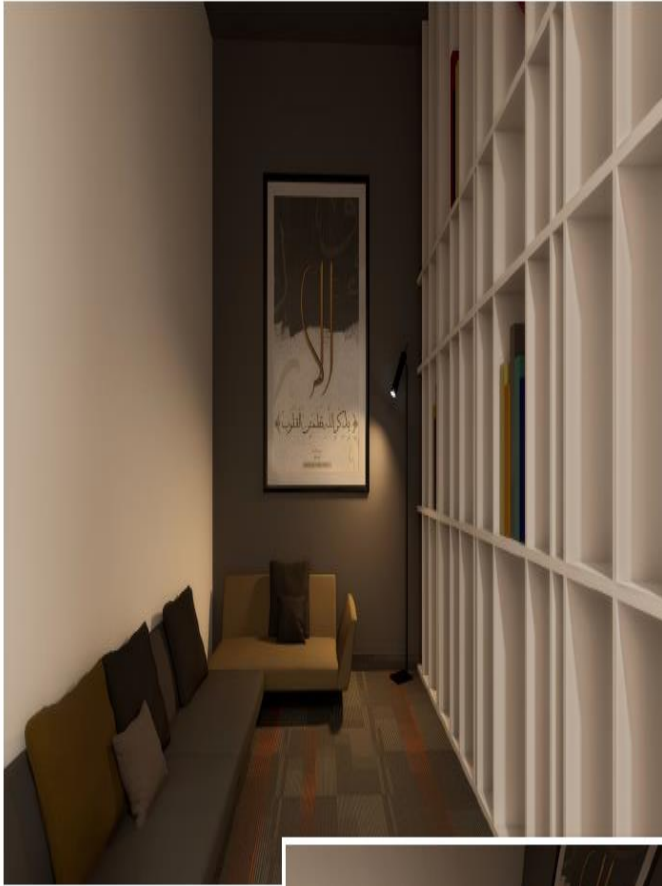
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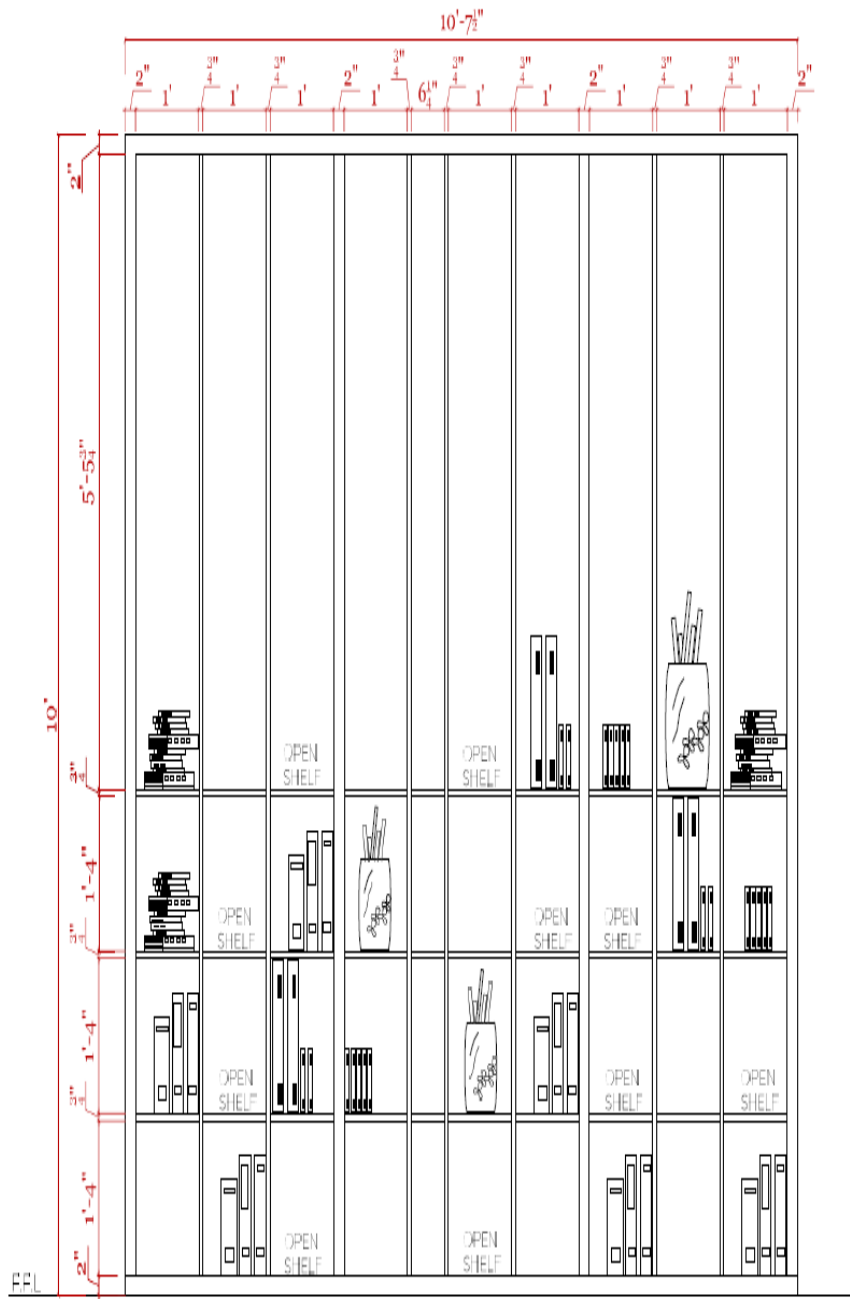
WALL ELEVATION-02



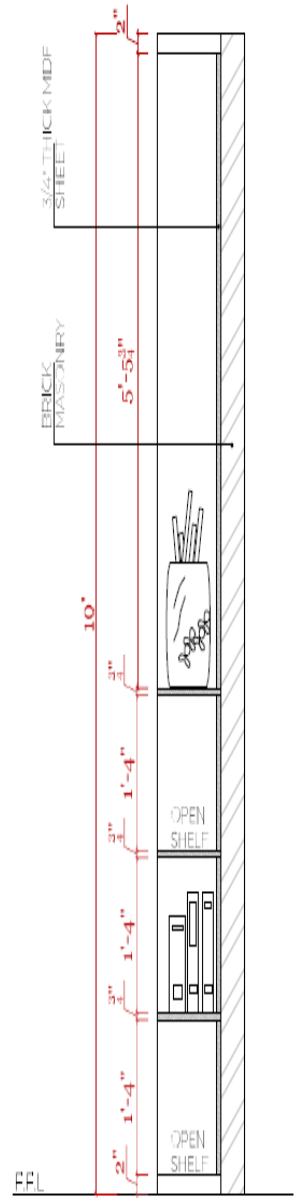
SECTION



LIBRARY



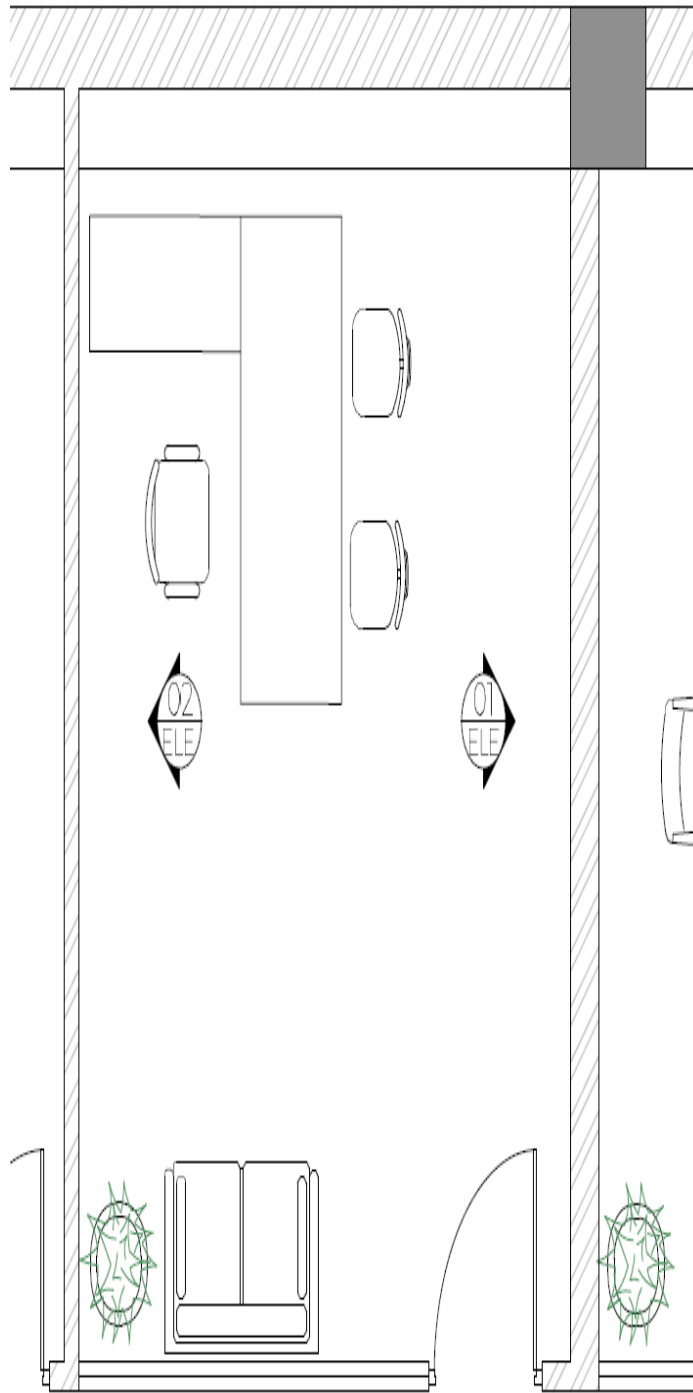
WALL ELEVATION-01

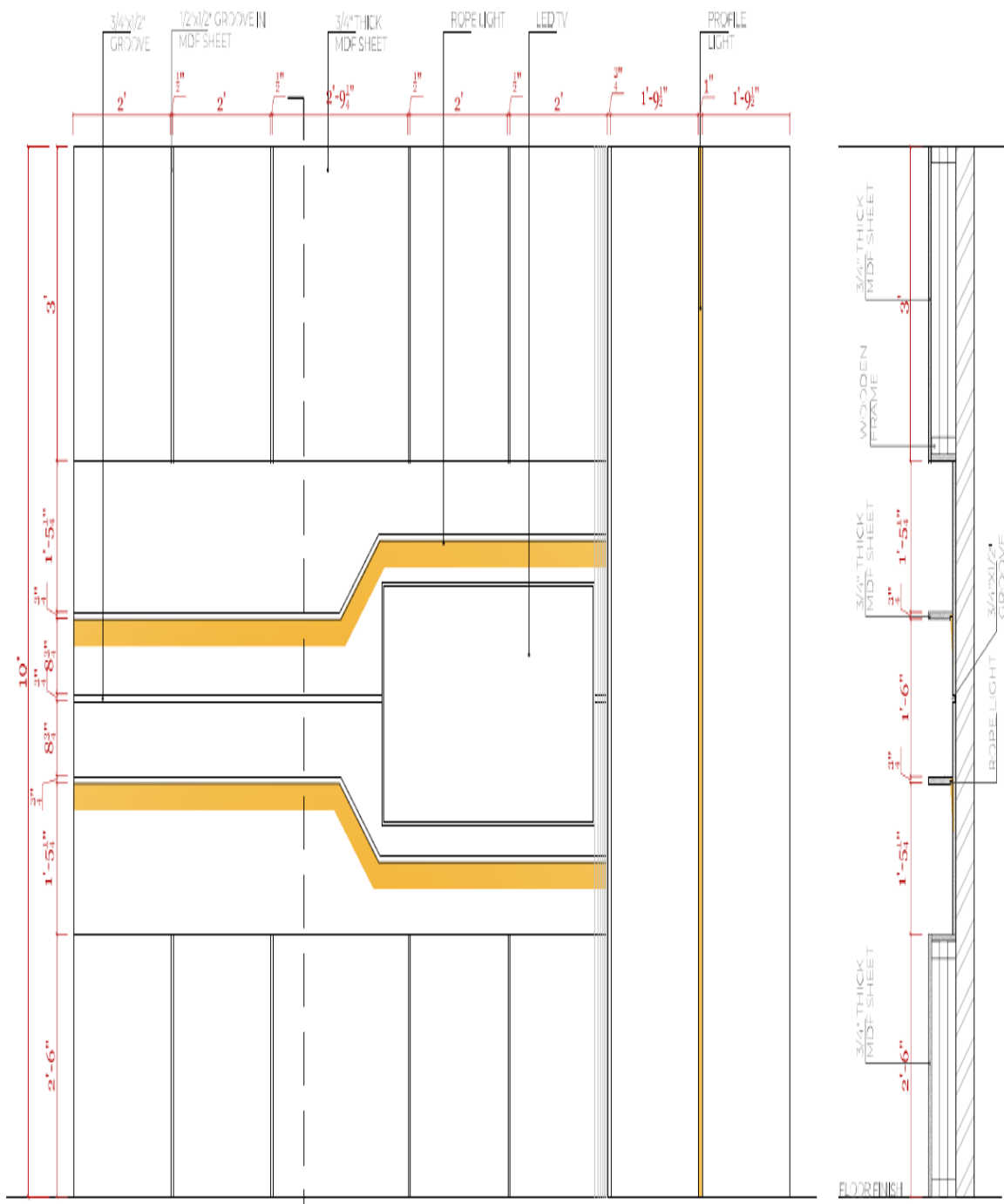


SECTION



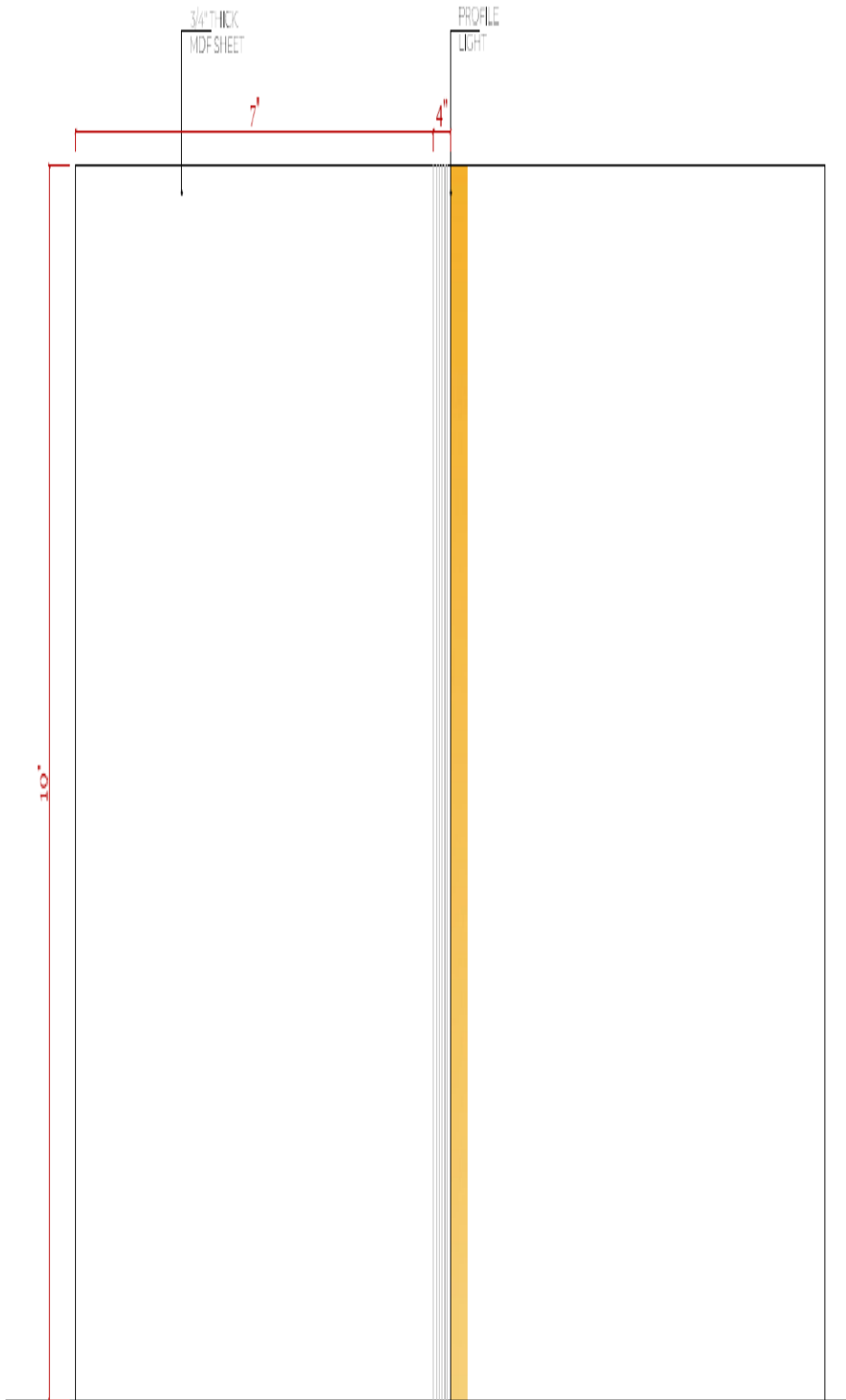
**EXECUTIVE
OFFICES**



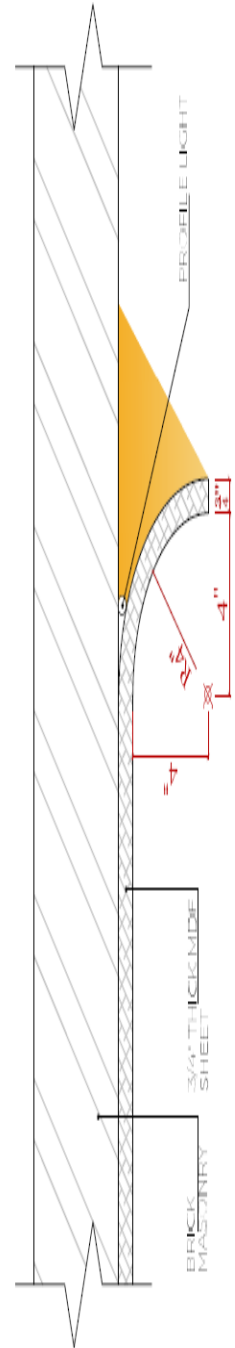


WALL ELEVATION -01

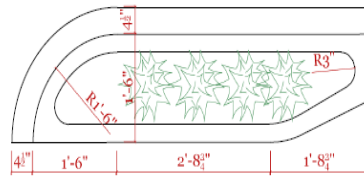
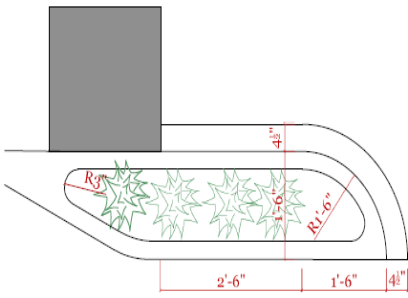
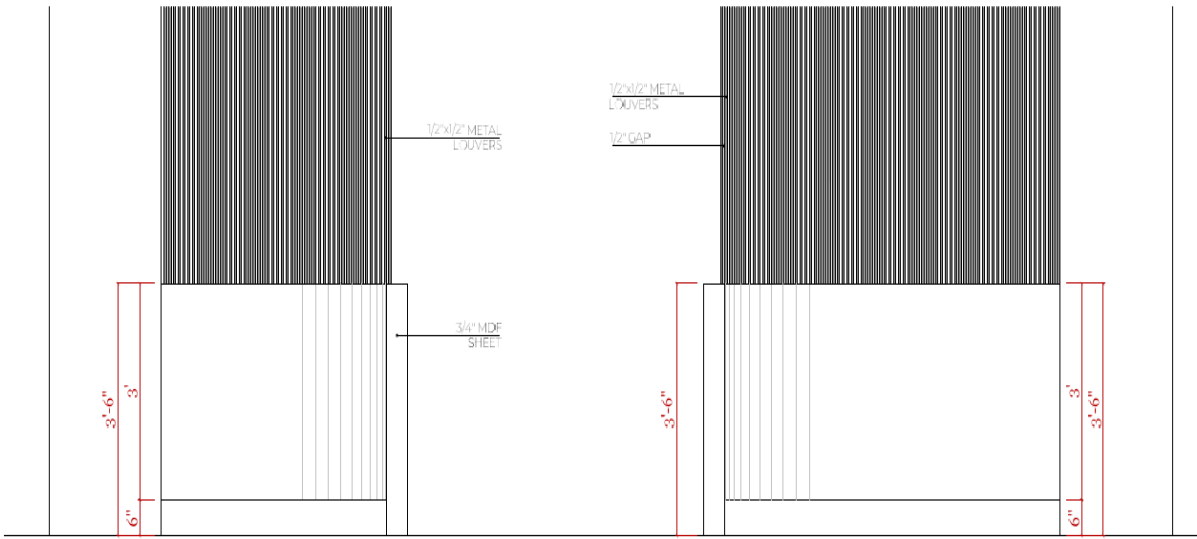
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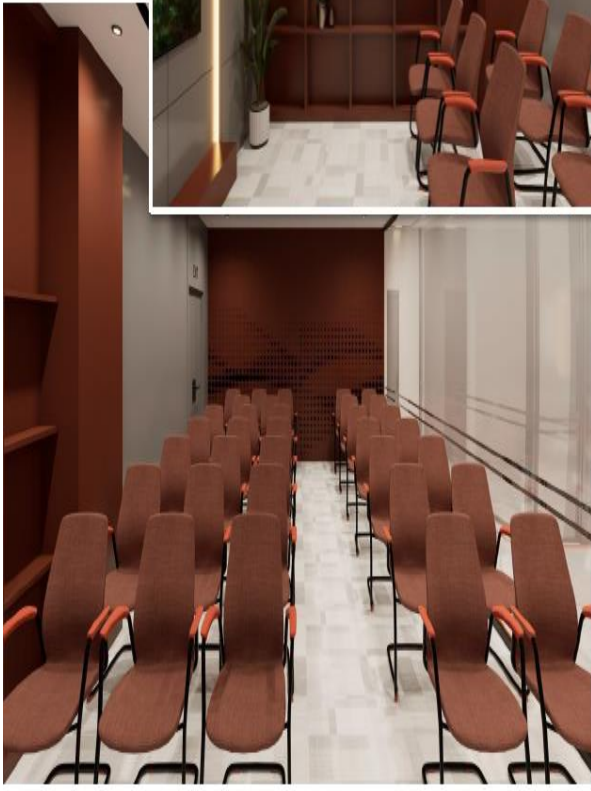
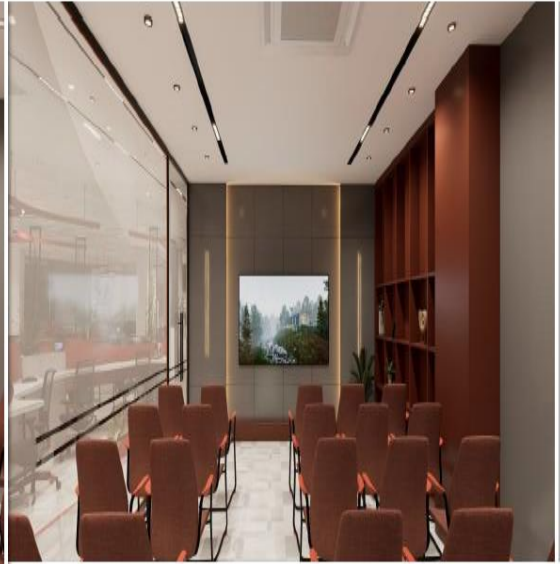
WALL ELEVATION -02



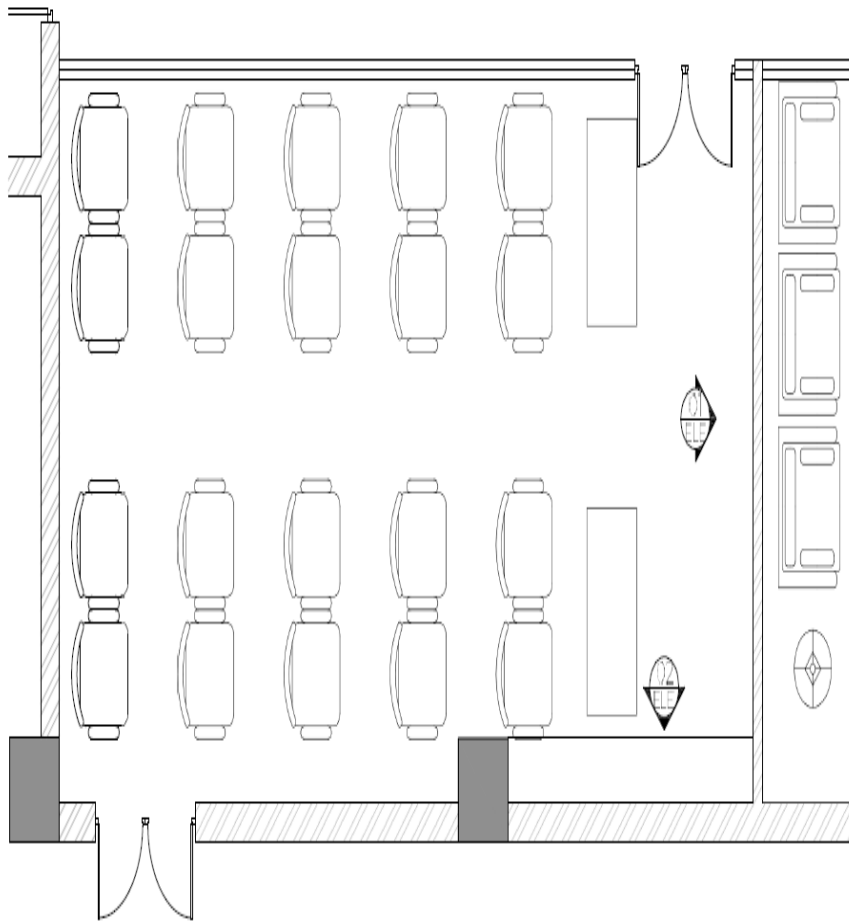
BLOWUP PLAN

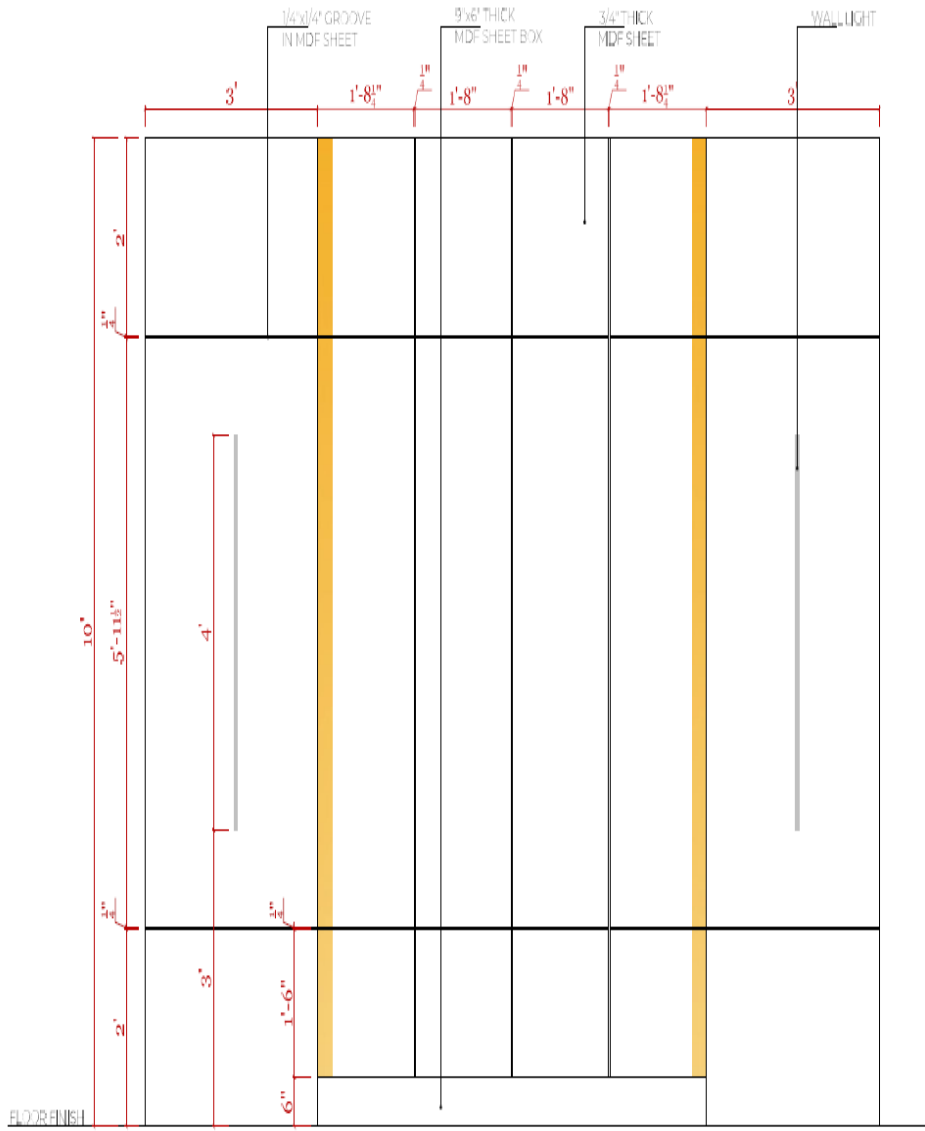


ELEVATION

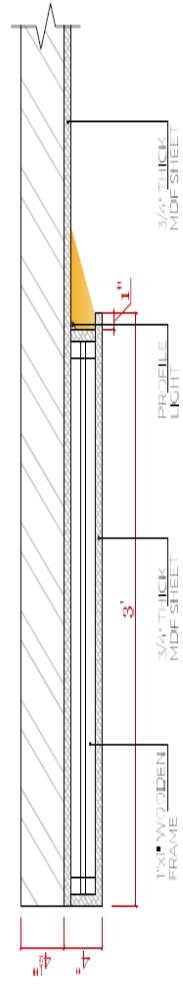


CENIMA HALL

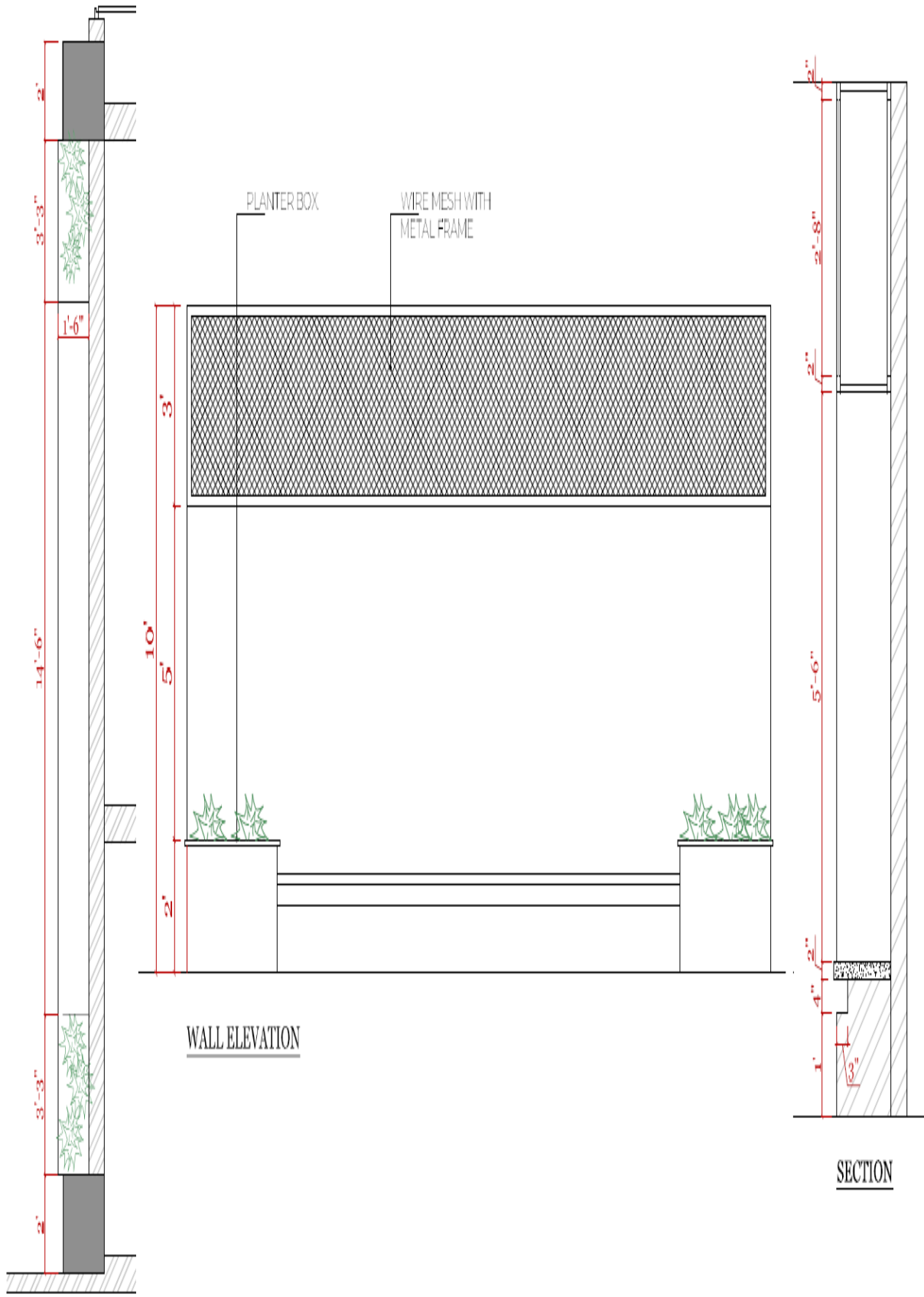




WALL ELEVATION -02



DETAIL PLAN



WALL ELEVATION

SECTION