Standard Bidding Document

Construction of 100m Shooting Range (Works)

National

Single Stage-Two Envelope

November 16, 2026

Gun & Country Club-Islamabad (Guns and Country Club-Islamabad),Secretary
Gun & Country Club near Pakistan Sports Board Complex, Islamabad, Islamabad Capital Territory
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REQUEST FOR BIDS

PROCUREMENT OF CIVIL WORKS

1. The **Gun & Country Club-Islamabad (Guns and Country Club-Islamabad)** has reserved Funds for the procurement planned for FY **2026-27**. The **Gun & Country Club-Islamabad (Guns and Country Club-Islamabad)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**Construction of 100m Shooting Range**" with the reference of **"P198969"**

2. The **Gun & Country Club-Islamabad (Guns and Country Club-Islamabad)** invites electronic Bids from eligible Bidders for procurement of Works **(Construction of 100m Shooting Range)** described in the bidding documents on **EPADS v2.0**.

3. **Single Stage-Two Envelope** will be used by adopting **Least Cost Based Selection (LCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2026 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority from time to time.

4. All Bids must be accompanied by a Bid Security amounting described in Bid Security Section in Bidding Document in the form of **Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft**. Or all bids must be accompanied by bid securing declaration in the format specified in the Bidding documents

5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **https://epads.gov.pk/opportunities/federal/procurements/198969** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding documents, must be submitted through **EPADS v2.0** on or before **Monday, November 30, 2026 02:00 PM**. E-bids will be opened by using **EPADS v2.0**

on the same day at **Monday, November 30, 2026 02:30 PM**. Manual submission of Bids shall not be entertained. Those vendor who have not yet registered on the new version of **EPADS v2.0**, may register themselves on **https://vendors.epads.gov.pk/**. A tutorial to explain the registration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc.**

In terms of Rules 65 of Public Procurement Rules, 2026 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at (**www.ppra.gov.pk**).

Gun & Country Club-Islamabad (Guns and Country Club-Islamabad), Secretary
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Instructions to Bidders

A. INTRODUCTION

1. **Scope of Bid**

1.1. The Procuring agency/Employer (PA), as indicated in the **Bid Data Sheet** (BDS) invites Bids for the execution of Works as specified in the BDS and **Section VI- Works Requirements**. The name, identification, and number of lots (contracts) of this National/ International Competitive Bidding process are specified in the BDS.

2. **Source of Funds**

2.1. Source of funds as referred in Clause 2 of Bid Data Sheet.

3. **Eligible Bidders**

3.1. A bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country, or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture or consortium. In the case of a joint venture or consortium, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture or consortium shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture or consortium during the Bidding process, and in case of award of contract, during the execution of contract. Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.

Any bid submitted by the joint venture shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any instructions issued by the Authority.

(The limit on the number of members of JV or Consortium may be prescribed

in BDS, in accordance with the guidelines issued by the KPPRA).

3.2. The invitation for bids is open to all prospective bidders subject to any provisions of incorporation or licensing by the respective national/ international incorporating agency or statutory body established for that particular trade or business. Procuring agencies shall specify the registration/licensing requirements for the foreign bidder keeping in view the requirement of that business.

3.3. A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidders may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:

3.3.1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring agency/Employer to provide consulting services for the preparation of design or technical specifications of the works that are the subject of the bid; or

3.3.2. have controlling shareholders in common; or

3.3.3. receive or have received any direct or indirect subsidy from any of them; or

3.3.4. have the same legal representative for purposes of this Bid; or

3.3.5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the Procuring agency/Employer regarding this Bidding process; or

3.3.6. Submit more than one bid in this bidding process.

3.4. A Bidder may be ineligible if –

3.4.1. he is declared bankrupt or, in the case of company or firm, insolvent;

3.4.2. payments in favor of the bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;

3.4.3. the bidder is convicted, by a final judgment of a Court of Law or relevant Professional Statuary Body, of any offence involving professional conduct;

3.4.4. The bidder is debarred/ blacklisted by a national level Procuring agency/Employer and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration.

3.5. As and when required, bidders shall provide to the Procuring agency/Employer evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

4. **Eligible Material and Equipment**

4.1. All the material and equipment to be mobilized under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such materials and equipment. For this purpose, ineligible countries are stated in the section-IV titled as “Eligible Countries”.

B. BIDDING DOCUMENTS

5. **Contents of Bidding Documents**

5.1. The scope of Works, bidding procedures, and terms and conditions of the contract are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents which should be read in conjunction with any addenda issued in accordance with ITB 7.1 include:

i. Section I Instructions to Bidders (ITBs)

ii. Section II Bid Data Sheet (BDS)

iii. Section III Evaluation and Qualification Criteria

iv. Section IV Bidding Forms

v. Section V Eligible Countries

vi. Section VI Works Requirements

vii. Section VII General Conditions of Contract (GC)

viii. Section VIII Particular Conditions of Contract (PC

ix. Section IX Contract Forms

5.2. The bidder is expected to examine all instructions, forms, specifications, terms and conditions prescribed in the bidding documents. Failure to furnish all the information required in the bidding documents will be at the bidder's risk and may result in the rejection of his bid.

6. **Clarification of Bidding Document, Pre-bid Meeting**

6.1. A prospective bidder requiring any clarification of the bidding document may notify the Procuring agency/Employer through **EPADS v2.0**.

6.2. The Procuring agency/Employer shall respond to the request for clarification in accordance with the Public Procurement Rules 2026, Rule No.38 i.e. **Clarifications of bids**.

6.3. Should the Procuring Agency deem it necessary to amend the BIDDING document as a result of a clarification, it shall do so following the procedure under **ITB 7**.

6.4. If indicated in the **BDS**, the bidder's designated representative is invited at the bidder's cost to attend a pre-bid meeting at the place, date and time mentioned in the BDS. During this pre-bid meeting, prospective bidders may request clarification of the schedule of requirement, the evaluation criteria or any other aspects of the bidding documents.

6.5. Minutes of the pre-bid meeting, if applicable, including the text of the questions asked by bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be uploaded on **EPADS v2.0**. Any modification to the bidding documents that may become necessary as a result of the pre-bid meeting shall be made by the Procuring agency/Employer exclusively through the use of an Addendum pursuant to **ITB 7**. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

6.6. The bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the bidder's own expense.

6.7. The bidder and any of its authorized personnel will be granted permission by the Procuring agency/Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder and its personnel will release and indemnify the Procuring agency/Employer 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 the inspection.

7. **Amendment of Bidding Documents**

7.1. The procuring agency may issue notification of any change, addition, modification or deletion in accordance with the PP Rules 2026, rule no. 34 i.e. **Bidding Documents**.

7.2. To give prospective bidders reasonable time in which to take an addendum/corrigendum into account in preparing their bids, the Procuring agency/Employer may, at its discretion, extend the deadline for the submission of bids:
Provided that the Procuring agency/Employer shall extend the deadline for submission of bid in pursuance of PP Rules 2026, rule no. 39 i.e. ***Extension of time for submission of bids****, if such an addendum is issued within last*

three (03) days of the bid submission deadline.

C. PREPARATION OF BIDS

8. Language of Bid

8.1. The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the Procuring agency/Employer shall be written in the English language unless specified in the **BDS**. Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless specified in the **BDS**, in which case, for purposes of interpretation of the bidder, the translation shall govern.

9. **Documents Comprising the Bids**

9.1. The Bid prepared by the Bidder shall constitute the following components: -

9.1.1. Documentary evidence established in accordance with ITB 9 that the material and equipment to be utilized by the Bidder for the executions of works are eligible material and equipment and conform to the Bidding Documents;

9.1.2. Documentary evidence established in accordance with ITB 10 that the Bidder has been authorized to carry out the Construction works;

9.1.3. Documentary evidence established in accordance with ITB 10 that the Bidder is eligible and/or qualified for the subject Bidding process;

9.1.4. Letter of Bid and Schedules and Bid Prices completed in accordance with ITB 11 and 12;

9.1.5. Completed schedules as required, including priced Bill of Quantities in accordance with ITB 11.

9.1.6. Technical Proposal completed in all aspects in accordance with ITB 14.

9.1.7. Bid security or Bid Securing Declaration furnished in accordance with ITB 16;

9.1.8. Any other Document required in the BDS.

9.2. In addition to the requirements, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement. Bids submitted by a joint venture of two (2) or more firms specified in Bidding Data, shall comply with the following requirements:

9.2.1. The bid, and in case of a successful bid, the Form of Contract Agreement shall be signed by all members so as to be legally binding on all partners;

9.2.2. 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;

9.2.3. For 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;

9.2.4. 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 Letter of Bid and in the Form of Contract Agreement (in case of a successful bid); and

9.2.5. 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 and corresponding duties & responsibilities of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments/modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.

9.3. The Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all material, equipment and works which the Bidder proposes to execute.

9.4. The documentary evidence of conformity of the material, equipment and works to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of:

9.4.1. a detailed description of the work methodology, approach, schedule and resources to be mobilized at site;

9.4.2. any other procurement specific documentation requirement as stated in the BDS.

9.5. The Bidder shall furnish in the Letter of Bid name(s) of the potential DAAB member(s) and attach their curriculum vitae. The list of potential DAAB member(s) proposed by the Employer (Contract Data 21.1) and by the Bidder (Letter of Bid) shall be subject to mutual review and agreement of the Parties in accordance with Sub-Clause 21.1 of the Conditions of Contract, and shall form the basis for the constitution of the DAAB in the event of Contract award.

10. **Documents Establishing Eligibility and Qualification of the Bidder**

10.1. The bidder shall furnish, as part of its bid, all those documents establishing the bidder’s eligibility to participate in the bidding process and/or its qualification to perform the contract if its bid is accepted.

10.2. The documentary evidence of the bidder’s eligibility to bid shall establish to the satisfaction of the Procuring agency/Employer that the bidder, at the time of submission of its bid, is from an eligible country as defined in Section-V titled as “Eligible Countries”.

10.3. The documentary evidence of the bidder’s qualification to perform the contract if its bid is accepted shall establish to the satisfaction of Procuring agency/Employer that:

10.3.1. The bidder has the financial and technical capability necessary to perform the Contract, meets the qualification criteria specified in Section-III, Evaluation and Qualification Criteria and **BDS**.

10.3.2. In the case of a bidder not doing business within Pakistan, the bidder is or will be (if awarded the contract) represented by a local bidder (Joint Venture) in accordance with the PEC works bylaws, and in case of award of works such foreign firm is required to participate in the execution of works to carry out its obligations as prescribed in the Conditions of Contract and /or Technical Specifications.

10.3.3. That the bidder meets the qualification criteria listed in Section-III, Evaluation and Qualification Criteria and **BDS**.

11. **Letter of Bid and Schedules**

11.1. The Bidder shall fill the Form of Bids furnished in the bidding documents. The Bids Form must be completed without any alterations to its format and no substitute shall be accepted.

12. **Bid Prices**

12.1. The bid prices quoted by the bidder in the Bidding Forms, Bill of Quantities and in the Price Schedule to Bid shall conform to the requirements specified below or exclusively mentioned hereafter in the

bidding documents.

12.2. The bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items in the Bill of Quantities and will not be paid for separately by the Procuring agency/Employer.

12.3. The Bid price to be quoted in the Form of Bid in accordance with ITB 11 shall be the total price of the bid

12.4. Unless otherwise specified in the BDS and the Contract, the rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract.

12.5. Unless otherwise specified in the **BDS** and the Contract, the rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract.

12.6. If so specified in ITB 1.1, bids may be invited for individual lots (contracts) or for any combination of lots (packages).

12.7. Prices quoted by the Bidder shall either be fixed or adjustable during the Bidder’s performance of the contract if specified in the BDS.

12.8. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date twenty-eight (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 the bidder.

13. **Currencies of Bid and Payment**

13.1. The unit rates and the prices shall be quoted by the Bidder entirely Pakistani 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 in Table III of Schedule-A to Bid the proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency

Requirements; in such case the unit rates and the prices shall be quoted by the Bidder in Equivalent Pakistani Rupees.Comparison of Bids and tie of Bid shall be treated in accordance with the PP rules 2026, rule no. 42.

14. **Documents Comprising the Technical Proposal**

14.1. The bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV– Bidding Forms, in sufficient detail to demonstrate the adequacy of the bidder’s proposal to meet the work requirements and the completion time.

15. **Bid Validity Period**

15.1. Bids shall remain valid for the period specified in the BDS after the bid submission deadline prescribed by the Procuring agency/Employer. A bid valid for a shorter period shall be rejected by the Procuring agency/Employer as non-responsive. The period of bid validity will be determined from the complementary bid securing instrument i.e. the expiry period of bid security or bid securing declaration as the case may be.

15.2. Under exceptional circumstances, prior to the expiration of the initial Bids/Bid validity period, the Procuring Agency may request the Bidders’ consent to an extension of the period of validity of their Bids/Bid. Such request for extension of the period of bid validity shall be carried out in accordance with the PP rules 2026, rule no. 37 i.e. Bid Validity.

16. **Bid Security or Bid Securing Declaration**

16.1. Pursuant to ITB 10.1 unless otherwise specified in the BDS, the bidder shall furnish as part of its bid, a Bid Security in accordance with the PP Rules 2026, rule no. 36 in the amount and currency specified in the BDS or Bid Securing Declaration as specified in the BDS in the format provided in Section IV (Bidding Forms).

In case Procuring agency/Employer is inviting bids in lots / packages, the bidder shall be required to submit his bid security against the respective lot/ package for which he is submitting his bid.

Until the development of functionality of auto verification of financial instrument in **EPADS v2.0**, the scanned copy of bid security or bid securing declaration, as the case may be, shall be uploaded on **EPADS v2.0** whereas the original instrument to be submitted to the procuring agency before closing of bid submission deadline, failing which shall result in rejection of Bid as non-responsive.

16.2. The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the BDS which shall be in any of the following:

16.2.1. A bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring agency/Employer and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the bidder;

16.2.2. A cashier’s or certified cheque; or

16.2.3. Another security as indicated in the **BDS**.

16.3. The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in Schedule to Bid or another form approved by the Procuring agency/Employer prior to the bid submission.

16.4. The Bid Security shall be payable promptly upon written demand by the Procuring agency/Employer in case any of the conditions listed in **ITB 16.9** are invoked.

16.5. Any bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with **ITB 16.1 or 16.3** shall be rejected by the Procuring agency/Employer and shall be declared as non-responsive bid, pursuant to **ITB 25**.

16.6. Unsuccessful bidders’ Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the Procuring

agency/Employer pursuant to **ITB 15**. The Procuring agency/Employer shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest:

16.6.1. The expiry of the Bid Security;

16.6.2. The entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Biding documents;

16.6.3. The rejection by the Procuring agency/Employer of all Bids;

16.6.4. The withdrawal of the bid prior to the deadline for the submission of bids, unless the biding documents stipulate that no such withdrawal is permitted.

16.7. The successful bidder's Bid Security will be discharged upon the bidder signing the contract pursuant to **ITB 38**, or furnishing the performance security (or guarantee), pursuant to **ITB 39**.

16.8. The Bid Security may be forfeited or the Bid Securing Declaration executed:
if a Bidder:

16.8.1. Withdraws its Bid during the period of Bid Validity as specified by the Procuring agency/Employer, and referred by the bidder on the Form of Bid except as provided for in ITB 15.2; or

16.8.2. In the case of a successful bidder, if the bidder fails:

16.8.2.1. to sign the contract in accordance with ITB 38; or

16.8.2.2. to furnish performance security (or guarantee) in accordance with ITB 39.

16.9. In case of Bid Security issued by the foreign bank is allowed by the Procuring agency/Employer, the same should be counter guaranteed by a corresponding bank in Pakistan. Furthermore, in case of joint venture, it

should be in the name of Joint venture to ensure joint responsibility. In case the JV is not legally constituted at the time of bid submission, the bid security or bid securing declaration shall be in the names of Joint Venture or Lead/either Firm of the JV or in ratio of shares of the individual JV partners, submitting the bid.

17. **Withdrawal of Bids**

17.1. The Bidder shall prepare and submit Bids through EPADS with due diligence after carefully reading all the terms and condition before Bid submission deadline.

D. SUBMISSION OF BIDS

20. **Submission of Bids**

20.1. All bids shall be submitted through **EPADS v2.0**.

21. **Deadline for Submission of Bids**

21.1. All bids shall be received through **EPADS v2.0** not later than bid submission deadline as specified in the **BDS**.

21.2. The Procuring agency/Employer may, under exceptional circumstances and at its discretion, extend the deadline for the submission of bids, pursuant to PP Rules 2026, rule no. 39 Extension of Time for submission of bid, by amending the Bidding Documents in accordance with ITB 7, in which case all rights and obligations of the Procuring agency/Employer and bidders previously subject to the deadline will thereafter be subject to the new deadline.

22. **Withdrawal, Substitution and Modification of Bids**

22.1. A bidder may substitute or modify his bid after it has been submitted, provided that written notice of the substitution or modification of the bid, is received by the Procuring agency/Employer prior to the deadline for submission of bids.

22.2. Revised bid may be submitted after the substitution or modification made in the original bid in accordance with ITB 20.1.

E. OPENING AND EVALUATION OF BIDS

23. **Opening of Bids**

23.1. The Procuring Agency will open bids in accordance with the PP rules 2026, rule no.40 as specified in the **BDS**.

24. **Confidentiality**

24.1. Information relating to the examination, clarification, evaluation and comparison of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report.

25. **Clarification of Bids**

25.1. Clarification of Bidding Documents shall be carried out in accordance with the PP Rules 2026, rule no. 38 i.e. Clarifications.

25.2. The alteration or modification in the bid which in any case affect the following parameters will be considered as a change in the substance of a bid:

25.2.1. evaluation & qualification criteria;

25.2.2. required scope of work;

25.2.3. contract price;

25.2.4. all securities requirements;

25.2.5. tax requirements;

25.2.6. terms and conditions of bidding documents.

25.2.7. change in the ranking of the bidder

26. **Preliminary Examination of Bids**

26.1. Prior to the detailed evaluation of bids, the Procuring agency/Employer will determine whether each bid:

26.1.1. has been prepared as per the format and contents defined by the Procuring agency/Employer in the bidding documents;

26.1.2. has been properly signed;

26.1.3. is accompanied by the required securities; and

26.1.4. is substantially responsive to the requirements of the bidding documents.
The Procuring agency/Employer's determination of a bid's substantial responsiveness will be based on the contents of the bid itself.

26.2. A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one that: -

26.2.1. affects in any substantial way the scope, quality, or performance of the Works;

26.2.2. limits in any substantial way, inconsistent with the bidding documents, the Procuring agency/Employer's rights or the bidders' obligations under the Contract; or

26.2.3. if rectified, would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

26.3. The Procuring agency/Employer will confirm that the documents and information specified under ITB 9, 10 and 11 have been provided in the bid. If any of these documents or information is missing, or is not provided in accordance with the Instructions to Bidders, the bid shall be rejected.

26.4. The Procuring agency/Employer may waive-off any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

Explanation: A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the works. The Procuring agency/Employer either shall give the bidder an opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the Procuring agency/Employer. Examples of minor informalities or irregularities include failure of a bidder to –

26.4.1. Submit the number of copies of signed bids required by the invitation;

26.4.2. Furnish required information concerning the number of its employees;

26.4.3. the firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.

26.5. Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer may request the bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the bidder to comply with the request may result in the rejection of its bid.

26.6. Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer shall rectify quantifiable nonmaterial nonconformities or omissions related to the Financial Proposal. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or nonconforming item or component.

26.7. If a bid is not substantially responsive, it will be rejected by the Procuring agency/Employer and may not subsequently be evaluated for complete technical responsiveness.

27. **Examination of Terms and Conditions; Technical Evaluation**

27.1. The Procuring agency/Employer shall examine the bid to confirm that all terms and conditions specified in the GC and the PC have been accepted by the bidder without any material deviation or reservation.
For this purpose:
"**Deviation**" means departure from the requirements specified in the Bidding Document.
"**Reservation**" means setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document.

27.2. The Procuring agency/Employer shall evaluate the technical aspects of the bid submitted in accordance with ITB 28, to confirm that all requirements specified in Section VI – Works Requirement, Technical Specifications of the Bidding Documents have been met without material deviation or reservation.

27.3. If after the examination of the terms and conditions and the technical evaluation, the Procuring agency/Employer determines that the bid is not substantially responsive in accordance with ITB 25, it shall reject the bid.

28. **Correction of Arithmetic Errors**

28.1. Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

28.1.1. if there is a discrepancy between unit prices and the sub-total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the sub-total price shall be corrected, unless in the opinion of the Procuring agency/Employer there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;

28.1.2. if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail, and the total shall be corrected; and

28.1.3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

28.1.4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

28.2. The amount stated in the Bid will, be rectified by the Procuring agency/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 amount, its bid shall be rejected after forfeiture of Bid Security or execution of the Bid Securing Declaration, as the case may be, in accordance with ITB 39.3.

29. **Conversion to Single Currency**

29.1.
Comparison of bids quoted in different currencies and conversion of bids into a single curre
rule no. 42(2) as specified in the BDS.

30. **Evaluation of Bids**

30.1. The Procuring agency/Employer shall evaluate and compare only the bids determined to be substantially responsive, pursuant to ITB 25.

30.2. In evaluating the Technical Proposal of each Bid, the Procuring agency/Employer shall use the criteria and methodologies listed in the BDS and in terms of works requirement. No other evaluation criteria or methodologies shall be permitted.

30.3. The Procuring agency/Employer’s evaluation of a bid will take into account:

30.3.1. the bid price, excluding provisional sums and the provision, if any, for contingencies in the summary bill of quantities, but including day work items, where priced competitively;

30.3.2. converting the amount resulting from applying above, if relevant, to a single currency in accordance with ITB 27;

30.4. 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.

30.5. If these bidding documents allow bidders to quote separate prices for different lots, and the award to a single bidder of multiple lots, the methodology of evaluation to determine the lowest evaluated lot combinations in the Form of Bid, is specified in the BDS.

30.6. If the bid, which results in the Evaluated Bid Price (Successful Bid), is seriously unbalanced or front loaded in the opinion of the Employer, 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, taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

Explanation:

“Unbalanced” or “front-loaded” bids consist of deliberately submitting bids with artificially high prices or unit rates for the early stages of a construction project, offset by artificially low prices or unit rates for the later stages of the project, to improve the contractor’s cash flow.

31. **Domestic Preference**

31.1. If the BDS so specifies, the Procuring agency/Employer will grant a margin of preference to the domestic contractor in line with the rules, regulations, regulatory guides or instructions issued by the Authority from

time to time.

32. **Determination of Successful Bid**

32.1. The Procuring agency/Employer shall compare the evaluated bids in accordance with the predefined bidding procedure, of all substantially responsive bids to determine the Successful bidder.

33. **Qualification of Bidder**

33.1. The Procuring agency/Employer shall determine to its satisfaction whether the bidder is substantially responsive and whose bid is declared as Successful bid either continues to meet (if prequalification applies) or meets (if post-qualification applies) the qualifying criteria specified in Evaluation and Qualification Criteria.
Note: In case of international bidding, the parameters for incorporation or licensing within Pakistan may be fulfilled as part of post qualification.

33.2. The determination shall be based upon an examination of the documentary evidence of the bidder’s qualifications submitted by the bidder, pursuant to ITB 10.

33.3. Prior to contract award, the Procuring agency/Employer will verify that the successful bidder (including each member of a JV) is not blacklisted/debarred. The Procuring agency/Employer will conduct the same verification for each sub-contractor proposed by the successful bidder.

34. **Sub-Contractors**

34.1. The bidder shall provide details regarding any specialized sub-contractor to the Procuring agency/Employer. In case change of sub-contractors, the bidder shall promptly notify the Procuring agency/Employer and obtain approval for replacement of sub-contractors.

34.2. Bidders may propose sub-contracting up to the percentage of total value of contracts or the volume of works as specified in the BDS.

35. **Abnormally Low Financial Bid**

35.1. A procuring Agency may reject abnormally low bids in accordance with the PP Rules 2026, rule no. 43. The decision of the Procuring agency/Employer to reject a bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the bidder concerned. Moreover, the Procuring agency/Employer shall not incur any liability solely by rejecting abnormally bid

Guidance for Procuring agency/Employer:

An abnormally low Bid means, a Bid containing Bid price that is less or lesser than twenty five percent (25%) of the Procuring agency/Employer's estimate.

35.2. The Procuring agency/Employer will determine to its satisfaction whether the bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB 10.

35.3. The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to ITB 10, as well as such other information as the Procuring agency/Employer deems necessary and appropriate. Factors not included in these bidding documents shall not be used in the evaluation of the bidders' qualifications.

35.4. Procuring agency/Employer may seek "Certificate for Independent Price Determination" from the bidder and the results of reference checks may be used in determining award of contract.

Explanation: *The Certificate shall be furnished by the bidder. The bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.*

35.5. An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidder's bid, in which event the Procuring agency/Employer will proceed to the next ranked bidder to make a similar determination of that bidder's capabilities to perform satisfactorily.

F. AWARD OF CONTRACT

36. **Criteria of Award**

36.1. Subject to ITB 34 and 35, the Procuring agency/Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has been declared as Successful Bidder, provided that such bidder has been determined to be:

36.1.1. eligible in accordance with the provisions of ITB 3;

36.1.2. is determined to be qualified to perform the Contract satisfactorily; and

36.1.3. Successful negotiations have been concluded, if any.

37. **Negotiations**

37.1. The Committee of the Procuring agency/Employer may negotiate with the Successful Bidder in accordance with PP Rules 2026 rule no. 26(3).

38. **Procuring agency/Employer's Right to reject All Bids**

38.1. The procuring agency has the right to reject all bids in accordance with the PP Rules 2026, rule no. 45 However, the Authority (i.e. PPRA) may call from the Procuring agency/Employer the justification of those grounds.

39. **Notification of Award**

39.1. The procuring agency shall announce and publish the evaluation result in accordance with the PP Rules 2026, rule no 48.

39.2. Where no complaints have been lodged, the bidder whose bid has been accepted will be notified of the award by the Procuring agency/Employer prior to expiration of the bid validity period through EPADS. However, the Procuring agency/Employer shall not award any procurement contract at least for five (05) days after the announcement of

final evaluation report. The notification letter (herein after and in the condition of the contract and contract form called “Letter of Acceptance” will specify the sum that the Procuring agency/Employer will pay the successful bidder in consideration for the execution and completion of the works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

39.3. The notification of award will constitute the formation of the Contract, subject to the bidder furnishing the Performance Security (or guarantee) in accordance with ITB 39 and signing of the contract in accordance with ITB 38.

39.4. Upon the successful bidder’s furnishing of the performance security (or guarantee) pursuant to ITB 39, the Procuring agency/Employer will promptly notify each unsuccessful bidder, the name of the successful bidder and the Contract amount and will discharge the Bid Security or Bid Securing Declaration of the bidder(s) pursuant to ITB 16.

40. **Signing of Contract**

40.1. Promptly after notification of award, Procuring agency/Employer shall send the successful bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.

40.2. Immediately after the Redressal of grievance by the GRC, and after fulfillment of all conditions precedent of the Contract Form, the successful bidder and the Procuring agency/Employer shall sign the contract.

40.3. Where no formal signing of a contract is required, work order issued to the bidder shall be construed to be the contract.

41. **Performance Security (or Guarantee)**

41.1. After the receipt of the Letter of Acceptance, the successful bidder, within the specified time, shall deliver to the Procuring agency/Employer a Performance Guarantee in the amount and in the form stipulated in the BDS and PC, denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.

41.2. If the Performance Guarantee is provided by the successful bidder and it shall be in the form specified in the BDS which shall be in any of the following:

41.2.1. certified cheque, cashier’s or manager’s cheque, or bank draft;

41.2.2. irrevocable letter of credit issued by a scheduled bank of Pakistan or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a scheduled bank of Pakistan;

41.2.3. bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign bidder, bonded by a foreign bank; or

41.2.4. surety bond callable upon demand issued by any reputable surety or insurance company.
Any Performance Guarantee submitted shall be enforceable in Pakistan.

41.3. Failure of the Most Advantageous Bidder to comply with the requirement of ITB 40 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or declare blacklisted (in case bid securing declaration is submitted) in which event the Procuring agency/Employer may make the award to the next most advantageous bidder or reinitiate the procurement process afresh (as a case may be).

42. **Advance Payment**

42.1. Advance payment will be provided to the bidder in percentage and in the manner as agreed by the both parties in terms of Conditions of the Contract.

42.2. The Procuring agency/Employer will provide an advance payment as stipulated in the Conditions of Contract, subject to a maximum amount, as stated and/or Conditions of the Contract. The advance payment request shall be accompanied by an advance payment security (guarantee) in the form provided in Section X. For the purpose of receiving the advance payment, the bidder shall make and estimate of, and include in its bid, the expenses that will relate to the purchase of equipment, machinery, materials, and on the engagement of labor during the first month beginning

with the date of the Procuring agency/Employer's "Notice to Commence" as specified in the PCC.

43. **General Performance of the Bidders**

43.1. The Procuring agency/Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts / works. The Procuring agency/Employer may seek information / report from the previous employer for consideration. However, the Procuring agency/Employer shall incorporate such parameters in the evaluation criteria and accordingly decide the fate of the bid submitted.

44. **Corrupt & Fraudulent Practices**

44.1. Procuring agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid to engage in any corrupt and fraudulent practices.

G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

45. Grievance Redressal

45.1. Grievance Redressal shall be carried out in accordance with the KPPRA, rules i.e. Redressal of grievances by the procuring agency and "Redressal of Grievances Regulations".

H. MECHANISM OF BLACKLISTING

46. Mechanism of Blacklisting

46.1. The Procuring agency/Employer shall proceed Blacklisting of Bidders/Contractors in accordance with PP Rules 2026, rule no. 65 rule i.e. Blacklisting and "Blacklisting and Debarment of Bidders or Contractors.

Bid Data Sheet

Bid Data Sheet (BDS)

The following specific data for the procurement of works shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITBs). Whenever there is a conflict, the provisions herein shall prevail over those in ITBs.

A. Introduction

ITB Number
Amendments of, and Supplements to, Clauses in the Instruction to Bidders

ITB Number1.1

Name of Procuring agency/Employer: **Gun & Country Club-Islamabad (Guns and Country Club-Islamabad)**

The subject of procurement is: **Construction of 100m Shooting Range**

Period for completion of the works **365 Days**

Commencement date execution of the works: **15 Days**

Type of Procurement**:Local**

ITB Number2.1

Financial year for the operations of the Procuring agency/Employer: **2026-27**
Name of Project [insert: name and summary description of the Project if any]

Name of financing institution: [insert: name if any]

Name and identification number of the Contract: **P198969**

ITB Number3.1

JV/Consortium or Association Allowed: **No**

Maximum number of members in the joint venture shall be: **Nil**.

B. Bidding Documents

ITB Number6.4

The Bidders may seek clarifications through **EPADS v2.0**: **Last Clarification Date: Friday, November 27, 2026**
Pre-Bid Meeting: Saturday, November 21, 2026 04:00 PM

C. Preparation of Bids

ITB Number8.1

The Language of all correspondences and documents related to the Bid is: **English**

ITB Number 5.1 & 9.1

The following documentsmust be includedto constitute the Bid

No

ITB Number9.4 (b)

Other procurement specific documentation requirements are:

As per bidding documents

ITB Number12.4

The Bid price will be/will not be subject to the price adjustment **Nil**.

ITB Number12.6

The Bid price shall be adjusted in accordance with Schedule-A to Bid – “Schedule of Adjustment Data” if available.

ITB Number13.1

Bidders to quote entirely in**Pak rupees (PKR)**

ITB Number15.1

The Bid Validity period shall be **180 Days** days.

ITB Number16.1

The amount of Bid Security shall be (insert amount)

The currency of the Bid Security shall be: **PKR**.

ITB Number16.2

The Bid Security shall be in the form of:**Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft**

D. Submission of Bids

ITB Number19.1

The deadline for Bid submission is:**Monday, November 30, 2026 02:00 PM**
Address for submission of Original Bid Security:**Gun & Country Club near Pakistan Sports Board Complex, Islamabad, Islamabad Capital Territory**

ITB Number21.1
The Bid opening shall take place at:**EPADS v2.0**
Day : ***Monday***
Date: ***November 30, 2026***
Time : ***02:30 PM***

ITB Number27.1
The currency that shall be used for Bid evaluation and comparison purposes to convert all Bid prices expressed in various currencies is: **PKR Only**
The source of exchange rate shall be: **Nil**
The date of exchange rate shall be: **Nil**

ITB Number28.2 &28.5
Least Cost Based Selection (LCBS)
see Evaluation Criteria

ITB Number29.1
Domestic preference to apply.
Domestic preference:**No**
Preference to domestic or national suppliers or contractors shall be provided in accordance with policies of the Federal Government and/or in accordance with the regulations issued by the Authority.
If Yes, The percentage for the domestic preference alongwith calculation formula is provided in the evaluation and qualification criteria.

ITB Number32.2
Sub-contracting is allowed? : **No**

No% of the total value of the contract.

39.1 The Performance Security (or guarantee) shall be **10.00%**
39.2 The Performance Security (or guarantee) shall be in the form of:**Pay Order,Banker's Cheque,Call at Deposit,Bank Guarantee,Demand Draft**

Eligibility Criteria

All Active Taxpayers shall be eligible to participate in the procurement process, unless expressly excluded or otherwise restricted under the Eligibility Criteria specified by the Procuring Agency.

Required Registration
NADRA CITIZENSHIP (CNIC/NICOP) FBR (NTN) FBR (GSTN) PEC

Eligibility Criteria	Document
No conflicts of interest in accordance with ITB 3.7	Yes
Category C-4 or above and at least in Specialization Codes: CE-09, CE-10 & EE-04	Yes
History of Non Performing Contracts Non-performance of a contract did not occur as a result of contractor default for last 15 years. Form CON-2	Yes
Pending Litigation Bidder’s financial position and prospective long-term profitability sound according to criteria established in Financial Capabilities below and assuming that all pending litigation will be resolved against the Bidder Form CON-2	Yes
Litigation History No consistent history of court/ arbitral award decisions against the Bidder since 1st January 2011. Form CON-2	Yes

No- Blacklisting Bidder has never been blacklisted Affidavit on Stamp Paper prepared within the current month of submission of bidding document that the firm has never been blacklisted	Yes
Active Status of Income Tax and Sales Tax on FBR	Yes

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Evaluation Criteria

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %
100

Technical Marks	**100**
Passing Marks	**50**
Technical Evaluation Criteria	

Specific Building Experience – Completed Projects (Quantitative)(Doc Required) 10 marks will be awarded for each completed project having project cost ≥ Rs. 100M up to maximum of 20 marks 07 marks will be awarded for each completed project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 20 marks 05 marks will be awarded for each completed project having project cost from Rs. 60M to 79.99M up to maximum of 20 marks. No marks will be awarded for project having project cost < Rs. 60M. Form. EXP – 4.2 (a) i. The applicants must provide Letter of Award and Taking Over/ Completion Certificate of completed projects. No marks will be given to the projects for which above certificates are not provided. ii. Applicant shall provide complete information of the projects including scope, cost and covered area etc. Proportionate marks on the basis of share in JV agreement will be awarded to each partner, for projects executed as Joint Venture (JV). **(20)** 10 marks will be awarded for each completed project having project cost ≥ Rs. 100M up to maximum of 20 marks 07 marks will be awarded for each completed project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 20 marks 05 marks will be awarded for each completed project having project cost from Rs. 60M to 79.99M up to maximum of 20 marks. No marks will be awarded for project having project cost < Rs. 60M. Form. EXP – 4.2 (a) i. The applicants must provide Letter of Award and Taking Over/ Completion Certificate of completed projects. No marks will be given to the projects for which above certificates are not provided. ii. Applicant shall provide complete information of the projects including scope, cost and covered area etc. Proportionate marks on the basis of share in JV agreement will be awarded to each partner, for projects executed as Joint Venture (JV). **(17)** 10 marks will be awarded for each completed project having project cost ≥ Rs. 100M up to maximum of 20 marks 07 marks will be awarded for each completed project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 20 marks 05 marks will be awarded for each completed project having project cost from Rs. 60M to 79.99M up to maximum of 20 marks. No marks will be awarded for project having project cost < Rs. 60M. Form. EXP – 4.2 (a) i. The applicants must provide Letter of Award and Taking Over/ Completion Certificate of completed projects. No marks will be given to the projects for which above certificates are not provided. ii. Applicant shall provide complete information of the projects including scope, cost and covered area etc. Proportionate marks on the basis of share in JV agreement will be awarded to each partner, for projects executed as Joint Venture (JV). **(15)** 10 marks will be awarded for each completed project having project cost ≥ Rs. 100M up to maximum of 20 marks 07 marks will be awarded for each completed project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 20 marks 05 marks will be awarded for each completed project having project cost from Rs. 60M to 79.99M up to maximum of 20 marks. No marks will be awarded for project having project cost < Rs. 60M. Form. EXP – 4.2 (a) i. The applicants must provide Letter of Award and Taking Over/ Completion Certificate of completed projects. No marks will be given to	20

Specific Building Experience – In-hand Projects Experience as constructor in execution of Building Works Projects of similar nature and volume currently in-hand. (Quantitative)(Doc Required) 08 marks will be awarded for each in-hand project having project cost ≥ Rs. 100M up to maximum of 16 marks • 06 marks will be awarded for each in-hand project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 16 marks. 04 marks will be awarded for each in-hand project having project cost from Rs. 60M to Rs. 79.99M up to maximum of 16 marks. • No marks will be awarded for project having project cost < Rs. 60M. Form. EXP – 4.2 (b) i. The applicants must provide Award Letter of in-hand projects. No marks will be given to the projects for which above certificate is not provided. ii. Applicant shall provide complete information of the projects including scope, cost and covered area etc. iii. Proportionate marks on the basis of share in JV agreement will be awarded to each partner, for projects executed as Joint Venture (JV). **(16)** 08 marks will be awarded for each in-hand project having project cost ≥ Rs. 100M up to maximum of 16 marks • 06 marks will be awarded for each in-hand project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 16 marks. 04 marks will be awarded for each in-hand project having project cost from Rs. 60M to Rs. 79.99M up to maximum of 16 marks. • No marks will be awarded for project having project cost < Rs. 60M. Form. EXP – 4.2 (b) i. The applicants must provide Award Letter of in-hand projects. No marks will be given to the projects for which above certificate is not provided. ii. Applicant shall provide complete information of the projects including scope, cost and covered area etc. iii. Proportionate marks on the basis of share in JV agreement will be awarded to each partner, for projects executed as Joint Venture (JV). **(14)** 08 marks will be awarded for each in-hand project having project cost ≥ Rs. 100M up to maximum of 16 marks • 06 marks will be awarded for each in-hand project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 16 marks. 04 marks will be awarded for each in-hand project having project cost from Rs. 60M to Rs. 79.99M up to maximum of 16 marks. • No marks will be awarded for project having project cost < Rs. 60M. Form. EXP – 4.2 (b) i. The applicants must provide Award Letter of in-hand projects. No marks will be given to the projects for which above certificate is not provided. ii. Applicant shall provide complete information of the projects including scope, cost and covered area etc. iii. Proportionate marks on the basis of share in JV agreement will be awarded to each partner, for projects executed as Joint Venture (JV). **(12)** 08 marks will be awarded for each in-hand project having project cost ≥ Rs. 100M up to maximum of 16 marks • 06 marks will be awarded for each in-hand project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 16 marks. 04 marks will be awarded for each in-hand project having project cost from Rs. 60M to Rs. 79.99M up to maximum of 16 marks. • No marks will be awarded for project having project cost < Rs. 60M. Form. EXP – 4.2 (b) i. The	16

Personnel Capabilities Form PER-1 and PER-2 Provide the following for each personnel, failing which, no marks will be awarded: a. verifiable proof of employment with the bidder of the proposed staff b. detailed CV c. valid PEC Registration for Engineers d. Diploma Certificates of DAE staff (Quantitative)(Doc Required) Project Manager 5 marks will be awarded for B.Sc. Civil Engineer having at least 08 years relevant experience. Max Marks = 5 Site Engineer 3 marks will be awarded for B.Sc. Civil Engineer having at least 06 years relevant experience. Max Marks = 3 B2.2 Associate Engineer (Civil) 2 marks will be awarded for Associate Engineer having B-Tech / DAE Civil and at least 06 years relevant experience Max Marks = 2 B2.3 Associate Engineer (E/M) 2 mark will be awarded for Associate Engineer having B-Tech / DAE (E/M) and at least 06 years relevant experience. Max Marks = 2 B2.4 Quantity Surveyor (Civil) 2 mark will be awarded for Quantity Surveyor having B-Tech / DAE Civil and at least 06 years relevant experience. Max Marks = 2 Surveyor 2 mark will be awarded for Surveyor having DAE/Certificate and at least 08 years relevant experience. Max Marks = 1 **(16)** Project Manager 5 marks will be awarded for B.Sc. Civil Engineer having at least 08 years relevant experience. Max Marks = 5 Site Engineer 3 marks will be awarded for B.Sc. Civil Engineer having at least 06 years relevant experience. Max Marks = 3 B2.2 Associate Engineer (Civil) 2 marks will be awarded for Associate Engineer having B-Tech / DAE Civil and at least 06 years relevant experience Max Marks = 2 B2.3 Associate Engineer (E/M) 2 mark will be awarded for Associate Engineer having B-Tech / DAE (E/M) and at least 06 years relevant experience. Max Marks = 2 B2.4 Quantity Surveyor (Civil) 2 mark will be awarded for Quantity Surveyor having B-Tech / DAE Civil and at least 06 years relevant experience. Max Marks = 2 Surveyor 2 mark will be awarded for Surveyor having DAE/Certificate and at least 08 years relevant experience. Max Marks = 1 **(12)** Project Manager 5 marks will be awarded for B.Sc. Civil Engineer having at least 08 years relevant experience. Max Marks = 5 Site Engineer 3 marks will be awarded for B.Sc. Civil Engineer having at least 06 years relevant experience. Max Marks = 3 B2.2 Associate Engineer (Civil) 2 marks will be awarded for Associate Engineer having B-Tech / DAE Civil and at least 06 years relevant experience Max Marks = 2 B2.3 Associate Engineer (E/M) 2 mark will be awarded for Associate Engineer having B-Tech / DAE (E/M) and at least 06 years relevant experience. Max Marks = 2 B2.4 Quantity Surveyor (Civil) 2 mark will be awarded for Quantity Surveyor having B-Tech / DAE Civil and at least 06 years relevant experience. Max Marks = 2 Surveyor 2 mark will be awarded for Surveyor having DAE/Certificate and at least 08 years relevant experience. Max Marks = 1 **(8)** Project Manager 5 marks will be awarded for B.Sc. Civil Engineer having at least 08 years relevant experience. Max Marks = 5 Site Engineer 3 marks will be awarded for B.Sc. Civil Engineer having at least 06 years relevant experience. Max Marks = 3 B2.2 Associate Engineer (Civil) 2 marks will be awarded for Associate Engineer having B-Tech / DAE Civil	16

Equipment Capabilities Proportionate marks will be awarded if minimum number of corresponding equipment is less than minimum required. Provide an undertaking on stamp paper to the effect that the listed equipment is available with the firm and will be made available, as and when required, for the Project. (Quantitative)(Doc Required) Concrete Mixer Machine Min. Quantity = 02 No. Marks = 02 B3.2 Excavator Min. Quantity = 01 No. Marks = 02 B3.3 Hoist Min. Quantity = 02 Set Marks = 02 B3.4 Dewatering Pump (3HP) Min. Quantity = 01 No. Marks = 01 B3.5 Scaffolding Min. Quantity = 15,000Rft Marks = 02 B3.6 Shuttering Min. Quantity = 10,000 Sft. Marks = 02 B3.7 Tractor Trolley Min. Quantity = 02 No. Marks = 2 teel Cutting / Bending Machine Min. Quantity = 01 No. Marks = 01 B3.9 Generator Set (10 KVA) Min. Quantity = 01 No. Marks = 01 B3.10 Total Station Min. Quantity = 01 No. Marks = 01 **(16)** Concrete Mixer Machine Min. Quantity = 02 No. Marks = 02 B3.2 Excavator Min. Quantity = 01 No. Marks = 02 B3.3 Hoist Min. Quantity = 02 Set Marks = 02 B3.4 Dewatering Pump (3HP) Min. Quantity = 01 No. Marks = 01 B3.5 Scaffolding Min. Quantity = 15,000Rft Marks = 02 B3.6 Shuttering Min. Quantity = 10,000 Sft. Marks = 02 B3.7 Tractor Trolley Min. Quantity = 02 No. Marks = 2 teel Cutting / Bending Machine Min. Quantity = 01 No. Marks = 01 B3.9 Generator Set (10 KVA) Min. Quantity = 01 No. Marks = 01 B3.10 Total Station Min. Quantity = 01 No. Marks = 01 **(12)** Concrete Mixer Machine Min. Quantity = 02 No. Marks = 02 B3.2 Excavator Min. Quantity = 01 No. Marks = 02 B3.3 Hoist Min. Quantity = 02 Set Marks = 02 B3.4 Dewatering Pump (3HP) Min. Quantity = 01 No. Marks = 01 B3.5 Scaffolding Min. Quantity = 15,000Rft Marks = 02 B3.6 Shuttering Min. Quantity = 10,000 Sft. Marks = 02 B3.7 Tractor Trolley Min. Quantity = 02 No. Marks = 2 teel Cutting / Bending Machine Min. Quantity = 01 No. Marks = 01 B3.9 Generator Set (10 KVA) Min. Quantity = 01 No. Marks = 01 B3.10 Total Station Min. Quantity = 01 No. Marks = 01 **(8)** Concrete Mixer Machine Min. Quantity = 02 No. Marks = 02 B3.2 Excavator Min. Quantity = 01 No. Marks = 02 B3.3 Hoist Min. Quantity = 02 Set Marks = 02 B3.4 Dewatering Pump (3HP) Min. Quantity = 01 No. Marks = 01 B3.5 Scaffolding Min. Quantity = 15,000Rft Marks = 02 B3.6 Shuttering Min. Quantity = 10,000 Sft. Marks = 02 B3.7 Tractor Trolley Min. Quantity = 02 No. Marks = 2 teel Cutting / Bending Machine Min. Quantity = 01 No. Marks = 01 B3.9 Generator Set (10 KVA) Min. Quantity = 01 No. Marks = 01 B3.10 Total Station Min. Quantity = 01 No. Marks = 01 **(4)**	16

Financial Soundness FORM FIN - 3.1, FIN - 3.2 and FIN 3.3 The bidder shall submit Audited financial statements for the last three years duly certified by the Chartered Accounts Firms shall submit copies of Credit Line Facility in specific name of the Project. No marks shall be awarded, if the audited financial statements for last 3 years and credit line facility are not provided. (Quantitative)(Doc Required) The minimum annual volume of construction work (Annual Turn Over) during any of the last three years: Max Marks = 16 • 8 Marks will be awarded if the Turnover is in range of PKR. 100 million to PKR. 150 million 16 Marks will be awarded if the Turnover is more than PKR. 150 million. **(16)** The minimum annual volume of construction work (Annual Turn Over) during any of the last three years: Max Marks = 16 • 8 Marks will be awarded if the Turnover is in range of PKR. 100 million to PKR. 150 million 16 Marks will be awarded if the Turnover is more than PKR. 150 million. **(8)**	16
Working Capital (Quantitative)(Doc Required) The amount of Working Capital (Current Assets – Current Liabilities) & credit facilities (in specific name of the Project), net of other construction commitments of the construction, shall be as under: Max Marks = 16 • 8 Marks will be awarded if the Working Capital & Credit Facility is in range of PKR. 30 million to PKR. 40 million • 16 Marks will be awarded if the Working Capital & Credit Facility is more than PKR. 40 million. **(16)** The amount of Working Capital (Current Assets – Current Liabilities) & credit facilities (in specific name of the Project), net of other construction commitments of the construction, shall be as under: Max Marks = 16 • 8 Marks will be awarded if the Working Capital & Credit Facility is in range of PKR. 30 million to PKR. 40 million • 16 Marks will be awarded if the Working Capital & Credit Facility is more than PKR. 40 million. **(8)**	16

Jobs/Lots

Jobs Without Lots :

Job	Delivery Schedule	Quantity	Bid Security

Construction of 100m Shooting Range	**Address:** Gun & Country Club near Pakistan Sports Board Complex, Islamabad, Islamabad Capital Territory**Schedule:** 365 Days**Quantity:** 1/Qty	1/Qty	1800265 PKR

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Work Specifications and Market Rates

Jobs Without Lots :

Job: Construction of 100m Shooting Range

Specifications / Requirements:

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
1	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
2	(b)	(c)	(d)	(e)	(f)	(g)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
3	03-21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) lift upto 5 ft (1.5m) 1) a) By Manual (iii) Hard soil or Soft murum	1000 Cft	47.617	19124.15	910635
4	03-15(i)	Filling, watering and ramming earth under floors. i) with surplus earth from foundation, etc.	1000 Cft	28.01	8155.5	228436

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
5	10-61	Supplying and placing of Structural Pad / Engineered fill comprising sand and sub base aggregate material in specified propotion to improve the bearing capacity of soil and to be placed in equal layers of maximum 6" thick compacted to 95% of modified procotor AASHTO density using specified compaction methodology, complete in all respect, as approved by the Engineer Incharge. a) Compaction by Plate Compactor i) 50% sand and 50% aggregate	100 Cft	166.85	4104.3	684802

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
6	06-02	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100Cft	21.65	14076.5	304756
7	(h)	Ratio 1:3:6	100 Cft	0.65	41542.3	27002
8	(i)	Ratio 1:4:8	100 Cft	54.169003895	36029.5	1951682
9		(3) Type C (nominal mix 1: 2: 4)	Per Cft	22778	773.55	17619922
10		(3) Type C (nominal mix 1: 2: 4)	Per Cft	10658	618.1	6587710
11		ii) (Grade-60)	100kg	1215	30827.85	37455838
12	07-05 (i)	Pacca brick work in 1:4 C/S mortar in Ground floor	100 Cft	108.8	43384.35	4720217
13		i) 3 mm thick	Per Sft	5920	126.35	747992
14		(iii) 600mm x 600 mm (24"x24")	Per Sft	850	459.75	390787.5

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
15		(iii) 600mm x 600 mm (24"x24")	Per Sft	4570	459.6	2100372
16		(a) 12"x12"x1" (300 x 300 x 25 mm)	100 Sft	10.95	21784.9	238545
17		ii) Jet Black 3/4" thick (size 12"x24"/12"x36")	Sft	865	535.92	463571
18	10-48	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge iii) 3/4" thick Granite	Per Sft	216	1147.25	247806

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
19		iv) 1/2" thick Granite	Per Sft	115	958.25	110199
20	10-50	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	Per Rft	140	39.9	5586
21	10-51	Extra cost for making hole in Marble slab for fixtures, Sink,burners,basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	Each	4	980.7	3923
22	11-9(b)	Cement plaster 1:4 upto 20' (6.00 m) height: b) ½" (13 mm) thick	100 Sft	94.51	4958.8	468656

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
23	11-9(c)	Cement plaster 1:4 upto 20' (6.00 m) height: c) ¾" (20 mm) thick	100 Sft	326.55	6641.3	2168717
24	11-12	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C.roof slabs only, upto 20' height. b) 1:3	100 Sft	54.65	5676.55	310223

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
25	12-05	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge a) Deodar wood Door (i) 2" thick (50 mm)	Sft	210	3196.9	671349

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
26	12-13	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	Per Sft	85	909.2	77282
27		b) Deodar wood	Per Sft	295	1075.45	317258

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
28	26-49	Providing and fixing of factory made Premium uPVC Door of ESTA, Zealcon or approved equivalent with door frame (chowkat) Comprising of 3mm (min) Wall Thickness Outer Frame 60mm X 64 mm, Leaf Sash 100mm X 60 with Reinforced 1mm GI coated rust free Steel and 20mm Panel having Grooves on Both sides, weldable TPV or EPDM Gasket including hinges, T-lock, tower bolt, handle & all hardware's and necessary fittings complete in all respect as per approved specifications and as approved by the Engineer incharge.	Per Sft	55	1719.55	94575

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
29	12-64	Providing and fixing Imported Mortise Lever Handle Lock with back plate (Machine, Cylinders, Lever Handles (Pair) and backplate (Pair) of approved quality, design & finish, including the cost of all accessories to complete the job as shown on drawing and as per specification, complete in all respect, as approved and directed by the Engineer Incharge	Each	8	4569.55	36556.4

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
30	25-52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge	Per Sft.	851	1290.6	1098301

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
31	25-53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer / powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.	Per Sft.	425.5	538.3	229047
32		i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	100 Sft	126.71	2825.1	357968
33		a) 1st coat	100 Sft	81.75	1791.6	146463
34		b) 2nd & each subsequent coat.	100 Sft	163.5	1395.55	228172

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
35	11-40	Providing & applying 1.5 mm thick fine textured high quality Sandtex Coating formed of special Acrylic base protective decorative coating of approved colour & shade with trowel having top class finish over well cleaned plastered surface i/c preparation and cleaning the surface,complete in all respect as approved and directed by the Engineer Incharge	Per Sft	2750	84.2	231550

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
36	13-44	Preparing surface and Lacquar polish to reveal wooden grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge. (ii) Glossy Finish	Per Sft	1180	294.65	347687

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
37	13-46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	100 Sft	341.75	576.25	196933
38	25-57	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, inwindows of approved design, including painting three coats, complete in all respects.	Per Rft	851	629.95	536087

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
39	25-10	Fabrication of heavy steel / Iron work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders,tanks, etc., including cutting, drilling, revitting, handling,assembling and fixing, but excluding erection in position	100 Kg	747.51814882033	2312.6	1728710
40	25-11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100 Kg	747.51814882033	1535.9	1148113

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
41	26-43	Spraying termite proofing by using liquid FMC/ Biflex/ Terminex Exin/ Ms Hextar or equivalent @ specified suspension concenterate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	16630	12.7	211201

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
42	25-63	Providing and fixing 5.00 ft dia MS spiral stair comprising of triangular steps made of 1-1/4"x1-1/4"x3/16" duly welded with 3/8"MS squar bars steps, supported/welded with main vertical post of 4" dia GI pipe (Medium Quality) embeded in PCC in ground i/c the cost of pipe railing comprising of 2" dia MS pipe of 16 SWG supportrd with 2 no 5/8" squar bars in each step, i/c fixing & painting complete in all respects as approved and directed by the Engineer Incharge(Measurement will be made above ground level).	P. Rft	20	7664.35	153287

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
43	NS-01	Providing and fixing dampa ceiling aluminium, 2' x 2' tiles/ strip ceiling including all accessories i.e of approved design (imported or approved equivalent manufacturer) perforated with diffusion membrane, with approved Aluminum adjustable suspension system complete in all respects as per design shown on drawings.	Sft	3820		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
44	NS-02	Provide & fix expended metal 1/2" to 3/4", 22 guage fixed walls or on area as required and specified on drawings with steel nails with washers complete in all respects.	Sft	4757.1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
45	NS-03	Providing and applying 3 coats of synthetic enamel paint of approved make, colour and shade on internal/external plastered walls, including surface preparation by thorough cleaning, scraping of loose paint, filling cracks and imperfections with approved filler/putty, sanding smooth, application of one coat of suitable primer/undercoat and two finishing coats of enamel paint, including all necessary materials, labour, scaffolding, tools and equipment, complete in all respects as per drawings, specifications and instructions of the Engineer	Sft	260		

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
46	NS-04	Prepare and apply externally ‘Jotun’ or equivalent and approved paint system comprising one coat of Oil Primer ‘Penetrating Primer' and two finishing coats of Pure Acrylic based exterior grade product ‘2X UV Protected Colours, Flexible , Breathable, Anti Carbonization Coating, Dirt Resistant and Temperature Reduction Weather Resistant paint with anti fade coloursof approved colours all construction based on Manufacturer’s recommendation'Jotan	Sft	29910		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
47	NS-05	Providing, supplying and laying Dhaka grass/turf of approved variety and quality over prepared ground, including dressing and leveling of soil, removal of weeds and debris, supply and spreading of fertile topsoil/manure where required, laying and proper joining of grass turf, watering, rolling and initial maintenance until proper establishment, complete in all respects as per drawings, specifications and instructions of the Engineer.	Sft	25500		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
48	NS-06	Supply and installation of Wood Plastic Composite (WPC) ceiling panels, manufactured from weather-resistant composite material, designed to be durable, moisture-proof, termite-proof, and low maintenance. Installation shall include all necessary fixtures, fasteners, and accessories, and complete in all respects as per drawings and as directed by The Engineer’s instructions.	Sft	1650		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
49	S. No.	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
50	(a)	(c)	(d)	(e)	(f)	(g)
51	E-01	20 mm i/d	Rft.	2300	120.45	277035
52	E-02	25 mm i/d	Rft.	1200	140.15	168180
53	E-03	50 mm i/d	Rft.	100	241.95	24195
54	E-04	01 Gange	Each	5	463.2	2316
55	E-05	02 Gange	Each	3	704.4	2113.2
56	E-06	Three pin Light Plug 10/13 Amp	Each	47	754.45	35459.15
57	E-07	Telephone / TV/Datacable socket	Each	1	662.45	662.45
58	E-08	Bell push	Each	2	598.2	1196.4
59	E-09	Three Pin Power Plug 15-32 Amp	Each	6	924.55	5547.3
60	E-10	04 Gange	Each	5	981.25	4906.25
61	E-11	05 Gange	Each	6	1151.35	6908.1
62	E-12	06 Gange	Each	3	1405.85	4217.55

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
63	E-13	01 Gange One Way/ Two Way	Each	2	775.85	1551.7
64	E-14	1.5 mm sq (3/0.029")	Per Rft.	9000	42.75	384750
65	E-15	2.5 mm sq (7/0.029")	Per Rft.	3600	63.1	227160
66	E-16	4 mm sq (7/0.036")	Per Rft.	1700	83.4	141780
67	E-17	16 mm (7/0.064")	Per Rft.	300	951.05	285315
68	E-18	6 mm sq (7/0.044")	Per Rft.	300	102.6	30780
69	E-19	Plastic body - 10" dia	Each	1	5235.5	5235.5
70	E-20	Plastic body - 12" dia	Each	1	5685.5	5685.5
71	E-21	12" sweep	Each	1	5516.75	5516.75
72	E-22	24" Sweep dia	Each	1	10703	10703
73	E-23	56" dia	Each	33	10180.2	335946.6
74	E-24	6-63 Amp (10 KA)	Each	28	1459.05	40853.4
75	E-25	15-100 Amp(18KA)	Each	1	23154.9	23154.9

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
76	E-26	75~100A	P.CFT	1	18641.05	18641.05
77	E-27	Selector Switch	Each	1	1228.8	1228.8
78	E-28	Digital Voltmeter (0-600 Volt)	Each	1	1012.8	1012.8
79	E-29	Digital Ammeter (0-9999 Amp)	Each	1	1228.8	1228.8
80	E-30	LED Phase Indicator	Each	3	622.8	1868.4
81	E-31	Push Button ON/OFF (Make: Schneider/Himal/Eqv.)	Each	3	631.15	1893.45
82		16-Channel	Each	1	116388.7	116388.7
83		10 TB	Each	2	69327	138654
84		Fixed Bullet Type	Each	12	71512.5	858150

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
85	E-35	Supply, Installation and commissioining with Addressable Break Glass unit, (Manual Call Point) with key type EN-54 having a built in short circuit isolator and microprocessor to ensure a response time of max. 1 second,having an indication LED flash after pressing the button to acknowledge the activation and a key operation facility for testing purposes. made of Honeywell/ Bosch/ Eaton (UK) or as approved and directed by the Engineer Incharge.	Each	2	18588.9	37177.8

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
86		ii) Dual Detector	Each	6	12540.9	75245.4
87	E-37	Supply, Installation and commissioning of wiring for Signals RS 485, Shielded Copper Cable , in prelaid conduit . Make 3M / Belden, or equivalent as approved and directed by the Engineer Incharges.	Rft	800	80.7	64560
88		FACP 1-Loop	Each	1	294577.15	294577.15

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
89	E-39	Providing, making & testing/commissioning of Rod type Earth point comprising of 5/8" dia. (16 mm dia) 10 ft long copper coated M.S. rod driven in ground duly fixed with clamp with Tinned earth test link copper plate (300x50x10mm), i/c the cost of brass nuts,spacers, bolts washers lugs etc but excluding the cost of copper strand & manhole. as approved and directed by Engineer Incharge (Rod Type Earthing).	Each	2	21210.95	42421.9

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
90	E-40	Supply, installation, testing and commissioning of 20W LED Spot Light, complete with LED source, driver and mounting bracket, suitable for 220–400 V AC, 50/60 Hz, with power factor ≥0.95, luminous efficacy suitable to provide the required illumination, IP66 ingress protection and IK10 impact protection, complete with all accessories and necessary connections for a complete installation (Shooting Range and Ammunition Storage)	No.	72		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
91	E-41	15-20 W Surface/ ceiling Mounted LED downlight with bult in integrated driver and frosted glass diffuser	No.	50		
92	E-42	7-10 W Surface/ ceiling Mounted LED downlight with bult in integrated driver and frosted glass diffuser	No.	66		
93	E-43	7-10 W Mirror Lght complete in all respect	No.	1		
94		2.0 Ton (24000 BTU)	Job	5		
95	E-45	Supply and installation of 65'' Led display as approved by the engineer incharge.	Each	2		
96	Sr. No.	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
97	(a)	(c)	(d)	(e)	(f)	(g)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
98	BP-01	PORTA HD 102N Toilet Cito with Hydraulic Seat Cover	Each	1	59851.1	59851.1
99	BP-02	Providing and fitting white glazed earthen ware water closet, squartter type, with separate foot rest.	Each	2	8761.75	17523.5
100	BP-03	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete , white	Each	2	5804.95	11609.9
101	BP-04	(i) 4" dia	Each	2	960.2	1920.4
102	BP-05	Providing and fixing, flushing bend of PVC , 4cm (1-1/2")	Each	2	394.65	789.3
103	BP-06	Under Counter Vanity Basin	Each	3	13047.55	39142.65

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
104	BP-07	Providing and fixing, chromium plated soap dish.	Each	3	981.6	2944.8
105	BP-08	Stainless steel	Each	1	4229.4	4229.4
106	BP-09	18" long	Each	2	3785.5	7571
107	BP-10	Providing and fixing, chromium plated toilet paper holder.	Each	1	1271.85	1271.85
108	BP-11	Providing and fixing, chromium plated towel rail, 60 cm (24") long, and 2 cm (¾") dia	Each	1	1337.2	1337.2
109	BP-12	Providing and fixing looking glass 55x40 cm (22"x16") size and minimum 5 mm thick, first quality.	Each	3	1546.2	4638.6
110	BP-13	Providing and fixing chromium plated bib cock 1.5cm (1/2")	Each	1	1588	1588

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
111	BP-14	Providing and fixing chromium plated Tee stop cock 15mm (1/2")	Each	9	2068	18612
112	BP-15	Lever Type Basin Mixer	Each	3	6707	20121
113	BP-16	Double Bib Cock	Each	3	1907	5721
114	BP-17	Muslim shower	Each	3	2387	7161
115	BP-18	Bottle Trap	Each	3	1487	4461
116	BP-19	Providing and fixing 1.5 cm (½") dia connection, including check nuts, etc, (plastic rubber connection)	Each	3	388.8	1166.4
117	BP-20	35 Gallons	Each	1	67323	67323
118	BP-21	20mm dia	Rft	10	74.05	740.5
119	BP-22	25mm dia	Rft	100	101.85	10185
120	BP-23	32mm dia	Rft	50	162.1	8105
121	BP-24	40mm dia	Rft	50	247.3	12365
122	BP-25	50mm dia	Rft	50	355.3	17765

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
123	BP-26	63mm dia	Rft	100	554.65	55465
124	BP-27	3/4" dia Brass Threaded Valves	Each	5	3510	17550
125	BP-28	1" dia Brass Threaded Valves	Each	3	5025.6	15076.8
126	BP-29	1-1/4" dia Brass Threaded Valves	Each	1	7039.2	7039.2
127	BP-30	1-1/2" dia Brass Threaded Valves	Each	1	9930	9930
128	BP-31	1" dia Brass Threaded Valves	Each	1	5269.2	5269.2
129	BP-32	3/4 inches	Each	2	1896	3792
130	BP-33	50mm	Rft	30	103.95	3118.5
131	BP-34	82mm	Rft	60	160.6	9636
132	BP-35	110mm	Rft	50	254.3	12715
133	BP-36	160mm	Rft	100	493.4	49340
134	BP-37	Multi-Trap 4"	Each	1	1436.1	1436.1
135	BP-38	Vent Cowel 3"	Each	1	386.1	386.1
136	BP-39	Clean out 4" Dia	Each	2	441.4	882.8

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
137	BP-40	Clean out 3" Dia	Each	1	354.3	354.3
138	BP-41	4" Diameter	Each	3	1254.95	3764.85
139	BP-42	with C.I. gully trap, weighing 81 lbs. (36.75 Kg.) frame hinged safety type.	Each	1	17360.1	17360.1
140	BP-43	110mm	Rft	50	254.3	12715
141	BP-44	160mm	Rft	200	493.4	98680
142	BP-45	4" Diameter	Each	2	1284.8	2569.6
143	BP-46	6" Diameter	Each	14	1648.2	23074.8
144	BP-47	i) Dry Chemical Powder capacity 6 Kg.	Each	2	13329.6	26659.2
145	BP-48	ii) CO2 Capacity 5 kg.	Each	2	33067.2	66134.4

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
146	1	WORKING DESK Supply and installation of powder coated MS frame with MDF based wilsonart laminate table top. MDF Thickness: 16mm MDF based wilsonart laminate cabinetry Premium quality accessories including Handles, Hinges, Channels, locks and other necessary hardware. Note: Colour can be finalized as per client's requirement, price may vary.	Each	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
147	2	REXINE SOFA Supply and installation of sofa, fabricated with MS frame for durability and strength. The seat and backrest to be cushioned with high-density foam and upholstered in rexine	Each	20		
148	3	OFFICE REVOLING CHAIR High-back ergonomic chair with cushioned seat and backrest, lumbar support, premium upholstery, pneumatic height adjustment, 360° swivel, smooth castor wheels, and sturdy 5 star base.	Each	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
149	4	WAITING CHAIR SINGLE SEATER Supply of chair with cushioned seat and backrest, durable upholstery, sturdy metal frame, and stable non-revolving legs.	Each	72		
150	5	WAITING CHAIR 04 SEATER Supply of chair with cushioned seat and backrest, durable upholstery, sturdy metal frame, and stable non-revolving legs.	Each	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
151	6	CAFÉ CHAIR Supply and of Cafe Chairs with ergonomically designed seat and backrest, manufactured from high-quality upholstered finish	Each	35		
152	7	COFFEE TABLE Supply of Round wooden coffee table with wilsonart laminate tabletop and sturdy wilsonart laminate base. Note: Color can be finalized as per client's requirement, price may vary.	Each	4		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
153	8	CAFE TABLE Supply of Cafe Tables comprising a high-quality Wilsonart laminate, MDF with laminate finish, supported on a sturdy powder-coated MS frame.	Each	2		
154	9	CENTER TABLE Supply of Center Table comprising a high-quality MDF based Wilsonart laminate table top, supported on a powder coated MS frame.	Each	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
155	10	BAR STOOL Supply of Round Stools, comprising a circular seat with high quality upholstered cushion finished in approved fabric upholstery. Supported on a powder-coated mild steel (MS) frame with integrated footrest and protective floor glides.	Each	7		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	Ref. No.	Description	Unit	Qty	Rate	Amount
156	11	VISITOR CHAIR Shell Sofa 4-Seater with Double Channel with Steel Legs. Best sitting solution for public places, schools, colleges and commercial areas. Manufactured with pure material which gives it extra life and support.	Each	20		
					GRAND TOTAL:	Rs90,013,226.45

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Scope of Work

The scope of works mainly comprises Civil, Electrical, Plumbing, Infrastructure Development and related Ancillary Works lying within the boundaries and limits as shown on the drawings and any such additional areas adjacent thereto as may be designated by the Engineer from time to time for the construction to be performed under the Contract, and all such areas and additional areas shall comprise the Site.

Brief Description

1. Scope of Bid 1.1 The Procuring agency/Employer (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the execution of Works as specified in the BDS and Section V- Works Requirements. The name, identification, and number of lots (contracts) of this National/ International Competitive Bidding process are specified in the BDS. 2. Source of Funds 2.1 Source of funds as referred in Bid Data Sheet. 3. Eligible Bidders 3.1 A bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country, or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture or consortium. In the case of a joint venture or consortium, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture or consortium shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture or consortium during the Bidding process, and in case of award of contract, during the execution of contract. (The limit on the number of members of JV or Consortium may be prescribed in BDS, in accordance with the guidelines issued by the PPRA). 3.2 The appointment of Lead Member in the joint venture or consortium shall be confirmed by submission of a valid Power of Attorney to the Procuring agency/Employer 3.3 Verifiable copy of the agreement that forms a joint venture or consortium shall be required to be submitted as part of the Bid. 3.4 Any bid submitted by the joint venture or consortium shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior

written approval of the Procuring agency/Employer and in line with any instructions issued by the Authority. 3.5 The invitation for bids is open to all prospective bidders subject to any provisions of incorporation or licensing by the respective national/ international incorporating agency or statutory body established for that particular trade or business. 3.6 . Foreign Bidders must be locally registered with the appropriate national incorporating body or the statutory body, before participating in the national/international competitive 100 Meter Shooting Range 7 of 145 bidding with the exception of such procurements made by the foreign missions of Pakistan. For such purpose the bidder must have to initiate the registration process before the bid submission and the necessary evidence shall be submitted to the Procuring agency/Employer along with their bid, however, the final award will be subject to the complete registration process. 3.7 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidders may be considered to have a conflict of interest with one or more parties in this Bidding process, if they: a) are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring agency/Employer to provide consulting services for the preparation of design or technical specifications of the works that are the subject of the bid; or b) any of its affiliates has been hired (or is proposed to be hired) by the Procuring agency/Employer as Engineer for the Contract implementation; or c) The works to be executed are resulting from or directly related to consulting services for the preparation or implementation of the project that the bidder provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; d) have controlling shareholders in common; or e) receive or have received any direct or indirect subsidy from any of them; or f) have the same legal representative for purposes of this Bid; or g) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the Procuring agency/Employer regarding this Bidding process; or h) Submit more than one bid in this bidding process. 3.8 A Bidder may be ineligible if – (a) he is declared bankrupt or, in the case of company or firm, insolvent; (b) payments in favor of the bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property; 100 Meter Shooting Range 8 of 145 (c) legal proceedings are instituted against such bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property; (d) the bidder is convicted, by a final judgment of a Court of Law or relevant Professional Statuary Body, of any offence involving professional conduct; (e) The bidder is debarred/ blacklisted by a national level Procuring agency/Employer and hence debarred due to involvement in corrupt and fraudulent practices, or

performance failure or due to breach of bid securing declaration. (f) The bidder is blacklisted or debarred by a foreign country, international organization, or other foreign institutions for the period defined by them. 3.9 Bidders shall provide to the Procuring agency/Employer evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively. 3.10 Bidders shall provide such evidence of their continued eligibility to the satisfaction of the Procuring agency/Employer, as the Procuring agency/Employer shall reasonably request. 3.11 Bidders shall submit proposal relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract is envisaged. 4. Eligible Material and Equipment 4.1 All the material and equipment to be mobilized under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such materials and equipment. For this purpose, ineligible countries are stated in the section-IV titled as “Eligible Countries”. 4.2 For purposes of this Clause, “origin” means the place where the material, equipment is produced, manufactured, or processed, or through manufacture, procession, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components or the place from where the services are/to be supplied. 4.3 The nationality of the bidder shall not determine the origin of the material and equipment. 4.4 To establish the eligibility of the material and equipment, Bidders shall fill the country-of-origin declarations included in the Form of Bid. 100 Meter Shooting Range 9 of 145 5. One Bid per Bidder 5.1 A bidder shall submit only one bid, in the same bidding process, either individually as a bidder or as a member in a joint venture or any similar arrangement. 5.2 No bidder can be a sub-contractor while submitting a bid individually or as a member of a joint venture in the same bidding process. 6. Cost of Bidding 6.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring agency/Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

Price Schedule

For Individual Jobs

#	Job Title	Quantity	Unit Price (PKR)	Total Price (PKR)	Delivery Location	Delivery Period / Year	Country of Origin
1							
2							

For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
1	[Lot 1 Title]		

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General Conditions of Contract

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The Conditions of Contract are the "General Conditions" which form part of the "Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer ("Red book") Second edition 2017" published by the Federation Internationale Des Ingenieurs – Conseils (FIDIC) and the following "Particular Conditions" which shall complement the General Conditions of the Contract.

The successful Bidder, upon contract award, shall be required to furnish two (02) copies of aforementioned "General Conditions" for incorporation in the Works Contract.

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PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Special Conditions of Contract

PARTICULAR CONDITIONS OF CONTRACT (PCC)

Particular Conditions
(Mandatory Provisions not to be amended/substituted)

The Particular Conditions (PCC) complement the General Conditions (GCC) to specify dates, contractual requirements, and special circumstances related to the Works. The PCC consists of two parts, Part A - Contract Data and Part B - Special Provisions. The provisions to be found in the Special Provisions (Particular Conditions - Part B) take precedence over the equivalent provisions found under the same Sub-Clause number(s) in the General Conditions, and the provisions of the Contract Data (Particular Conditions - Part A) take precedence over the Special Provisions (Particular Conditions - Part B).

PART A - Contract Data

Sub-Clause 1.1.27
Defects Notification Period (DNP): **30** Days

Sub-Clause 1.1.31
Employer's name & address: **Gun & Country Club-Islamabad (Guns and Country Club-Islamabad), Secretary Gun & Country Club near Pakistan Sports Board Complex, Islamabad, Islamabad Capital Territory**

Sub-Clause 1.1.35
Engineer's name & address: Khabir Kamran

Gun & Country Club Islamabad

Sub-Clause 1.1.84
Time for Completion: **365** days for whole of the works

Sub-Clause 1.3 (a)(ii)
Agreed method of electronic transmission: Agreed
The Electronic Transmission Methods are EPADS

Sub-Clause 1.3 (d)
Address of Empoyer for Communications: **Gun & Country Club near Pakistan Sports Board Complex, Islamabad, Islamabad Capital Territory**
Address of Engineer for Communications:

Gun & Country Club Islamabad

Address of Contractor for Communications: ----------

Sub-Clause 1.4
Contract shall be governed by the law of: **Islamic Republic of Pakistan**
Ruling language: **English**
Language for communications: **English**

Sub-Clause 2.1
After receiving the Letter of Acceptance, the Contractor shall be given right of access to all or part of the Site within: **15** days after Commencement Date

Sub-Clause 2.4
Employer's financial arrangements:

Funds already available

Sub-Clause 3.2 (e)(ii)
Engineer's Duties and Authority: **Variation resulting in an increase of the Accepted Contract Amount in excess ofone percent (1%)subject to accumulative Variations not exceeding five percent (5%)of the Accepted Contract Amount**

Sub-Clause 4.2
Performance Security (as percentage of the Accepted Contract Amount in Currencies): 10.00%
Form of Performance Guarantee: **Pay Order, Banker's Cheque, Call at Deposit, Bank Guarantee, Demand Draft**

Sub-Clause 4.2.1
List of Insurance Companies:

None

Sub-Clause 4.7.2
period for notification of errors in the items of reference: **Twenty Eight (28) days**

Sub-Clause 4.19
Period of payment for temporary utilities: **Each Month**

Sub-Clause 5.1 (a)
Maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount): **Nil** %

Sub-Clause 5.1 (b)
Parts of the Works for which subcontracting is not permitted: Nil

Sub-Clause 6.5
Normal working hours on the Site: **8**

Sub-Clause 8.3
Number of additional paper copies of programmes: **2**

Sub-Clause 8.8 & 14.15(b)
Delay Damages payable for each day of delay **0.10**% of the Accepted Contract Amountfor delay in completion of whole of the Works

Sub-Clause 8.8
Maximum amount of Delay Damages **10.00 %** of the Accepted Contract Amount

Sub-Clause 8.14
Applicability of Incentives for Early Completion **No**

Sub-Clause 12.3
Percentage profit (Not more than 10%): **Nil**

Sub-Clause 13.4.(b)(ii)
Percentage rate to be applied to Provisional Sums for overhead charges and profit: **Twenty Five percent (25%)**

Sub-Clause 14.2
Total Advance Payment: **Fifteen percent (15%) of the Accepted Contract Amount excluding Provisional Sums payable in the currencies and proportions in which the Accepted Contract Amount is payable**

Sub-Clause 14.2.1
Advance Payment Insurance **Allowed**

Sub-Clause 14.2.3
Percentage deductions for the repayment of the Advance Payment: Deduction shall be made at the amortization rate of 17.5 % of the value of the Works executed of each IPC as provided in paragraph (i) of Sub-Clause GCC 14.3, starting from 2nd IPC provided that the advance payment shall be completely repaid prior to the time when 90% of the Accepted Contract Amount less Provisional Sums has been certified for payment. It may be more than 17.5% in the last instalment to ensure full repayment.

Sub-Clause 14.3
Period of payment **One Month**

Sub-Clause 14.3(b)
Number of additional paper copies of Statements: **2**

Sub-Clause 14.3 (iii)
Percentage of retention: **Seven percent (7%)**

Sub-Clause 14.3 (iii)
Limit of Retention Money (as a percentage of the Accepted Contract Amount): **Five percent (5%)**

Sub-Clause 14.5(b)(i)
Plant and Materials for payment when shipped: **Plant and Materials under Bill of "Imported Plant and Materials"**

Sub-Clause 14.5(c)(i)
Plant and Materials for payment when delivered to the Site: Plant and Non Perishable Materials

Sub-Clause 14.6.2
Minimum amount of Interim Payment Certificate (IPC): **No**
[Employer to give value not exceeding one fifth of the average expected value of Interim Payment Certificate]

Sub-Clause 14.7(a)
Period of payment of Advance Payment to the Contractor**: 14 days**

Sub-Clause 14.7b(i)
Period for the Employer to make interim payments to the Contractor under Sub-Clause 14.6: **Nil** days

Sub-Clause 14.7b(ii)
Period for the Employer to make interim payments to the Contractor under Sub-Clause 14.13 (Final Payment)**: Nil** days

Sub-Clause 14.7(c)
Period for the Employer to make final payment to the Contractor**: 365** days

Sub-Clause 14.8
Financing charges for delayed payment Local Currency (PKR):
6-Month KIBOR (Offer) +3% per annum.

Foreign Currency:
USD
6-Month SOFR (Secured Overnight Financing Rate for USD) +1% per annum.

EURO
6-Month EURIBOR (EURO Interbank Offered Rate for EURO) +1% per annum.

Others
Appropriate rates +1% (for other foreign currencies, Ref. Schedule-A, A-4 to Bid).

Sub-Clause 14.11.1(b)
Number of additional paper copies of draft Final Statements**: 2**
[insert number of copies say six (06)]

Sub-Clause 14.15
Currencies of payment of Contract Price: **as stated in the Table Schedule of Adjustment Data of Schedule A (if Given)**

Sub-Clause 14.15(a)(i)
Proportions or amounts of Local and Foreign currencies: **as stated in the Table Schedule of Adjustment Data of Schedule A (if Given)**

Sub-Clause 14.15(c)
Currencies and proportions for payment of Delay Damages: **as stated in the Table Schedule of Adjustment Data of Schedule A (if Given)**

Sub-Clause 14.15(f)
rates of exchange: **as stated in the Table IV of Schedule A (If Given)**

Sub-Clause 17.2(d)
Forces of nature, the risks of which are allocated to the Contractor: **Nil**

Sub-Clause 19.1
Permitted deductible limits:
i) insurance required for the Works: **Ten percent (10%) of loss amount on each & every loss**
ii) insurance required for Goods: **Nil**
iii) insurance required for liability for breach of professional duty: **Nil**
iv) insurance required against liability for fitness for purpose (if any is required): **Nil**
v) insurance required for injury to persons and damage to property: **Nil**
vi) insurance required for injury to employees: **Nil**
vii) other insurances required by Laws and by local practice : **Nil**

Periods for submission of insurance:
a) evidence of insurance: Not later than the Commencement Date
b) relevant policies: Within twenty eight (28) day from the Commencement Date

Sub-Clause 19.2.1(b)
Additional amount to be insured (as a percentage of the replacement value): 15% of the replacement value (Accepted Contract Amount)
Sub-Clause 19.2.2
Extent of insurance required for Goods: From Ex-Works (i.e., works, factory, warehouse, etc) to delivery at the Site
Amount of insurance required for Goods: Full replacement value

Sub-Clause 19.2.3(a)
Amount of insurance required for liability for breach of professional duty: Full replacement value of the Works to be designed by the Contractor

Sub-Clause 19.2.3(b)
Insurance required against liability for fitness for purpose: **Yes**

Sub-Clause 19.2.3
Period of insurance required for liability for breach of professional duty: Until the date of issuance of Performance Certificate

Sub-Clause 19.2.4
Amount of insurance required for injury to persons and damage to property: Injury to person and Fatal case: in accordance with Workmen Compensation Act
Damage to Property: The Amount of Insurance Required for Person Injury is 10000
The Amount of Insurance Required for Damage to Property is 500000 as per his assessment of the adjoining property(ies) other than the Works]
without limit to the number of incidents

Sub-Clause 19.2.6
Other insurances required by Laws and by local practice: All insurances as applicable, to the extent of execution of the project, under Federal and Provincial laws of Islamic Republic of Pakistan

Sub-Clause 21.1
Time for appointment of the DAAB: Within 28 days from the Commencement Date.
In case the Accepted Contract Amount is lesser than PKR one (01) billion, appointment of the DAAB shall be made when Dispute arises between the Parties.

Sub-Clause 21.1
The DAAB shall comprise 1
[insert either “a sole Member” or “Three Members”]
[For a Contract estimated to cost above PKR 2.5billion, the DAAB shall comprise of three members. For a Contract estimated to cost between PKR1billion and PKR2.5billion, the DAAB may comprise of three members or a sole member. For a Contract estimated to cost less than PKR1billion, a sole member is recommended.]

Sub-Clause 21.1
List of proposed members of DAAB
- proposed by Employer

Members of Grievance Committee

- proposed by Contractor
[to be inserted at the time of signing of the Contract]
1._____
2._____
3._____

Sub-Clause 21.2
Appointing entity (official) for DAAB members Managing Director Public Procurement Regulatory Authority (PPRA) or Chairman Pakistan Engineering Council (PEC) from the list of PEC approved arbitrators published at its website

Sub-Clause 21.6
Rules of Arbitration: PEC Rules of Conciliation and Arbitration or Pakistan Arbitration Act of 1940, if the former is inactive.
The place of Arbitration shall be in the Employer's country: **Pakistan**
[Insert name of city]

Particular Conditions

PartB - Special Provisions

1.1 Definitions

1.1.76 "Specification"
Following is added at the end:
"and consists of two parts i.e.,
i) "Part A - Specific Provisions"; and
ii) "Part B - Technical Provisions"."

1.2 Interpretation

"and" is deleted from the end of sub-paragraph (i) and added at the end of sub-paragraph (j).
Sub-paragraph (k) is added:
"(k) The word "tender" is synonymous with "bid" the word tenderer with "bidder", the words "tender documents" with "bidding documents" and "Schedule of Prices" with "Bill of Quantities", as applicable."
1.5 Priority of Documents The documents listed at (a) through (k) of this Sub-Clause are deleted and substituted with the following:
(a) the Contract Agreement;
(b) the Letter of Acceptance;
(c) the Letter of Bid;
(d) the Particular Conditions Part A - Contract Data;
(e) the Particular Conditions Part B - SpecialProvisions;
(f) the General Conditions;
(g) the Specification Part A - SpecificProvisions;
(h) the Specification Part B- Technical Provisions;
(i) the Drawings;
(j) the completed Schedules to Bid includingBillof Quantities;
(k) the JV Undertaking (if the Contractor is a JV); and
(l) any other documents forming part of the Contract.
The addenda/corrigenda, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

1.6 Contract Agreement

In the last line of the 1st paragraph the text "shall be borne by the Employer" is substituted by "shall be reimbursed by the Employer to the Contractor".

3.1 The Engineer

In sub-paragraph (a) the text "as defined in the Pakistan Engineering Council Act, 1975 (Act No.V of 1976)" are added after the words "professional engineer".

3.2 Engineer's Duties and Authority

The Engineer shall obtain the consent in writing of the Employer before taking action under the following Sub-Clauses of these Conditions:
(a) Consenting to the subcontracting of any part of the Works under Sub-Clause 5.1 [Subcontractors]
(b) Any action under Sub-Clauses 8.9 [Employer's Suspension] and 8.12 [Prolonged Suspension]
(c) Issuance of "Taking Over Certificate" under Sub-Clause 10.1 [Taking Over the Works and Sections].
(d) Issuing the "Performance Certificate" under Sub-Clause 11.9 [Performance Certificate].
(e) Sub-Clause 13.1 [Right to Vary]: instructing a Variation, except;
(i) in an emergency situation as determined by the Engineer, or
(ii) if such a Variation would increase the Accepted Contract Amount by less than the percentage specified in the Contract Data.
(f) Sub-Clause 13.3 [Variation Procedure]: approving a proposal for Variation submitted by the Contractor in accordance with Sub-Clause 13.3.2 [Variation by Request for Proposal] or 13.2 [Value Engineering].
(g) Certifying release of second half of the Retention Money under Sub-Clause 14.9 [Release of Retention Money].
(h) Issuing Final Payment Certificate under Sub-Clause 14.13 [Issue of FPC].
(i)
*[insert Sub-Clause number (not Sub-Clause 3.7 [Agreement or Determination]
Any such requirement shall not be applied to any action by the Engineer under Sub-Clause 3.7 [Agreement or Determination], as stated in Sub-Clause 3.2 [Engineer's Duties and Authority] of the General Conditions.
Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility 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, despite the absence of approval of the Employer, 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 13 and shall notify the Contractor accordingly, with a copy to the Employer.
Following is added after the words "the Employer's consent is required" in 4th paragraph:
"stating that the Employer's consent has been obtained for that specified authority"

4.2 Performance Security

4.2.1 Contractor's Obligations
The entity issuing the Performance Security and its form shall be as under:
The Performance Security shall be, at the option of the Contractor,issuedin the prescribed form included in the Bidding Documents,by(a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c)an Insurance Companylisted in the Contract Data and rated by PACRA/VIS ofratingas provided in Table below:
Accepted Contract Amount (In Eq. PKR million) Minimum Rating of Insurance Companies
Up to 1000 A (+)
1001 to no limit AA
In case of Joint Venture, the Performance Security shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.
Following paragraph is added at the end of this Sub-Clause:
"The amount of Performance Security shall be reducedto 50%following issue of the Taking-Over Certificate for the whole of the Works under Clause 10 of Conditions of Contract."

4.3 Contractor's Representative

In second paragraphthe text "professional engineer as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976) (having temporary licence in case of foreign engineer under Section 12 of the Pakistan

Engineering Council Act, 1975 (Act No. V of 1976)" are added after the words "qualified, experienced".
In the 3rd paragraph the words "28 days" are substituted by "14 days". In 2nd line of 4thparagraph the text "or appoint a replacement" is substituted by "except appointment of a suitable temporary replacement is deployed at the Site"

4.4 Contractor's Documents

4.4.2 As-Built Records
First paragraph is deleted and the text in the last paragraph is substituted with the following:
"The Contractor shall furnish to the Engineer 6 copies, one reproducible and one electronic copy(provided the Engineer has made available to the Contractor editable form of the Drawings)of all Drawings amended to conform to the Works as built.In case the Engineer does not make available to the Contractor editable form of the Drawings, the Contractor shall furnish to the Engineer as-built data for incorporation in the Drawings. Upon receipt of PDF versions of the as-built drawings prepared by the Engineer, the Contractor shall furnish to the Engineer 6copies and one reproducible of these Drawings.
The price of such Drawings shall be deemed to be included in the Contract Price."
Following Sub-Clause is added:
4.4.4 ShopDrawings
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 exceed 21 days and be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and the Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

4.8 Health and Safety Obligations

The following text is added at the end ofthis Sub-Clause:
In the event of work being carried out outside the normal working hours and 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.

4.20 Progress Reports

At the end of sub-paragraph (g) the word "and" is deleted and at the end of sub-paragraph (h) the full stop (.) is replaced with ";", and the following new sub-paragraphs are added as:
(i) planned programme for the execution of the Works for next 56 days to enable the Engineer to determine its programme of inspection and testing;
(j) monthly summery of daily job record indicating weather conditions, deployment of Contractor's Equipment, labour employment, local material procurement and material import, if any; and
(k) salient contractual and project information.

5.1 Subcontractors

Add the following text at the end of paragraph (ii):
"underSchedule to Bid"
The following is added at the end of the last paragraph of Sub-Clause 5.1:
"All subcontracts relating to the Works shall include provisions which entitle the Employer to require the subcontract to be assigned to the Employer under sub-paragraph (a) of Sub-Clause 15.2.3 [After Termination].
The Contractor shall give reasonable opportunity to contractors from Islamic Republic of Pakistan for subcontracts for the Works, and endeavour to employ such contractors as Subcontractors."

5.2 Nominated Subcontractors

5.2.2 Objection to Nomination
In sub-paragraph (c), “and” is deleted from the end of (i);
“.” at the end of (ii) is replaced with: “, and”.
The following is then added as (iii):
“(iii) be paid only if and when the Contractor has received from the Employer payments for sums due under the Subcontract referred to under Sub-Clause 5.2.3 [Payment to nominated Subcontractors].”

6.1 Engagement of Staff and Labour

The following paragraph is added at the end of the Sub-Clause:
“The Contractor shall, to the extent practicable and reasonable, employ staff (not less than 50%) and labour (not less than 85%) with appropriate qualifications and experience from sources within the Islamic Republic of Pakistan.”

6.7 Health and Safety of Personnel

The existing text is substituted with the following:
“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 authorize 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 also provide all other medical services and appoint a health and safety officer at Site if stated in the Specifications. In case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.”

6.8 Contractor’s Superintendence

Insert at the end of sub-paragraph (a) of this Sub-Clause:
"or, if not, the Contractor shall make competent interpreters available during all working hours, in a number sufficient for those persons to properly perform their superintendence duties"
The following text is added at the end of this Sub-Clause:
“The Contractor’s authorized representative and his other engineers working at site shall possess valid registration with the Pakistan Engineering Council.
The Contractor’s authorized representative at Site shall be authorized to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract.”

6.12 Key Personnel

The following is inserted at the end of the last paragraph:
“If any of the Key Personnel are not fluent in this language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.”
The following Sub-Clauses 6.13 to 6.26 are added at the end of Sub-Clause 6.12:

6.13 Foreign Personnel

The Contractor may bring in to the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required residence visas and work permits. The Employer will, if requested by the Contractor, use all reasonable endeavours in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national, or government permission required for bringing in the Contractor’s personnel.

The Contractor shall be responsible for the return of these personnel to the place where they were recruited or to their domicile. In the event of the death in the Country of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

6.14 Supply of Foodstuffs

The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

6.15 Supply of Water

The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

6.16 Measures against Insect and Pest Nuisance

The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

6.17 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Laws of the Country, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal thereto by Contractor's Personnel.

6.18 Arms and Ammunition

The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.

6.19 Festivals and Religious Customs

The Contractor shall respect the Country's recognized festivals, days of rest and religious or other customs.

6.20 Funeral Arrangements

The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the Works.

6.21 Forced Labour

The Contractor, including its Subcontractors, shall not employ or engage forced labour which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labour, such as indentured labour, bonded labour or similar labour-contracting arrangements.

6.22 Child Labour

The Contractor, including its Subcontractors, shall not employ or engage child labour in accordance with relevant law(s) in force in Islamic Republic of Pakistan.

6.23 Employment Records of Workers

The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [Contractor's Records].

6.24 Workers' Organizations

The Contractor shall comply with the relevant labour laws of Pakistan which recognize workers' rights to form and to join workers' organizations/Trade Union of their choosing and to bargain collectively without interference.

6.25 Non-Discrimination and Equal Opportunity

The Contractor shall not make decisions relating to the employment or treatment of Contractor's Personnel on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices.
Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Contractor shall provide protection and assistance as necessary to ensure nondiscrimination and equal opportunity, including for specific groups such as women, persons with disabilities, migrant workers and children (of working age in accordance with Sub-Clause 6.22).

6.26 Epidemics

In the event of any out-break of illness of 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 the purpose of overcoming the same.

7.7 Ownership of Plant and Materials

The following is added before the first paragraph:
"Except as otherwise provided in the Contract,"
The following is added at the end of the Sub-Clause:
"No Plant and/or Materials that is the property of the Employer shallbe removed from the Site. If it becomes necessary to:
(i) remove any item of such Plant from the Site for the purposesof repair, the Contractor shall give a Notice, with reasons, tothe Engineer requesting consent to remove the defective ordamaged item off the Site. This Notice shall clearly identifythe item of defective or damaged Plant, and shall give detailsof: the defect or damage to be repaired; the place to whichdefective or damaged item of Plant is to be taken for repair;the transportation to be used (and insurance cover for suchtransportation); the proposed inspections and testing off theSite; and the planned duration required before the repaireditem of Plant shall be returned to the Site. The Contractorshall also provide any further details that the Employer mayreasonably require; or
(ii) replace any item(s) of such Plant and/or Materials, theContractor shall give a Notice, with reasons, to the Engineerclearly identifying the item(s) of Plant and/or Materials to bereplaced, and giving details of the due date of delivery tothe Site of the replacement item(s).
Where any item of Plant and/or Materials has become the propertyof the Employer under this Sub-Clause before it has been deliveredto the Site, the Contractor shall ensure that such an item is notmoved except for its delivery to the Site.
The Contractor shall indemnify and hold the Employer harmlessagainst and from the consequences of any defect in title orencumbrance or charge (except any reasonable restrictionarising from the intellectual property rights of the manufacturer orproducer) on any item of Plant and/or Materials that has becomethe

property of the Employer under this Sub-Clause."
The following Sub-Clause7.9 is added after Sub Clause 7.8:

7.9 Use of Pakistani Materials and Services

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

8.1 Commencement of Works

The following is added before the first paragraph:
“After signing of the Contract Agreement by both Parties,” and thereafter the word “The” is replaced with the word “the”.

8.5 Extension of Time for Completion

The following is added after paragraph (c):
“for last five years”.
The following Sub-Clause 8.14 is added after Sub-Clause 8.13:

8.14 Incentives For Early Completion

If Contract Data does not state applicability of incentives for early completion, this Sub-Clause shall not apply.
The Contractor shall be entitled subject to Sub-Clause 20.2 [Claims for Payment and/or EOT] to bonus payment if the Works and/or each Section is completed earlier than the Time for Completion for the Works or Section (as the case may be). The amount of bonus for early completion of the Works and/or each Section shall be upto a limit and at a rate to 50% of the relevant limit and rate of delay damages prescribed in Contract Data and shall be paid for every day which shall elapse between the relevant Date of Completion of the Works or Section and the relevant Time for Completion.
For the purposes of calculating any bonus payment, the applicableTime for Completion stated in the Contract Data is fixed and noadjustments of this time by reason of granting an EOT will beallowed.
The following Sub-Clause 11.12 is added after Sub-Clause 11.11:

11.12 Supervisory Assistance During DNP

If provided under the Schedule of Prices, the Contractor shall provide supervisory assistance to the Employer during the DNP for the Works. Such supervisory assistance shall be as described in the Specification for the purpose of supporting the Employer's operation and maintenance of the Plant for the period specified in the Schedule of Prices after the Date of Completion.

12.2 Method of Measurement

The following paragraph is added at the end of the Sub-Clause:
“Summary of measured quantity for payment shall be delineated item-wise under four headsnamely; “Schedule of Prices Quantity”, “Quantity Executed To-date”, “Quantity Certified Previously” and “Net Quantity Executed under this Certificate”.

12.3 Valuation of the Works

The following text is added at the end of fifth paragraph of the Sub-Clause:
“Sum of overhead charges and profit for sub-paragraph (a) shall be Twenty Five percent (25%)”.

13.4 Provisional Sums

The following paragraph is inserted as the penultimate paragraph:
“The Provisional Sum shall be used to cover the Employer’s share of the DAAB members’ fees and expenses, in accordance with Clause 21. No prior instruction of the Engineer shall be required with respect to the work of the DAAB. The Contractor shall submit the DAAB members’ invoices and the satisfactory evidence of having paid 100% of such invoices as part of the substantiation of those Statements submitted under Sub-Clause 14.3.

13.6 Adjustments for Changes in Laws

The following paragraphsare added at the end of the Sub-Clause:
“Notwithstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the Table of Adjustment Data in accordance with the provisions of Sub-Clause 13.7 [Adjustments for Changes in Cost].”

14.1 The Contract Price

The following is added at the end of the Sub-Clause:
“Notwithstanding the provisions of subparagraph (b), Contractor's Equipment, including essential spare parts, imported by the Contractor for the sole purpose of executing the Contract shall be temporarily exempt from the payment of import duties and taxes upon initial importation, provided the Contractor shall post with the customs authorities at the port of entry an approved re-export bond or bank guarantee, valid until the Time for Completion plus six months, in an amount equal to the full import duties and taxes which would be payable on the assessed imported value of such Contractor's Equipment and spare parts, and callable in the event the Contractor's Equipment is not re-exported from the Country on completion of the Contract. A copy of the bond or bank guarantee endorsed by the customs authorities shall be provided by the Contractor to the Employer upon the importation of individual items of Contractor's Equipment and spare parts. Upon re-export of individual items of Contractor's Equipment or spare parts, or upon the completion of the Contract, the Contractor shall prepare, for approval by the customs authorities, an assessment of the residual value of the Contractor's Equipment and spare part to be re-exported, based on the depreciation scale(s) and other criteria used by the customs authorities for such purposes under the provisions of the applicable Laws. Import duties and taxes shall be due and payable to the customs authorities by the Contractor on (a) the difference between the initial imported value and the residual value of the Contractor's Equipment and spare parts to re-exported; and (b) on the initial imported value of the Contractor's Equipment and spare parts remaining in the Country after completion of the Contract. Upon payment of such dues within 28 days of being invoiced, the bond or bank guarantee shall be reduced or released accordingly; otherwise the security shall be called in the full amount remaining.”
[The Employer may change or delete this Sub-Clause as per Project requirements]

14.2 Advance Payment

14.2.1 Advance Payment Guarantee
The entity issuing the Advance PaymentGuaranteeand its form shall be as under:
The Advance PaymentGuarantee shall be in the form of Guarantee issued by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistanor (c)an Insurance Companylisted in the Contract Data and rated by PACRA/VIS ofrating as provided in Table below:
Accepted Contract Amount (In Eq. million PKR) Minimum Rating of Insurance Companies
Up to 1000 A (+)
1001 to no limit AA
In case of Joint Venture, the Advance PaymentGuarantee(s)shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.

14.6 Issue of IPC

14.6.1 The IPC
In the first line of the 1st paragraph the words “28 days” are substituted by “14 days”.

14.7 Payment

The words “or through crossed cheque in favour of the Contractor or JV partners. The Payment to JV partners shall be made at the request of the Joint Ventures in the ratio of their shares specified by them” are added at the end of the Sub-Clause.

14.8 Delayed Payment

In the first paragraph, third line, the words “compounded monthly” are deleted.
The text of 2nd paragraph is deleted and substituted with the following:
“The Employer shall pay to the Contractor compensation at the rate stated in the Contract Data.”

14.9 Release of Retention Money

The following is added at the end of Sub-Clause 14.9:
“Unless otherwise stated in the Contract, when the Taking-Over Certificate has been issued for the Works and the first half of the Retention Money has been certified for payment by the Engineer, the Contractor shall be entitled to substitute a guarantee, in the form annexed to the Particular Conditions or in another form approved by the Employer and issued by a schedule bank selected by the Contractor, for the second half of the Retention Money. The Contractor shall ensure that the guarantee is in the amounts and currencies of the second half of the Retention Money and is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects, as specified for the Performance Security. On receipt by the Employer of the required guarantee, the Engineer shall certify, and the Employer shall pay the second half of the Retention Money. The release of the second half of the Retention Money against a guarantee shall then be in lieu of the release after the latest of the expiry dates of the Defects Notification Periods. The Employer shall return the guarantee to the Contractor within 21 days after receiving a copy of the Performance Certificate.

If the Performance Security required under Sub-Clause 4.2 is in the form of a demand guarantee, and the amount guaranteed under them when the Taking-Over Certificate is issued is more than half of the Retention Money, then the Retention Money guarantee will not be required. If the amount guaranteed under the Performance Security when the Taking-Over Certificate is issued is less than half of the Retention Money, the Retention Money guarantee will only be required for the difference between half of the Retention Money and the amount guaranteed under the Performance Security.

15.2 Termination for Contractor’s Default

15.2.1 Notice
Following text is added at the end of sub-paragraph (h) of this Sub-Clause:
“For the purposes of this Contract, corrupt and fraudulent practices have been defined in Public Procurement Rules 2004.”
15.2.3 After Termination
The word “and” at the end of sub-paragraph (ii) of paragraph (b) is deleted the following paragraph is added after sub-paragraph (iii):
“(iv) all Employer-Supplied Materials and/or Employer's Equipment madeavailable to the Contractor in accordance with Sub-Clause 2.6 [Employer-Supplied Materials and Employer's Equipment], and”

15.4 Payment after Termination

The following text is added at the end of this Sub-Clause:
“The Employer shall be entitled to sell any of the Contractor’s Equipment, Temporary Works and unused materials and apply the proceeds of sale towards payment of any debt due from the Contractor to the Employer under this Clause including any outstanding payments to the Subcontractors.

16.2 Termination by Contractor

16.2.1 Notice
The sub-paragraph (j) is deleted in its entirety.
At the end of sub-paragraph (i) “; or” is replaced with “.” and at the end of sub-paragraph (h) “;” is replaced with “; or”.
In sub-paragraph (f) “84 days” are replaced with “180 days” and text “for reasons not attributable to the Contractor” is added at the end.

16.3 Contractor’s Obligations After Termination

Sub-paragraph (c) is deleted and replaced with:
"(c) deliver to the Engineer all Employer-Supplied Materials and/orEmployer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [Employer-Supplied Materials and Employer’s Equipment]; and
(d) remove all other Goods from the Site, except as necessary for safety,and leave the Site."

17.1 Responsibility for Care of the Works

After the two instances of “Goods” in the last paragraph, the words “Employer-Supplied Materials and/orEmployer's Equipment” are added.
The following Sub-Clause 17.7 is added after Sub-Clause 17.6:

17.7 Use of Employer’s Accommodation/Facilities

The Contractor shall take full responsibility for the care of the items of the Employer’s facilities and/or accommodation, if any, as detailed in the Specification, from the date of use and/or occupation by the Contractor until the date on which such use and/or occupation is re-vested in the Employer.
If any loss or damage happens to any of the above items during a time while the Contractor is responsible for its care, arising from any cause other than a cause for which the Employer is responsible or liable, the Contractor shall promptly rectify the loss or damage at the Contractor’s risk and cost.

18.1 Exceptional Events

The words “or disorder” are replaced with “disorder or sabotage” in sub-paragraph (c) of the Clause.

18.4 Consequences of an Exceptional Event

The following is added at the end of sub-paragraph (b) after deleting the “.”:
“, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Exceptional Events, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 19.2 [Insurance to be provided by the Contractor].”

18.5 Optional Termination

In sub-paragraph (c), the words “and necessarily” areadded after the words “was reasonably”.

19.1 General Requirements

Following text is added at the end of first paragraph:
“The Contractor shall immediately after the date of the Letter of Acceptance submit the draft of insurance policies for the Employer’s consent.”
Following text is added at the end of third paragraph:
“The Contractor shall, within the respective periods stated in the Contract Data submit to the Engineer and the Employer a) evidence that the insurances described in this Clause have been effected, and b) copies of policies of the insurances described in Sub-Clauses 19.2.1, 19.2.4 and 19.2.5.”

19.2 Insurance to be provided by the Contractor

19.2.5 Injury to employees
The words “sickness, disease” are deleted in the third line of first paragraph.

The following Sub-Clause is added after Sub-Clause 19.2.6:
19.2.7 Insurance Company
“The Contractor shall be obliged to place all insurances described in this Clause with insurers listed in the Contract Data and rated byPACRA/VISofrating as provided in Table below:

Accepted Contract Amount (In Eq. million PKR) Minimum Rating of Insurance Companies
Up to 1000 A (+)
1001 to no limit AA

21.6 Arbitration

The word “international” is deleted in the sixth line of first paragraph. The text of sub-paragraph (a) is substituted with the following:
“the Dispute shall be finally settled under the Rules of Arbitration, specified in the Contract Data;”
The following Clauses are added after Clause 21

22 Custom Duty

[Employer may incorporate provisions where applicable. However, in order to make the bid more balanced, the payment of Customs Duties should be the responsibility of the Employer.]

23 Taxes

The Contractor, Subcontractors and their employees shall be liable to pay income tax, withholding tax, super tax and other taxes on income arising out of the Contract. The rates and prices as stated in the contract shall be deemed to cover all such taxes.

24 Integrity Part

If it is found and established at any stage that the Contractor or any of his Subcontractors, agents or servants have violated or involved in violation of the Integrity Pact signed by the Contractor 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, agent 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, agent or servants.
The termination under sub-paragraph(b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clause 15.1 to 15.4 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the Employer under sub-paragraph(a) and (c) of this Sub-Clause.

12 Disputes Under DAAB Agreement

In the first paragraph, third, fourth and fifth line, the text “under the Rules of Arbitration of the International Chamber of Commerce 2017…….shall apply” is substituted with “under the Arbitration Act 1940 by sole arbitrator appointed by the Managing Director Public Procurement Regulatory Authority or Chairman Pakistan Engineering Council.”

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Bid Securing Declaration

FORM OF BID SECURING DECLARATION

Date:
No.:
Alternative No.: ***P198969***

To: **Gun & Country Club-Islamabad (Guns and Country Club-Islamabad), Secretary Gun & Country Club near Pakistan Sports Board Complex, Islamabad, Islamabad Capital Territory**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid-Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

(a) have withdrawn our Bid during the period of Bid validity specified in the Letter of Bid; or
(b) having been notified of the acceptance of our Bid by the Procuring agency/Employer during the period of Bid validity, (i) fail or refuse to sign the Contract; or (ii) fail or refuse to furnish the Performance Security (or guarantee), if required, in accordance with the ITB.

We understand this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

Name of the Bidder*
Name of the person duly authorized to sign the Bid on behalf of the Bidder** _____
Title of the person signing the Bid _____
Signature of the person named above _____
Date signed _____ day of _____, _____
*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder
**: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]

Contract Form

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ (month) 20_____ between **Gun & Country Club-Islamabad (Guns and Country Club-Islamabad), Secretary Gun & Country Club near Pakistan Sports Board Complex, Islamabad, Islamabad Capital Territory** (hereinafter called the "Employer") of the one part and _____ (hereinafter called the "Contractor") of the other part.

WHEREAS the Employer is desirous that certain Works, viz., **Construction of 100m Shooting Range (*P198969*)** should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnessed as follows:

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

2. The following documents, in the order of priority, 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:

a) This Contract Agreement;
b) The Letter of Acceptance;
c) The Letter of Bid;
d) The Particular Conditions Part A - Contract Data;
e) The Particular Conditions Part B - SpecialProvisions;
f) The General Conditions;
g) The Specifications Part A - SpecificProvisions;
h) The Specifications Part B- Technical Provisions;
i) The Drawings;
j) The Completed Schedules to Bid including Schedule of Prices;
k) the JV Undertaking (if the Contractor is a JV); and
l) [Employer to insert any other documents forming part of the Contract]

The addenda/corrigenda,if any, (Excluding part relating to Instructions to Bidders alongwith Bidding Data) shall be deemed to have been incorporated at the appropriate places in the "Documents forming the Contract".

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)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

DAAB Agreement

[All italicised text and any text within square brackets (except sub-clause headings) in this form of agreement is for use in preparing the form and should be deleted from the final product].

Name and details of the Contract Construction of 100m Shooting Range
_____

This Agreement made the _____day of _____ [month], _____ [year], between

Name and contact details of the Employer **Gun & Country Club-Islamabad (Guns and Country Club-Islamabad), Secretary**
Gun & Country Club near Pakistan Sports Board Complex, Islamabad, Islamabad Capital Territory
+92-347-631-1389
admin@gcclub.org.pk

Name and contact details of the Contractor _____ (name)
_____ (address)
_____ (telephone)
_____(email / other contact details);

Name and contact details of the DAAB Member _____ (name)
_____ (address)
_____ (telephone)
_____(email / other contact details);

("DAAB Agreement")

Whereas:
A. the Employer and the Contractor have entered (or intend to enter) into the Contract;
B. under the Contract, the "DAAB" or "Dispute Avoidance/Adjudication Board" means the sole member or three members (as stated in the Contract Data of the Contract) so named in the Contract, or appointed under Sub-Clause 21.1 [Constitution of the DAAB] or Sub-Clause 21.2 [Failure to Appoint DAAB Members] of the Conditions of Contract;
C. the Employer and the Contractor desire jointly to appoint the above-named DAAB Member to act on the DAAB as:
a. the sole member of the DAAB, and where this is the case, all references to the "Other Members" do not apply; or
b. one of three members / chairman [delete the one which is not applicable] of the DAAB and, where this is the case, the other two persons are:

_____ (name) _____ (name)
_____ (address) _____ (address)
_____(telephone) _____(telephone)
_____(email/ other contact details) _____ (email/other contact details)

the "**Other Members**"; and
D. the DAAB Member accepts this appointment.

The Employer, Contractor and DAAB Member jointly agree as follows:

1. The conditions of this DAAB Agreement comprise:
(a) Clause 21 [Disputes and Arbitration] of the Conditions of Contract, and any other provisions of the Contract that are applicable to the DAAB's Activities; and
(b) the "General Conditions of Dispute Avoidance/Adjudication Agreement", which is appended to the General Conditions of the "Conditions of Contract for Construction" Second Edition 2017 published by FIDIC ("GCs"), as amended and/or added to by the following provisions.
2. [Details of amendments to the GCs, if any. For example:
In the procedural rules annexed to the GCs, Rule _ is deleted and replaced by: " … "]
3. The DAAB Member shall be paid in accordance with Clause 9 of the GCs. The currency of payment shall be _____.
In respect of Sub-Clauses 9.1 and 9.2 of the GCs, the amounts of the DAAB Member's monthly fee and daily fee shall be:
monthly fee_____ per month, and
daily fee of_____ per day
(or as otherwise set under Sub-Clause 9.3 of the GCs).
4. In consideration of the above fees, and other payments to be made to the DAAB Member in accordance with the GCs, the DAAB Member undertakes to act as DAAB Member in accordance with the terms of this DAAB Agreement.
5. The Employer and the Contractor shall be jointly and severally liable for the DAAB Member's fees and other payments to be made to the DAAB Member in accordance with the GCs.
6. This DAAB Agreement shall be governed by the law of _____ (if not stated, the law that governs the Contract under Sub-Clause 1.4 of the Conditions of Contract).

SIGNED by:_____	SIGNED by:_____	SIGNED by:_____
Print name:_____	Print name:_____	DAAB Member
Title: _____	Title:_____	Title:_____
for and on behalf of the Employer	for and on behalf of the Contractor	
in the presence of	in the presence of	in the presence of
Witness:_____	Witness:_____	Witness:_____
Name:_____	Name:_____	Name:_____
Address:_____	Address:_____	Address:_____
_____	_____	_____
Date:_____	Date:_____	Date:_____

FORM OF MOBILIZATION ADVANCE GUARANTEE/ BOND

Guarantee No._____ Date _____

WHEREAS _____ (hereinafter called the 'Employer')
has entered into a Contract for _____
(Particulars of Contract)
with _____ (hereinafter called the "Contractor').
AND WHEREAS, the Employer has agreed to advance to the Contractor, at the Contractor's request, an amount of Pak Rupees _____ (PKR _____) which amount shall be advanced to the Contractor as per provisions of the Contract.
AND WHEREAS, the Employer has asked the Contractor to furnish Guarantee to secure the mobilization advance for the performance of his obligations under the said Contract.
AND WHEREAS, _____

(hereinafter called the "Guarantor") at the request of the Contractor and in consideration of theEmployer agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.
NOW, THEREFORE, the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails and commits default in fulfilment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the Employer for payment not exceeding the aforementioned amount.
Notice in writing of any default,on the part of the Contractor, of which the Employer at his discretion of making decision, shall be given by the Employer to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.
This Guarantee shall remain in force until the advance is fully adjusted against payments from the Interim Payment Certificates of the Contractor or until _____whichever is earlier.
(Date)
The Guarantor's liability under this Guarantee shall not in any case exceed the sum of
PKR _____ (PakRupees _____).
This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made to the Contractor is fully adjusted against paymentsfrom Interim Payment Certificates of the Contractor provided that the Guarantor

agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted.

Guarantor
(Scheduled Bank/ Insurance Company)

Signature _____
Name _____
Title _____

WITNESS:

1. _____
_____
Corporate Secretary (Seal) Corporate Guarantor (Seal)

2. _____
_____
Name, Title & Address

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Retention Money Security
Demand Guarantee

_____ [Guarantor letterhead or SWIFT identifier code]
Beneficiary: _____ [Insert name and Address of Employer]
Date: _____[Insert date of issue]
RETENTION MONEY GUARANTEE No.: [Insert guarantee reference number]
Guarantor: [Insert name and address of place of issue, unless indicated in the letterhead]

We have been informed that _____ [insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture] (hereinafter called "the Contractor") has entered into Contract No. _____ [insert reference number of the contract] dated _____ with the Employer, for the execution of _____ [insert name of contract and brief description of Works] (hereinafter called "the Contract").
Furthermore, we understand that, according to the conditions of the Contract, the Employer retains moneys up to the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, payment of [insert the second half of the Retention Money orifthe amount guaranteed under the Performance Guarantee when the Taking-Over Certificate is issued is less than half of the Retention Money, the difference between half of the Retention Money and the amount guaranteed under the Performance Security and, if required, the ES Performance Security] is to be made against a Retention Money guarantee.
At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ [insert amount in figures] () [amount in words] upon receipt by us of the Employer's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without your needing to prove or show grounds for your demand or the sum specified therein.
A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Employer's bank stating that the second half of the Retention Money as referred to above has been credited to the contractor on its account number _____ at _____ [insert name and address of Contractor's bank].
This guarantee shall expire no later than the …. day of ……, 2…, and any demand for payment under it must be received by us at the office indicated above on or before that date.

_____
[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

Integrity Pact

Integrity Pact

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

Contract Number: Contract Value: Contract Title:

Dated:

[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 or any administrative subdivision or agency thereof or any other entity owned or controlled by it (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, fee 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 consultations 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, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to 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 time 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 Employer: …… Name of Bidder/Contractor: ……
Signature: …… Signature: …….
[Seal] [Seal]

Performance Guarantee Form

FORM OF PERFORMANCE SECURITY

Guarantee No._____
Executed on _____
Expiry date _____

Name of Guarantor with address:
_____

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 **Gun & Country Club-Islamabad (Guns and Country Club-Islamabad), Secretary Gun & Country Club near Pakistan Sports Board Complex, Islamabad, Islamabad Capital Territory** (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 **Construction of 100m Shooting Range** (**P198969**)
_____ (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 Clause11, Defects After Taking Over, 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 defense 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 decide, 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
(Schedule Bank/ Insurance Company)
Signature: _____
Name: _____
Title: _____

Corporate Guarantor (Seal)

WITNESS:

1.
_____
_____

2.

_____
_____
Name, Title & Address

Annexure

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Bidding Documents

Bidding Documents

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Bidding Documents** (page number: 136)

Specifications (Volume II)

Specifications: - Part A – Specific Provisions; - Part B – Technical Provisions.

Information (Read-Only)

See Form Under Additional Forms and Documents: **Specifications (Volume II)** (page number: 281)

Bid Drawings

Volume – III-A • Bid Drawings.

Information (Read-Only)

See Form Under Additional Forms and Documents: **Bid Drawings** (page number: 405)

Miscellaneous Details

Miscellaneous Details (Volume III B)

Information (Read-Only)

See Form Under Additional Forms and Documents: **Miscellaneous Details** (page number: 427)

Financial Bid

Volume – IV

• Letter of Financial Bid;

• Preamble to Bill of Quantities;

• Bill of Quantities

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Financial Bid** (page number: 437)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Procurement Forms

Past Construction Experiences

See Form Under Additional Forms and Documents: **Past Construction Experiences** (page number: 466)

Contractor's Key Personnel Representative and Their Schedules

See Form Under Additional Forms and Documents: **Contractor's Key Personnel Representative and Their Schedules** (page number: 472)

Financial Resources

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Past Experience and Completed Contracts

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 477)

Historical Contract Non-Performance, and Pending Litigation and Litigation History

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 478)

Current Contracts and Their Progress

See Form Under Additional Forms and Documents: **Current Contracts and Their Progress** (page number: 480)

Financial Capacity and Net Worth Evaluation Form

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 481)

Average Annual Turnover

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 483)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

GUN & COUNTRY CLUB, ISLAMABAD

CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

TECHNICAL BID

BIDDING DOCUMENT
VOLUME – I

OCTOBER, 2026

National Engineering Services Pakistan (Pvt) Limited
NESPAK House Sector G-5/2, Islamabad, Pakistan
Phone: +92-51-9221910 - 13 Fax: +92-51-9221914
Email: Islamabad@nespak.com.pk
http://www.nespak.com.pk

SECTION I: INVITATION FOR BIDS

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GUN & COUNTRY CLUB, ISLAMABAD

CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

Invitation For Bids

Date: ……..

1. This Invitation for Bids follows the Procurement Notice (PN) or Procurement Advertisement (PA) No. ---------- for the subject Project/Procurement which appeared in [*insert media*] ---------- vide dated [*insert dates of issue of PN/PA*] ---------- and on EPADS.

2. The Procuring Agency/Employer has reserved the funds for the procurement planned during the financial year 2026-27. It is intended that part of the proceeds of the funds will be used to cover eligible payment under the contract for the Construction of 100 Meter Shooting Range at Gun & Country Club, Islamabad.

3. Gun & Country Club, Islamabad now invites bids from eligible bidders for the subject Contract.

4. The bidding shall be conducted in line with the procedure of the Rule 27(b) Single Stage–two envelop procedure prescribed under Public Procurement Rules 2026, e-Pak Procurement Regulations, 2023 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority (from time to time), and is open to all potential bidders registered in the EPADS.

5. All bids must be accompanied by a Bid Security at the option of the bidder, in the form of Call Deposit Receipt (CDR)/ Pay Order or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan in favor of the Procuring Agency/Employer in the amount of **PKR. 2 million**.

6. The electronic bids prepared in accordance with the instructions prescribed in the electronic bidding documents must be submitted through EPADS on or before *[mention bid closing date and time]* ----------. Electronic bids will be opened by using EPADS on the same day at *[mention bid opening time at least 30 minutes after bid closing time].*

7. A Pre-Bid meeting will be held in the office of _____ on _____ 2026 at 1100 hrs.

8. Gun & Country Club, Islamabad (GCCI) reserves the right to reject all Bids as per Rule 45 of Public Procurement Rules, 2026.

Manager Administration
Gun & Country Club, Islamabad

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SECTION II: INSTRUCTION TO BIDDERS (ITBs)

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A. INTRODUCTION

1. Scope of Bid	1.1	The Procuring agency/Employer (PA), as indicated in the **Bid Data Sheet** (BDS) invites Bids for the execution of Works as specified in the BDS and **Section V- Works Requirements**. The name, identification, and number of lots (contracts) of this National/ International Competitive Bidding process are specified in the BDS.
2. Source of Funds	2.1	Source of funds as referred in Bid Data Sheet.
3. Eligible Bidders	3.1	A bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country**,** or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture or consortium. In the case of a joint venture or consortium, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture or consortium shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture or consortium during the Bidding process, and in case of award of contract, during the execution of contract. *(The limit on the number of members of JV or Consortium may be prescribed in BDS, in accordance with the guidelines issued by the PPRA)*.
	3.2	The appointment of Lead Member in the joint venture or consortium shall be confirmed by submission of a valid Power of Attorney to the Procuring agency/Employer
	3.3	Verifiable copy of the agreement that forms a joint venture or consortium shall be required to be submitted as part of the Bid.
	3.4	Any bid submitted by the joint venture or consortium shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring agency/Employer and in line with any instructions issued by the Authority.
	3.5	The invitation for bids is open to all prospective bidders subject to any provisions of incorporation or licensing by the respective national/ international incorporating agency or statutory body established for that particular trade or business.
	3.6 .	Foreign Bidders must be locally registered with the appropriate national incorporating body or the statutory body, before participating in the national/international competitive

		bidding with the exception of such procurements made by the foreign missions of Pakistan. For such purpose the bidder must have to initiate the registration process before the bid submission and the necessary evidence shall be submitted to the Procuring agency/Employer along with their bid, however, the final award will be subject to the complete registration process.
	3.7	A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidders may be considered to have a conflict of interest with one or more parties in this Bidding process, if they: a) are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring agency/Employer to provide consulting services for the preparation of design or technical specifications of the works that are the subject of the bid; or b) any of its affiliates has been hired (or is proposed to be hired) by the Procuring agency/Employer as Engineer for the Contract implementation; or c) The works to be executed are resulting from or directly related to consulting services for the preparation or implementation of the project that the bidder provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; d) have controlling shareholders in common; or e) receive or have received any direct or indirect subsidy from any of them; or f) have the same legal representative for purposes of this Bid; or g) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the Procuring agency/Employer regarding this Bidding process; or h) Submit more than one bid in this bidding process.
	3.8	A Bidder may be ineligible if – (a) he is declared bankrupt or, in the case of company or firm, insolvent; (b) payments in favor of the bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;

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		(c) legal proceedings are instituted against such bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property; (d) the bidder is convicted, by a final judgment of a Court of Law or relevant Professional Statuary Body, of any offence involving professional conduct; (e) The bidder is debarred/ blacklisted by a national level Procuring agency/Employer and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration. (f) The bidder is blacklisted or debarred by a foreign country, international organization, or other foreign institutions for the period defined by them.
	3.9	Bidders shall provide to the Procuring agency/Employer evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.
	3.10	Bidders shall provide such evidence of their continued eligibility to the satisfaction of the Procuring agency/Employer, as the Procuring agency/Employer shall reasonably request.
	3.11	Bidders shall submit proposal relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract is envisaged.
4. Eligible Material and Equipment	4.1	All the material and equipment to be mobilized under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such materials and equipment. For this purpose, ineligible countries are stated in the section-IV titled as “Eligible Countries”.
	4.2	For purposes of this Clause, “origin” means the place where the material, equipment is produced, manufactured, or processed, or through manufacture, procession, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components or the place from where the services are/to be supplied.
	4.3	The nationality of the bidder shall not determine the origin of the material and equipment.
	4.4	To establish the eligibility of the material and equipment, Bidders shall fill the country-of-origin declarations included in the Form of Bid.

5. One Bid per Bidder	5.1	A bidder shall submit only one bid, in the same bidding process, either individually as a bidder or as a member in a joint venture or any similar arrangement.
	5.2	No bidder can be a sub-contractor while submitting a bid individually or as a member of a joint venture in the same bidding process.
6. Cost of Bidding	6.1	The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring agency/Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENTS

7. Contents of Bidding Documents	7.1	The scope of Works, bidding procedures, and terms and conditions of the contract are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents which should be read in conjunction with any addenda issued in accordance with **ITB 9.2** include: **Section I -**Invitation for Bids **Section II** Instructions to Bidders (ITBs) **Section III** Bid Data Sheet (BDS) **Section IV** Eligible Countries **Section V** Works Requirements Technical Specifications & Schedule of Requirements **Section VI** Standard Bidding Forms **Section VII** General Conditions of Contract (GCC) **Section VIII** Special Conditions of Contract (SCC) **Section IX** Contract Forms
	7.2	The number of copies to be completed and submitted with the Bid is specified in the **BDS.**
	7.3	The Procuring agency/Employer is not responsible for the completeness of the bidding documents and their addenda, if they were not obtained directly from the Procuring agency/Employer or the signed pdf version downloaded from the website of the Procuring agency/Employer or the Authority's website or e-Procurement System as the case may be. However, Procuring agency/Employer shall place both the pdf and editable version of the same on its website and Authority's website or e-Procurement System to facilitate the bidder for filling the standard bidding forms.
	7.4	The bidder is expected to examine all instructions, forms, specifications, terms and conditions prescribed in the bidding documents. Failure to furnish all the information required in the bidding documents will be at the bidder's risk and may result in the rejection of his bid.

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8. Clarification of Bidding Document, Pre-bid Meeting	8.1	A prospective bidder requiring any clarification of the bidding document may notify the Procuring agency/Employer in writing or in electronic form that provides record of the contents of communication at the Procuring agency/Employer's address indicated in the **BDS.**
	8.2	The Procuring agency/Employer will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than three (03) days prior to the deadline for the submission of Bids as prescribed in **ITB 24.1.** However, this clause shall not apply in case of alternate methods of procurement.
	8.3	Copies of the Procuring agency/Employer's response will be forwarded to all identified prospective bidders through an identified source of communication, including a description of the inquiry, but without specifying its source. In case of downloading of the bidding documents from the website of Procuring agency/Employer or e-Procurement System, the response of all such queries will also be available on the same platform available at the website.
	8.4	Should the Procuring agency/Employer deem it necessary to amend the bidding documents as a result of a clarification, it shall do so following the procedure as prescribed under **ITB 09.**
	8.5	If indicated **in the BDS**, the bidder's designated representative is invited at the bidder's cost to attend a pre-bid meeting at the place, date and time mentioned in the **BDS**. During this pre-bid meeting, prospective bidders may request clarification of the schedule of requirement, the evaluation criteria or any other aspects of the bidding documents.
	8.6	Minutes of the pre-bid meeting, if applicable, including the text of the questions asked by bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective bidders who have obtained the bidding documents. Any modification to the bidding documents that may become necessary as a result of the pre-bid meeting shall be made by the Procuring agency/Employer exclusively through the use of an Addendum pursuant to **ITB 9.** Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.
	8.7	The bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for

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		preparing the bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the bidder's own expense.
	8.8	The bidder and any of its authorized personnel will be granted permission by the Procuring agency/Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder and its personnel will release and indemnify the Procuring agency/Employer 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 the inspection.
9. Amendment of Bidding Documents	9.1	Before the deadline for submission of bids, the Procuring agency/Employer for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder or pre-bid meeting may modify the bidding documents by issuing addenda.
	9.2	Any addendum issued including the notice of any extension of the deadline shall be part of the bidding documents pursuant to **ITB 7.1** and shall be communicated in a timely manner and on equal opportunity basis. Where notification of such change, addition, modification or deletion becomes essential, such notification shall be made in a manner similar to the original advertisement. *Provided that the bidder who had either already submitted their bid or handed over the bid to the courier prior to the issuance of any such addendum shall have the right to withdraw his already filed bid and submit the revised bid prior to the original or extended bid submission deadline.*
	9.3	To give prospective bidders reasonable time in which to take an addendum/corrigendum into account in preparing their bids, the Procuring agency/Employer may, at its discretion, extend the deadline for the submission of bids: *Provided that the Procuring agency/Employer shall extend the deadline for submission of bid, if such an addendum is issued within last three (03) days of the bid submission deadline.*

C. PREPARATION OF BIDS

10. Language of Bid	10.1	The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the Procuring agency/Employer shall be written in the English language unless specified in the B**DS.** Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate

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		translation of the relevant pages in the English language unless specified in the **BDS**, in which case, for purposes of interpretation of the bidder, the translation shall govern.
11. Documents Establishing Eligibility of Material, Equipment and Works, their Conformity to Bidding Documents	11.1	The bid prepared by the bidder shall constitute the following components: - a) Documentary evidence established in accordance with **ITB 11** that the material, equipment and services to be provided by the Bidder are eligible material, equipment and services, and conform to the Bidding Documents; b) Documentary evidence established in accordance with **ITB 12** that the bidder has been authorized to carry out the Construction works; c) Documentary evidence established in accordance with **ITB 12** that the bidder is eligible and/or qualified for the subject bidding process; d) Form of Bid and Bid Prices completed in accordance with **ITB 14 and 15;** e) Completed schedules as required, including priced Bill of Quantities in accordance with **ITB 13 & 15.** f) Technical Proposal completed in all aspects in accordance with **ITB-17**. g) Bid security or Bid Securing Declaration furnished in accordance with **ITB 19;** h) Alternative bids, if permisible, in accordance with **ITB 20;** i) Duly Notarized Power of Attorney authorizing the signatory of the Bidder to submit the bid**;** and j) Any other document required in the **BDS**.
	11.2	In addition to the requirements, bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement.
	11.3	The bidder shall furnish, as part of its bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the bidding documents for all material, equipment and works which the bidder proposes to execute.
	11.4	The documentary evidence of conformity of the material, equipment and works to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of: a) a detailed description of the work methodology, approach, schedule and resources to be mobilized at site;

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		b) an item-by-item commentary on the Procuring agency/Employer's Technical Specifications demonstrating substantial responsiveness of the material, equipment and works to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications; c) any other procurement specific documentation requirement as stated in the **BDS**.
	11.5	The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation into English shall be attached to the original version.
12. Documents Establishing Eligibility and Qualification of the Bidder	12.1	The bidder shall furnish, as part of its bid, all those documents establishing the bidder's eligibility to participate in the bidding process and/or its qualification to perform the contract if its bid is accepted.
	12.2	The documentary evidence of the bidder's eligibility to bid shall establish to the satisfaction of the Procuring agency/Employer that the bidder, at the time of submission of its bid, is from an eligible country as defined in Section-IV titled as "Eligible Countries".
	12.3	The documentary evidence of the bidder's qualification to perform the contract if its bid is accepted shall establish to the satisfaction of Procuring agency/Employer that: a) The bidder has the financial and technical capability necessary to perform the Contract, meets the qualification criteria specified in Section-V, Evaluation and Qualification Criteria and **BDS**. b) In the case of a bidder not doing business within Pakistan, the bidder is or will be (if awarded the contract) represented by a local bidder (Joint Venture) in accordance with the PEC works bylaws, and in case of award of works such foreign firm is required to participate in the execution of works to carry out its obligations as prescribed in the Conditions of Contract and /or Technical Specifications. c) That the bidder meets the qualification criteria listed in Section-V, Evaluation and Qualification Criteria and **BDS.**
13. Letter of Bid and Schedules	13.1	The Letter of Bid (Technical or Financial as the case may be) and Schedules, including the Bill of Quantities, shall be prepared using the relevant forms furnished in Standard Bid Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under **ITB 22.** All blank spaces shall be filled in with the information requested.

14. Letter of Bid	14.1	The bidder shall fill the Letter of Bid (Technical or Financial as the case may be) furnished in the bidding documents. The Standard Bid Forms must be completed without any alterations to its format and no substitute shall be accepted.
15. Bid Prices	15.1	The bid prices quoted by the bidder in the Standard bid Forms, Bill of Quantities and in the Price Schedules shall conform to the requirements specified below or exclusively mentioned hereafter in the bidding documents.
	15.2	The bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items in the Bill of Quantities and will not be paid for separately by the Procuring agency/Employer.
	15.3	Items not listed in the Price Schedule shall be assumed not to be included in the bid, and provided that the bid is still substantially responsive in their absence or due to their nominal nature, the corresponding average price of the respective item(s) of the remaining substantially responsive bidder(s) shall be construed to be the price of those missing item(s): Provided that: a) where there is only one (substantially) responsive bidder, or b) where there is provision for alternate proposals and the respective items are not listed in the other bids, The Procuring agency/Employer may fix the price of missing items in accordance with market survey, and the same shall be considered as final price.
	15.4	The Bid price to be quoted in the Form of Bid in accordance with **ITB 15.1** shall be the total price of the bid.
	15.5	Unless otherwise specified in the **BDS** and the Contract, the rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract.
	15.6	If so specified in **ITB 1.1**, bids may be invited for individual lots (contracts) or for any combination of lots (packages).
	15.7	Prices quoted by the Bidder shall be fixed during the bidder's performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and shall be rejected, pursuant to **ITB 30,** unless otherwise price adjustment is permissible under Conditions of the Contract.
	15.8	All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date

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		twenty-eight (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 the bidder.
16. Currencies of Bid and Payment	16.1	The currency(ies) of the bid and the currency(ies) of payments shall be as specified in the **BDS.**
	16.2	For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.
	16.3	Bidders shall indicate details of their expected foreign currency requirements in the Bid, if prescribed in the BDS.
	16.4	Bidders may be required by the Procuring agency/Employer to clarify their foreign currency requirements, if prescribed in the BDS and to substantiate that the amounts included in Lump Sum and in the **SCC** are reasonable and responsive to **ITB 16.1**.
17. Documents Comprising the Technical Proposal	17.1	The bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in **Section IV – Standard Bid Forms**, in sufficient detail to demonstrate the adequacy of the bidder's proposal to meet the work requirements and the completion time.
18. Bid Validity Period	18.1	Bids shall remain valid for the period specified in the **BDS** after the bid submission deadline prescribed by the Procuring agency/Employer. A bid valid for a shorter period shall be rejected by the Procuring agency/Employer as non-responsive**.** The period of bid validity will be determined from the complementary bid securing instrument i.e. the expiry period of bid security or bid securing declaration as the case may be.
	18.2	Under exceptional circumstances, prior to the expiration of the initial bid validity period, the Procuring agency/Employer may request the bidders' consent to an extension of the period of validity of their bids only once, for the period not more than the period of initial bid validity. The request and the bidders' responses shall be made in writing or in electronic forms that provide record of the content of communication. The Bid Security provided under **ITB 19** shall also be extended 28 days beyond the deadline of extended bid validity period. A bidder may refuse the request for the extension of his bid without forfeiting his bid security or causing to be executed his Bid Securing Declaration. A bidder agreeing to the request will not be required nor permitted to modify its bid, but will be required

		to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension, and in compliance with **ITB 19** in all respects.
19. Bid Security or Bid Securing Declaration	19.1	Pursuant to **ITB 11.1** unless otherwise specified in the **BDS**, the bidder shall furnish as part of its bid, a Bid Security in form of fixed amount not exceeding five percent of the estimated value of procurement determined by the Procuring agency/Employer and in the amount and currency specified in the **BDS** or Bid Securing Declaration as specified in the **BDS** in the format provided in **Section VI (Standard Bidding Forms)**. In case Procuring agency/Employer is inviting bids in lots / packages, the bidder shall be required to submit his bid security against the respective lot/ package for which he is submitting his bid, which shall not exceed five percent of the estimated value of that particular lot/ package.
	19.2	The Bid Security or Bid Securing Declaration is required to protect the Procuring agency/Employer against the risk of Bidder's conduct before award of the contract to the most advantageous bidder which would warrant the security's forfeiture, pursuant to **ITB 19.9.**
	19.3	The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the **BDS** which shall be in any of the following: a) A bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring agency/Employer and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the bidder; b) A cashier's or certified cheque; or c) Another security as indicated in the **BDS.**
	19.4	The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in **Section VI (Standard Bidding Forms)** or another form approved by the Procuring agency/Employer prior to the bid submission.
	19.5	The Bid Security shall be payable promptly upon written demand by the Procuring agency/Employer in case any of the conditions listed in **ITB 19.9** are invoked.
	19.6	Any bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with **ITB 19.1 or 19.3** shall be rejected by the Procuring agency/Employer and shall be

		declared as non-responsive bid, pursuant to **ITB 30**.
	19.7	Unsuccessful bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the Procuring agency/Employer pursuant to **ITB 18**. The Procuring agency/Employer shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest: (a) The expiry of the Bid Security; (b) The entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Biding documents; (c) The rejection by the Procuring agency/Employer of all Bids; (d) The withdrawal of the bid prior to the deadline for the submission of bids, unless the biding documents stipulate that no such withdrawal is permitted.
	19.8	The successful bidder's Bid Security will be discharged upon the bidder signing the contract pursuant to **ITB 47,** or furnishing the performance security (or guarantee), pursuant to **ITB 48**.
	19.9	The Bid Security may be forfeited or the Bid Securing Declaration executed: a) if a Bidder: i) Withdraws its Bid during the period of Bid Validity as specified by the Procuring agency/Employer, and referred by the bidder on the Form of Bid except as provided for in **ITB 18.2**; or ii) Does not accept the correction of errors pursuant to **ITB 32;** or b) In the case of a successful bidder, if the bidder fails: i) to sign the contract in accordance with **ITB 47**; or ii) to furnish performance security (or guarantee) in accordance with **ITB 48.**
	19.10	In case of Bid Security issued by the foreign bank is allowed by the Procuring agency/Employer, the same should be counter guaranteed by a corresponding bank in Pakistan. Furthermore, in case of joint venture, it should be in the name of Joint venture to ensure joint responsibility.
20. Alternative Bids by Bidders	20.1	Bidders shall submit offers that comply with the requirements of the bidding documents, including the basic bidder's technical design as indicated in the specifications and Bill of Quantities. Alternatives will not be considered, unless specifically allowed for in the **BDS**. If so allowed,

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		ITB 20 shall prevail.
	20.2	When alternative schedule for execution of works is explicitly invited, a statement of that effect will be included in the **BDS** as will the method for evaluating different schedule for execution of works.
	20.3	If so allowed in the **BDS**, bidders wishing to offer technical alternatives to the requirements of the bidding documents must also submit a bid that complies with the requirements of the bidding documents, including the basic technical design as indicated in the specifications. In addition to submitting the basic bid, the bidder shall provide all information necessary for a complete evaluation of the alternative by the Procuring agency/Employer, including technical specifications, breakdown of prices, and other relevant details. Only the technical alternatives, if any, of the Most Advantageous Bidder conforming to the basic technical requirements (without altering the bid price) shall be considered by the Procuring agency/Employer.
21. Withdrawal of Bids	21.1	Before bid submission deadline, any bidder may withdraw, substitute, or modify its bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and the corresponding must accompany the respective written notice.
	21.2	Bids requested to be withdrawn in accordance with **ITB 21.1** shall be returned unopened to the bidders.
22. Format and Signing of Bid	22.1	The Bidder shall prepare an original and the number of copies of the bid as indicated in the **BDS**, clearly marking each **"ORIGINAL"** and **"COPY"** as appropriate. In the event of any discrepancy between them, the original shall prevail: *Provided that except in Single Stage One Envelope Procedure, the bid shall include only the copies of technical proposal.*
	22.2	The original and the copy (ies) of the bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to sign on behalf of the bidder. This authorization shall consist of a written confirmation as specified in the **BDS** and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.

	22.3	Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person(s) authorized for signing the Bid.

D. SUBMISSION OF BIDS

23. Sealing and Marking of Bids	23.1	In case of Single Stage One Envelope Procedure, the bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as **"ORIGINAL"** and **"COPY".** The envelopes shall then be sealed in an outer envelope securely sealed in such a manner that opening and resealing cannot be achieved undetected. **Note:** *The envelopes shall be sealed and marked in accordance with the bidding procedure adopted as referred in Rule-36 of Public Procurement Rules,2004.*
	23.2	The inner and outer envelopes shall: a) be addressed to the Procuring agency/Employer at the address given in the **BDS**; and b) bear the title of the subject procurement or project name, as the case may be as indicated in the **BDS**, the Invitation for Bids (ITB) title and number indicated in the **BDS**, and a statement: **"DO NOT OPEN BEFORE",** to be completed with the time and the date specified in the **BDS**, pursuant to **ITB 24.1.**
	23.3	In case of Single Stage Two Envelope Procedure, The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Proposal and the other Financial Proposal. Both envelopes to be enclosed together in an outer single envelope called the Bid. Each Bidder shall submit his bid as under: a) Bidder shall submit his **TECHNICAL PROPOSAL** and **FINANCIAL PROPOSAL** in separate inner envelopes and enclosed in a single outer envelope. b) **ORIGINAL** and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such. c) The envelopes containing the **ORIGINAL** and copies will be put in one sealed envelope and addressed / identified as given in **ITB 23.2.**
	23.4	The inner and outer envelopes shall: a) be addressed to the Procuring agency/Employer at the address provided in the **BDS**; b) bear the name and identification number of the contract as defined in the **BDS**; and provide a warning not to open before the time and date for bid opening, as specified in the **BDS** pursuant to **ITB 24.1.** c) In addition to the identification required in **ITB 23**

		hereof, the inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to **ITB 25.**
	23.5	If all envelopes are not sealed and marked as required by **ITB 23.2**, **ITB 23.3** and **ITB 23.4** or incorrectly marked, the Procuring agency/Employer will assume no responsibility for the misplacement or premature opening of bid.
24. Deadline for Submission of Bids	24.1	Bids shall be received to the Procuring agency/Employer no later than the date and time specified in the **BDS.**
	24.2	The Procuring agency/Employer may, under exceptional circumstances and at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with **ITB 9**, in which case all rights and obligations of the Procuring agency/Employer and bidders previously subject to the deadline will thereafter be subject to the new deadline.
25. Late Bids	25.1	The Procuring agency/Employer shall not consider for evaluation of any bid that arrives after the deadline for submission of bids, in accordance with **ITB 24**.
	25.2	Any bid received by the Procuring agency/Employer after the deadline for submission of bids shall be declared late, recorded, rejected and returned unopened to the bidder.
26. Substitution and Modification of bids	26.1	A bidder may substitute or modify his bid after it has been submitted, provided that written notice of the substitution or modification of the bid, is received by the Procuring agency/Employer prior to the deadline for submission of bids.
	26.2	Revised bid may be submitted after the substitution or modification made in the original bid in accordance with the provisions referred in **ITB 22.**

E. OPENING AND EVALUATION OF BIDS

27. Opening of Bids	27.1	The Procuring agency/Employer will open all bids, in public, in the presence of bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the bid proceedings at the place, on the date and at the time, specified in the **BDS**. The bidders' representatives present shall sign a attendance sheet as a proof of their attendance.
	27.2	First, envelopes marked **"WITHDRAWAL"** shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the bidder. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening.
	27.3	Second, outer envelopes marked **"SUBSTITUTION**" shall be opened. The inner envelopes containing the Substitution Bid

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		shall be exchanged for the corresponding Original Bid being substituted, which is to be returned to the bidder unopened. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.
	27.4	Next, outer envelopes marked **"MODIFICATION"** shall be opened. No Technical Proposal and/or Financial Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of the bids. Any modification shall be read out along with the Original Bid except in case of Single Stage Two Envelope Procedure where only the Technical Proposal, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Proposal, both Original and Modification, will remain unopened till the prescribed financial bid opening date.
	27.5	Other envelopes holding the bids shall be opened one at a time, in case of Single Stage One Envelope Procedure, the bidders' names, the bid prices, the total amount of each bid and of any alternative bid (if alternatives have been requested or permitted), the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring agency/Employer may consider appropriate, will be announced by the Procurement Evaluation Committee.
	27.6	In case of Single Stage Two Envelope Procedure, the Procuring agency/Employer will open the Technical Proposals in public at the address, date and time specified in the **BDS** in the presence of bidders' designated representatives who choose to attend and other parties with a legitimate interest in the bid proceedings. The Financial Proposals will remain unopened and will be held in custody of the Procuring agency/Employer until the specified time of their opening.
	27.7	The envelopes holding the Technical Proposals shall be opened one at a time, and the following read out and recorded: (a) the name of the bidder; (b) whether there is a modification or substitution; (c) the presence of a Bid Security or Bid Securing Declaration, if required; and (d) Any other details as the Procuring agency/Employer may consider appropriate.
	27.8	Bids not opened and not read out at the bid opening shall not be considered further for evaluation, irrespective of the circumstances.
	27.9	Bidders are advised to send in a representative with the knowledge of the content of the bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information

		by the sent bidder's representative shall indemnify the Procuring agency/Employer against any claim or failure to read out the correct information contained in the bidder's bid.
	27.10	No bid will be rejected at the time of bid opening except for late bids which will be returned unopened to the bidder, pursuant to **ITB 25.**
	27.11	The Procuring agency/Employer shall prepare minutes of the bid opening. The record of the bid opening shall include, as a minimum: the name of the bidder and whether or not there is a withdrawal, substitution or modification, the bid price if applicable and the presence or absence of a Bid Security or Bid Securing Declaration.
	27.12	The bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a bidder's signature on the record shall not invalidate the contents and affect the record. A copy of the record shall be distributed to all the bidders.
	27.13	A copy of the minutes of the bid opening shall be furnished to individual bidders upon request.
	27.14	In case of Single Stage -Two Envelop Bidding Procedure, after the announcement of technical evaluation report, the Procuring agency/Employer, shall at a time within the bid validity period, publicly open the financial proposals of the technically responsive bidder only. The financial proposal of bidders found technically non-responsive shall be returned un-opened to the respective bidders after seven days of the announcement of technical evaluation report, except those aggrieved bidder(s) whose complaints are pending before the Grievance Redressal Committee.
28. Confidentiality	28.1	Information relating to the examination, clarification, evaluation and comparison of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report.
	28.2	Any effort by a bidder to influence the Procuring agency/Employer processing of bids or award decisions may result in the rejection of its bid.
	28.3	Notwithstanding **ITB 28.2** from the time of bid opening to the time of contract award, if any bidder wishes to contact the Procuring agency/Employer on any matter related to the bidding process, it should do so in writing or in electronic forms that provides record of the content of communication.
29. Clarification of Bids	29.1	To assist in the examination, evaluation and comparison of bids, the Procuring agency/Employer may, ask any bidder for a clarification of its bid including breakdown of prices invariably in writing. Any clarification submitted by a bidder that is not in response to a request by the Procuring

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		agency/Employer shall not be considered.
	29.2	The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. No change in the prices or substance of the bid shall be sought, offered, or permitted, except clarification for the correction of arithmetic errors discovered by the Procuring agency/Employer during the evaluation of bids which shall be sought in accordance with **ITB 32**.
	29.3	The alteration or modification in the bid which in any case affect the following parameters will be considered as a change in the substance of a bid: a) evaluation & qualification criteria; b) required scope of work; c) contract price; d) all securities requirements; e) tax requirements; f) terms and conditions of bidding documents. g) change in the ranking of the bidder
	29.4	From the time of bid opening to the time of Contract award if any bidder wishes to contact the Procuring agency/Employer on any matter related to the bid it should do so in writing or in electronic forms that provide record of the content of communication.
30. Preliminary Examination of Bids	30.1	Prior to the detailed evaluation of bids, the Procuring agency/Employer will determine whether each bid: a) meets the eligibility criteria defined in **ITB 3** and **ITB 4**; b) has been prepared as per the format and contents defined by the Procuring agency/Employer in the bidding documents; c) has been properly signed; d) is accompanied by the required securities; and e) is substantially responsive to the requirements of the bidding documents. The Procuring agency/Employer's determination of a bid's substantial responsiveness will be based on the contents of the bid itself.
	30.2	A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one that: - a) affects in any substantial way the scope, quality, or performance of the Works; b) limits in any substantial way, inconsistent with the bidding documents, the Procuring

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		agency/Employer's rights or the bidders' obligations under the Contract; or c) if rectified, would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
	30.3	The Procuring agency/Employer will confirm that the documents and information specified under **ITB 11, 12** and **13** have been provided in the bid. If any of these documents or information is missing, or is not provided in accordance with the Instructions to Bidders, the bid shall be rejected.
	30.4	The Procuring agency/Employer may waive-off any minor informality, nonconformity, or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder. ***Explanation:*** *A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some immaterial defect in a Bid or variation of a bid from the exact requirements of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the works. The Procuring agency/Employer either shall give the bidder an opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the Procuring agency/Employer. Examples of minor informalities or irregularities include failure of a bidder to –* (a) *Submit the number of copies of signed bids required by the invitation;* (b) *Furnish required information concerning the number of its employees;* (c) *the firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.*
	30.5	Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer may request the bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or

		documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the bidder to comply with the request may result in the rejection of its bid.
	30.6	Provided that a Technical Bid is substantially responsive, the Procuring agency/Employer shall rectify quantifiable nonmaterial nonconformities or omissions related to the Financial Proposal. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or nonconforming item or component.
	30.7	If a bid is not substantially responsive, it will be rejected by the Procuring agency/Employer and may not subsequently be evaluated for complete technical responsiveness.
31. Examination of Terms and Conditions; Technical Evaluation	31.1	The Procuring agency/Employer shall examine the bid to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the bidder without any material deviation or reservation. For this purpose: "Deviation" means departure from the requirements specified in the Bidding Document. "Reservation" means setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document.
	31.2	The Procuring agency/Employer shall evaluate the technical aspects of the bid submitted in accordance with **ITB 31,** to confirm that all requirements specified in **Section V – Works Requirement**, **Technical Specifications of** the Bidding Documents have been met without material deviation or reservation.
	31.3	If after the examination of the terms and conditions and the technical evaluation, the Procuring agency/Employer determines that the bid is not substantially responsive in accordance with **ITB 30,** it shall reject the bid.
32. Correction of Arithmetic Errors	32.1	Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: - a) if there is a discrepancy between unit prices and the sub-total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the sub-total price shall be corrected, unless in the opinion of the Procuring agency/Employer there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected; b) if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals

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		shall prevail, and the total shall be corrected; and c) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern. d) Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.
	32.2	The amount stated in the Bid will, be rectified by the Procuring agency/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 amount, its bid shall be rejected after forfeiture of Bid Security or execution of the Bid Securing Declaration, as the case may be, in accordance with **ITB 19.9.**
33. Conversion to Single Currency	33.1	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 from outside the Procuring agency/Employer's country (referred to as the "Foreign Currency Requirements") shall indicate the same in the letter of bid-financial proposal. 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.
	33.2	To facilitate evaluation and comparison, the Procuring agency/Employer will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable. For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.
	33.3	The currency selected for converting bid prices to a common base for the purpose of evaluation, along with the source and date of the exchange rate, are specified in the **BDS**.
34. Evaluation of Bids	34.1	The Procuring agency/Employer shall evaluate and compare

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		only the bids determined to be substantially responsive, pursuant to **ITB 30**.
	34.2	In evaluating the Technical Proposal of each Bid, the Procuring agency/Employer shall use the criteria and methodologies listed in the **BDS** and in terms of works requirement. No other evaluation criteria or methodologies shall be permitted.
	34.3	The Procuring agency/Employer's evaluation of a bid will take into account: a) the bid price, excluding provisional sums and the provision, if any, for contingencies in the summary bill of quantities, but including day work items, where priced competitively; b) price adjustment for correction of arithmetic errors in accordance with **ITB 32.1;** c) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with **ITB 33**;
	34.4	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.
	34.5	If these bidding documents allow bidders to quote separate prices for different lots, and the award to a single bidder of multiple lots, the methodology of evaluation to determine the lowest evaluated lot combinations in the Form of Bid, is specified in the **BDS.**
	34.6	If the bid, which results in the Evaluated Bid Price (Most Advantageous Bid), is seriously unbalanced or front loaded in the opinion of the Employer, 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, taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. **Explanation:** *"Unbalanced" or "front-loaded" bids consist of deliberately submitting bids with artificially high prices or unit rates for the early stages of a construction project, offset by artificially low*

		prices or unit rates for the later stages of the project, to improve the contractor's cash flow.
35. Domestic Preference	35.1	If the **BDS** so specifies, the Procuring agency/Employer will grant a margin of preference to the domestic contractor in line with the rules, regulations, regulatory guides or instructions issued by the Authority from time to time.
36. Determination of Most Advantageous Bid	36.1	The Procuring agency/Employer shall compare the evaluated bids in accordance with the predefined bidding procedure, of all substantially responsive bids to determine the Most Advantageous bidder.
37. Qualification of Bidder	37.1	The Procuring agency/Employer shall determine to its satisfaction whether the bidder is substantially responsive and whose bid is declared as most advantageous bid either continues to meet (if prequalification applies) or meets (if post-qualification applies) the qualifying criteria specified in Evaluation and Qualification Criteria. *Note: In case of International bidding, the parameters for incorporation or licensing within Pakistan may be fulfilled as part of post qualification.*
	37.2	The determination shall be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to **ITB 12**.
	37.3	Prior to contract award, the Procuring agency/Employer will verify that the successful bidder (including each member of a JV) is not blacklisted/debarred. The Procuring agency/Employer will conduct the same verification for each sub-contractor proposed by the successful bidder.
38. Sub-Contractors	38.1	The bidder shall provide details regarding any specialized sub-contractor to the Procuring agency/Employer. In case change of sub-contractors, the bidder shall promptly notify the Procuring agency/Employer and obtain approval for replacement of sub-contractors.

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39. Abnormally Low Financial Bid	39.1	Where the bid price is considered to be abnormally low, the Procuring agency/Employer shall perform price analysis either during determination of Most Advantageous Bid or as a part of the post-qualification process. The following process shall apply: a) The Procuring agency/Employer may reject a bid if the Procuring agency/Employer has determined that the price in combination with other constituent elements of the bid is abnormally low in relation to the subject matter of the procurement (i.e. scope of the procurement or ancillary services) and raises concerns as to the capability and capacity of the respective Bidder to perform that contract; b) Before rejecting an abnormally low bid the Procuring agency/Employer shall request the bidder an explanation of the bid or of those sections which it considers contribute to the bid being abnormally low; take account of the evidence provided in response to a request in writing; and subsequently verify the bid or parts of the bid being abnormally low; c) The decision of the Procuring agency/Employer to reject a bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the bidder concerned; d) The Procuring agency/Employer shall not incur any liability solely by rejecting abnormally bid; and e) An abnormally low bid means, in the light of the Procuring agency/Employer's estimate and of all the bids submitted, the bid appears to be abnormally low by not providing a margin for normal levels of profit. **Guidance for Procuring agency/Employer:** In order to identify the Abnormally Low Bid (ALB) following approaches can be considered to minimize the scope of subjectivity: (i) Comparing the bid price with the cost estimate; (ii) Comparing the bid price with the bids offered by other bidders submitting substantially responsive bids; and (iii) Comparing the bid price with prices paid in similar contracts in the recent past either government- or development partner-funded.
	39.2	The Procuring agency/Employer will determine to its satisfaction whether the bidder that is selected as having submitted the most advantageous bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in **ITB 12**

	39.3	The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to **ITB 12,** as well as such other information as the Procuring agency/Employer deems necessary and appropriate. Factors not included in these bidding documents shall not be used in the evaluation of the bidders' qualifications.
	39.4	Procuring agency/Employer may seek "Certificate for Independent Price Determination" from the bidder and the results of reference checks may be used in determining award of contract. ***Explanation:*** *The Certificate shall be furnished by the bidder. The bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.*
	39.5	An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidder's bid, in which event the Procuring agency/Employer will proceed to the next ranked bidder to make a similar determination of that bidder's capabilities to perform satisfactorily.

F. AWARD OF CONTRACT

40. Criteria of Award	40.1	Subject to **ITB 36** and **37**, the Procuring agency/Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has been declared as Most Advantageous Bidder, provided that such bidder has been determined to be: a) eligible in accordance with the provisions of **ITB 3;** b) is determined to be qualified to perform the Contract satisfactorily; and c) Successful negotiations have been concluded, if any.
41. Negotiations	41.1	The Committee of the Procuring agency/Employer may negotiate with the Most Advantageous Bidder relating to the following areas: (a) a minor alteration to the technical (drawings, design technical specifications) details of the statement of works; (b) Methodology, work plan, staffing in view to streamline the work; (c) a minor amendment to the special conditions of Contract; (d) finalizing payment arrangements; (e) clarifying details that were not apparent or could not be finalized at the time of Bidding;

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	41.2	Where negotiation fails to result into an agreement, the Procuring agency/Employer may invite the next ranked bidder for negotiations. Where negotiations are commenced with the next ranked bidder, the Procuring agency/Employer shall not reopen earlier negotiations.
42. Procuring agency/Employer's Right to reject All Bids	42.1	Notwithstanding **ITB 37**, the Procuring agency/Employer reserves the right to reject all the bids, and to annul the bidding process at any time prior to acceptance of bid, without thereby incurring any liability to the affected bidder(s). However, the Authority (i.e. PPRA) may call from the Procuring agency/Employer the justification of those grounds.
	42.2	Notice of the rejection of all bids shall be given promptly to all bidders that have submitted bids.
	42.3	The Procuring agency/Employer shall upon request communicate to any bidder the grounds for its rejection of its bids, but is not required to justify those grounds.
43. Variations	43.1	The Engineer shall make any variation in the quantity of the Works or any part thereof that may, in his opinion, be necessary and for that purpose, or if for any other reason it shall, in his opinion, be appropriate, he shall have the authority to instruct the Contractor to do and the Contractor shall do any of the following: a) increase or decrease the quantity of any work included in the Contract, b) omit any such work (but not if the omitted work is to be carried out by the Employer or by another contractor), c) change the character or quality or kind of any such work, d) change the levels, lines, position and dimensions of any part of the Works, e) execute additional work of any kind necessary for the completion of the Works, or f) change any specified sequence or timing of construction of any part of the Works. No such variation shall in any way vitiate or invalidate the Contract, but the effect, if any, of all such variations shall be valued in accordance with **ITB 15**. Provided that where the issue of an instruction to vary the Works is necessitated by some default of or breach of contract by the Contractor or for which he is responsible, any additional cost attributable to such default shall be borne by the Contractor.
44. Instructions for variations	44.1	The Contractor shall not make any such variation without an instruction of the Engineer. Provided that no instruction shall be required for increase or decrease in the quantity of any work where such increase or decrease is not the result of an instruction given under this Clause, but is the result of the

		quantities exceeding or being less than those stated in the Bill of Quantities.
45. Valuation of Variations	45.1	All variations and any additions to the Contract Price which are required to be determined in accordance with **ITB 15** (for the purposes of this Clause referred to as "varied work"), shall be valued at the rates and prices set out in the Contract if, in the opinion of the Engineer, the same shall be applicable. If the Contract does not contain any rates or prices applicable to the varied work, the rates and prices in the Contract shall be used as the basis for valuation so far as may be reasonable, failing which, after due consultation by the Engineer with the Procuring agency/Employer and the Contractor, suitable rates or prices shall be agreed upon between the Engineer and the Contractor. In the event of disagreement, the Engineer shall fix such rates or prices as are, in his opinion, appropriate and shall notify the Contractor accordingly, with a copy to the Employer. Until such time as rates or prices are agreed or fixed, the Engineer shall determine provisional rates or prices to enable on-account payments to be included in certificates issued in accordance with **ITB 15.**
46. Notification of Award	46.1	Prior to the award of contract, the Procuring agency/Employer shall issue a Final Evaluation Report giving justification for acceptance or rejection of the bids.
	46.2	Where no complaints have been lodged, the bidder whose bid has been accepted will be notified of the award by the Procuring agency/Employer prior to expiration of the bid validity period in writing or through electronic means that provide record of the content of communication. However, the Procuring agency/Employer shall not award any procurement contract atleast for fifteen (15) days after the acceptance of bid. The notification letter (herein after and in the condition of the contract and contract form called “Letter of Acceptance” will specify the sum that the Procuring agency/Employer will pay the successful bidder in consideration for the execution and completion of the works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).
	46.3	The notification of award will constitute the formation of the Contract, subject to the bidder furnishing the Performance Security (or guarantee) in accordance with **ITB 48** and signing of the contract in accordance with **ITB 47.**
	46.4	Upon the successful bidder’s furnishing of the performance security (or guarantee) pursuant to **ITB 48**, the Procuring agency/Employer will promptly notify each unsuccessful bidder, the name of the successful bidder and the Contract amount and will discharge the Bid Security or Bid Securing

		Declaration of the bidder(s) pursuant to **ITB 19**.
47. Signing of Contract	47.1	Promptly after notification of award, Procuring agency/Employer shall send the successful bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.
	47.2	Immediately after the Redressal of grievance by the GRC, and after fulfillment of all conditions precedent of the Contract Form, the successful bidder and the Procuring agency/Employer shall sign the contract.
	47.3	Where no formal signing of a contract is required, work order issued to the bidder shall be construed to be the contract.
48. Performance Security (or Guarantee)	48.1	After the receipt of the Letter of Acceptance, the successful bidder, within the specified time, shall deliver to the Procuring agency/Employer a Performance Guarantee in the amount and in the form stipulated in the **BDS and SCC**, denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.
	48.2	If the Performance Guarantee is provided by the successful bidder and it shall be in the form specified in the **BDS** which shall be in any of the following: (a) certified cheque, cashier's or manager's cheque, or bank draft; (b) irrevocable letter of credit issued by a scheduled bank of Pakistan or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a scheduled bank of Pakistan; (c) bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign bidder, bonded by a foreign bank; or (d) surety bond callable upon demand issued by any reputable surety or insurance company. Any Performance Guarantee submitted shall be enforceable in Pakistan.
	48.3	Failure of the Most Advantageous Bidder to comply with the requirement of **ITB 47** shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or declare blacklisted (in case bid securing declaration is submitted) in which event the Procuring agency/Employer may make the award to the next most advantageous bidder or reinitiate the procurement process afresh (as a case may be).
49. Advance Payment	49.1	Advance payment will be provided to the bidder in percentage and in the manner as agreed by the both parties in terms of Conditions of the Contract.
	49.2	The Procuring agency/Employer will provide an advance payment as stipulated in the Conditions of Contract, subject

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		to a maximum amount, as stated and/or Conditions of the Contract. The advance payment request shall be accompanied by an advance payment security (guarantee) in the form provided in Section X. For the purpose of receiving the advance payment, the bidder shall make and estimate of, and include in its bid, the expenses that will relate to the purchase of equipment, machinery, materials, and on the engagement of labor during the first month beginning with the date of the Procuring agency/Employer's "Notice to Commence" as specified in the **SCC.**
50. General Performance of the Bidders	50.1	The Procuring agency/Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts / works. The Procuring agency/Employer may seek information / report from the previous employer for consideration. However, the Procuring agency/Employer shall incorporate such parameters in the evaluation criteria and accordingly decide the fate of the bid submitted.
51. Corrupt & Fraudulent Practices	51.1	Procuring agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid to engage in any corrupt and fraudulent practices.

G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

52. Constitution of Grievance Redressal	52.1	Procuring agency/Employer shall constitute a Grievance Redressal Committee (GRC) comprising of odd number of persons with proper power and authorization to address the complaint. The GRC shall not have any of the members of Procurement Evaluation Committee. The committee must have one subject specialist depending the nature of the procurement.
53. GRC Procedure	53.1	Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the prequalification or bidding documents found contrary to provision of Procurement Regulatory Framework, and the same shall be addressed by the GRC well before the bid submission deadline.
	53.2	Any bidder feeling aggrieved by any act of the Procuring agency/Employer after the submission of his bid may lodge a written complaint concerning his grievances not later than seven days of the announcement of technical evaluation report and five days after issuance of final evaluation report.
	53.3	In case, the complaint is filed against the technical evaluation report, the GRC shall suspend the procurement proceedings.

	53.4	In case, the complaint is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report: Provided that the complainant may raise the objection on any part of the final evaluation report in case where single stage one envelope bidding procedure is adopted.
	53.5	The GRC, in both the cases shall investigate and decide upon the complaint within ten days of its receipt.
	53.6	Any bidder or the Procuring agency/Employer not satisfied with the decision of the GRC may file Appeal before the Appellate Committee of the Authority on prescribed format after depositing the Prescribed fee.
	53.7	The Committee, upon receipt of the Appeal against the decision of the GRC complete in all respect shall serve notices in writing upon all the parties to Appeal.
	53.8	The committee shall call the record from the concerned Procuring agency/Employer or the GRC as the case may be, and the same shall be provided within prescribed time.
	53.9	The committee may after examination of the relevant record and hearing all the concerned parties, shall decide the complaint within fifteen (15) days of receipt of the Appeal.
	53.10	The decision of the Committee shall be in writing and shall be signed by the Head and each Member of the Committee. The decision of the committee shall be final.

H. MECHANISM OF BLACKLISTING

54. Mechanism of Blacklisting	54.1	The Procuring agency/Employer shall bar for not more than the time prescribed in Rule-19 of the Public Procurement Rules, 2004, from participating in their respective procurement proceedings, bidder or contractor who either: Involved in corrupt and fraudulent practices as defined in Rule-2 of Public Procurement Rules; i) Fails to perform his contractual obligations; and ii) Fails to abide by the id securing declaration;
	54.2	The show cause notice shall contain: (a) precise allegation, against the bidder or contractor; (b) the maximum period for which the Procuring agency/Employer proposes to debar the bidder or contractor from participating in any public procurement of the Procuring agency/Employer; and (c) the statement, if needed, about the intention of the Procuring agency/Employer to make a request to the Authority for debarring the bidder or contractor from participating in public procurements of all the procuring agencies.
	54.3	The Procuring agency/Employer shall give minimum of seven days to the bidder or contractor for submission of written reply of the show cause notice.

	54.4	In case, the bidder or contractor fails to submit written reply within the requisite time, the Procuring agency/Employer may issue notice for personal hearing to the bidder or contractor/ authorize representative of the bidder or contractor and the Procuring agency/Employer shall decide the matter on the basis of available record and personal hearing, if availed.
	54.5	In case the bidder or contractor submits written reply of the show cause notice, the Procuring agency/Employer may decide to file the matter or direct issuance of a notice to the bidder or contractor for personal hearing.
	54.6	The Procuring agency/Employer shall give minimum of seven days to the bidder or contractor for appearance before the designated officer of the Procuring agency/Employer for personal hearing. The designated officer shall decide the matter on the basis of the available record and personal hearing of the bidder or contractor, if availed.
	54.7	The Procuring agency/Employer shall decide the matter within fifteen (15) days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing.
	54.8	The Procuring agency/Employer shall communicate to the bidder or contractor the order of debarring the bidder or contractor from participating in any public procurement with a statement that the bidder or contractor may, within thirty (30) days, prefer a representation against the order before the Authority.
	54.9	Such blacklisting or barring action shall be communicated by the Procuring agency/Employer to the Authority and respective bidder or bidders in the form of decision containing the grounds for such action. The same shall be publicized by the Authority after examining the record whether the procedure defined in blacklisting and debarment mechanism has been adhered to by the Procuring agency/Employer.
	54.10	The bidder may file the review petition before the Review Petition Committee Authority within thirty (30) days of communication of such blacklisting or barring action after depositing the prescribed fee and in accordance with “Procedure of filing and disposal of review petition under Rule-19(3) Regulations, 2021”. The Committee shall evaluate the case and decide within ninety (90) days of filing of review petition.
	54.11	The committee shall serve a notice in writing upon all respondent of the review petition. The notices shall be accompanied by the copies of review petition and all attached documents of the review petition including the decision of the Procuring agency/Employer. The parties may file written

		statements along with essential documents in support of their contentions. The Committee may pass such order on the representation may deem fit.
	54.12	The Authority on the basis of decision made by the committee either may debar a bidder or contractor from participating in any public procurement process of all or some of the procuring agencies for such period as the deemed appropriate or acquit the bidder from the allegations. The decision of the Authority shall be final.

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SECTION III: BID DATA SHEET

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Bid Data Sheet (BDS)

The following specific data for the procurement of works shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITBs). Whenever there is a conflict, the provisions herein shall prevail over those in ITBs.

BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
		A. Introduction
1.	**1.1**	Name of Procuring Agency/Employer: Gun & Country Club, Islamabad The subject of procurement is: Construction of 100 Meter Shooting Range at Gun & Country Club, Islamabad Period for completion of the works: 364 days Commencement date execution of the works: 14 days after signing of Contract. Type of Procurement: National competitive bidding
2.	**2.1**	Financial year for the operations of the Procuring Agency/Employer: 2026-27 & onwards Name of Project: Construction of 100 Meter Shooting Range at Gun & Country Club, Islamabad Name of financing institution: Employer's own funds Name and identification number of the Contract: Not Applicable
3.	**3.1**	Joint Venture: Not allowed. Maximum number of members in the joint venture: Nil
4.	**5.1**	Each bidder shall submit only one bid. Joint venture of firms is not allowed. A bidder who participates in more than one bid (other than alternatives pursuant to Clause IB.20) will be disqualified.

B. Bidding Documents

5.	**7.1**	Delete the text of Sub-Clause 7.1 and substitute with the following: 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. Technical Bid **7.1.1 Volume - I** • **Section I** - Invitation for Bids • **Section II** - Instruction to Bidders (ITBs); • **Section III** - Bidding Data Sheet (BDS); • **Section IV** - Eligible Countries; • **Section V** – Evaluation and Qualification Criteria; • **Section VI** – Works Requirements Technical Specifications & Schedule of Requirements; • **Section VII** – Standard Bidding Forms; • **Section VIII** – General Conditions of Contract (GCC) ; • **Section IX** – Special Conditions of Contract (SCC); - Part A – Contract Data; - Part B- Special Provisions; • **Section X** – Contract Forms **7.1.2 Volume – II** • Specifications: - Part A – Specific Provisions; - Part B – Technical Provisions. **7.1.3 Volume – III-A** • Bid Drawings. **7.1.4 Volume – III-B** • Miscellaneous Details. Financial Bid **7.1.5 Volume – IV** • Letter of Financial Bid; • Preamble to Bill of Quantities; • Bill of Quantities.
6.	**7.2**	Complete Bid duly signed, stamped and scanned shall be submitted online on EPADS v2.0.
7.	**8.1**	The address for clarification of Bidding Documents is; **Manager Administration** Gun and Country Club, Islamabad

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	8.5	Pre-bid meeting venue, time, and date will be as per Invitation for Bids.

C. Preparation of Bids

8.	**10.1**	The Language of all correspondences and documents related to the Bid is: English
9.	**11.1(j)**	In addition to the documents stated in **ITB 11,** the following documents must be included with the Bid: List of documents: Nil
10.	**11.5 (c)**	Other procurement specific documentation requirements are: Nil
11.	**15.2**	**For Scheduled Items**, Bidder Shall quote Premium in the Form of Percentage Above or Below the estimated price put to bid provided in the Summary of Estimates. Prices provided in the estimates against items are complete inclusive value of the finished work without any hidden technical and/ or financial reservations or implications. Bidders shall not modify, change, nor add any footnotes or any conditions to the Estimate. **For Non-Scheduled items**, Bidder 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. Corrections in rates and prices, if any, shall be made by crossing out, initialing, and re-writing.
12.	**15.5**	The bid price shall be adjusted in accordance with Appendix C – Formula for Price Adjustment.
13.	**15.6**	Name of the works: Construction of 100 Meter Shooting Range at Gun & Country Club, Islamabad The identification No.: Not applicable The No. and identification of lots (contracts) comprising this open competitive bid: Not Applicable
14.	**16.1**	The currency of the Bid shall be in Pak Rupees (PKR).
15.	**18.1**	The Bid Validity period shall be 148 days.
16.	**19.1**	The amount of Bid Security shall be PKR 2 Million. The currency of the Bid Security shall be: PKR Original Bid Security shall be submitted at the following address: **Manager Administration** Gun and Country Club, Islamabad

17.	**19.3**	The Bid Security shall be in the form of: Call Deposit Receipt (CDR) / Pay Order or a Bank Guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan in favor of the Employer valid for a period of 176 days from the date of submission/opening of bids.
18.	**19.3 (c)**	Other forms of security are: Not applicable.
19.	**20.1**	Alternative Bids to the requirements of the Bidding Documents will not be permitted.
20.	**20.2**	Not applicable
21.	**22.1**	The Bid prepared in accordance with the instructions in the Bidding documents, must be submitted through **EPADS v2.0**.
22.	**22.2**	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: Written power of Attorney

D. Submission of Bids

23.	**23.1**	Not Applicable.
24.	**23.2**	Not Applicable.
25.	**23.3**	Single Stage Two Envelope Procedure will be used for submission of Bids through EPADS V2.0. The Bidders shall submit separately the technical proposal and the financial proposal.
26.	**23.4 (a)**	Bid shall be submitted through EPADS V2.0.
27.	**23.4 (b)**	Title of the subject Procurement or Project name: Construction of 100 Meter Shooting Range at Gun & Country Club, Islamabad ITB title and No: Not Applicable Time and date for submission: As per Invitation for Bids
28.	**24.1**	The deadline for Bid submission will be as per Invitation for Bids.

E. Opening and Evaluation of Bids

29.	**27.1**	Bids will be opened by using EPADS v2.0.
30.	**32.1**	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: where there is a discrepancy between the quoted amount provided by the bidder in the summary of Estimates and in the Letter of Price Bid, the amount stated in the Form of Bid shall

		govern; and **For Scheduled Items:** (a) where there is a discrepancy between the Premium/amount in figures and in words mentioned in the summary of Estimates, the premium/amount in words shall govern; and (b) where there is a discrepancy between the percentage premium and the total amount quoted by the Bidder by multiplying the percentage premium with the price put to Bid, the value provided as premium shall govern and total amount shall be corrected. **For Non-Scheduled Items:** (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.
31.	**33.2**	The currency that shall be used for Bid evaluation and comparison purposes to convert all Bid prices expressed in various currencies is: PKR The source of exchange rate shall be: Nil The date of exchange rate shall be: Nil
32.	**33.3**	The bids shall be quoted in PKR
33.	**34**	**Evaluation Techniques** Least Cost Based Selection (LCBS): After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (drawings/ design/ technical specifications /requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered highest ranked bid.

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34.	**34.2**	Criteria for evaluating the bids to be used in the evaluation and their evaluation method or reference to the Technical Specifications as mentioned in Section-V Evaluation and Qualification Criteria.
35.	**34.5**	Not Applicable
36.	**35**	Not Applicable
37.	**38.2**	Sub-contracting 25% (twenty-five percent) of the total value of the Contract.
		F. Award of Contract
38.	**48**	The Performance Security (or guarantee) shall be 10% (ten percent) of the Contract Price.
39.	**48**	The Performance Security (or guarantee) shall be in the form of Bank Guarantee either from any Scheduled Bank in Pakistan or from a bank located outside Pakistan duly counter-guaranteed by a Scheduled Bank in Pakistan. The amount of Performance Security shall be reduced to 50% following issue of the Taking-Over Certificate for the whole of the Works under Clause 10 of Conditions of Contract. The cost of complying with requirements of this Sub-Clause shall be borne by the Contractor.

G. Review of Procurement Decisions

40.	**52.1**	In case of grievance, the address of Grievances Committee is: **Convener Grievance Committee,** Gun& Country Club Islamabad
41.	**53.6**	The Address of PPRA to submit a **copy** of appeal: Grievance Redressal Appellate Committee Public Procurement Regulatory Authority 1st Floor, G-5/2, Islamabad, Pakistan Tel: +92-51-9202254
42.	**54.1**	Delete the text of Sub-Clause 54.1 and substitute with the following: The Procuring Agency/Employer shall bar for not more than the time prescribed in Rule-25 of the Public Procurement Rules, 2026, from participating in their respective procurement proceedings, bidder or contractor who either: i. Involved in corrupt and fraudulent practices as defined in Rule-2 of Public Procurement Rules; ii. Fails to perform his contractual obligations; and iii. Fails to abide by the bid securing declaration;
43.	**54.10**	After the text “Procedure of filing and disposal of review petition

		under Rule-19(3) Regulations, 2021" add the text "as per revised schedule notified vide S.R.O. No. 165(I)/2025".

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SECTION IV: ELIGIBLE COUNTRIES

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Section IV. Eligible Countries

All the bidders are allowed to participate in the subject procurement without regard to nationality, except bidders of some nationality, prohibited in accordance with policy of the Federal Government.

Following countries are ineligible to participate in the procurement process:

1. India
2. Israel

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SECTION V: EVALUATION AND QUALIFICATION CRITERIA

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Section V. Evaluation and Qualification Criteria

Qualification of Bidders will be based on the criteria given in succeeding para-A regarding eligibility and mandatory requirements. Only those bidders who would meet the eligibility and mandatory requirements will be evaluated on the basis of criteria given in succeeding para-B regarding the bidder's Experience, Personnel capabilities, Equipment capabilities and Financial soundness.

Sub-contractor's experience and resources shall not be taken into account in determining the applicant's compliance with the qualifying criteria.

The Employer reserves the right to waive minor deviations, if they do not materially affect the capability of the Bidder to perform the Contract.

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A. Eligibility and Mandatory Requirements

Eligibility and Mandatory Requirements			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements and Explanation Notes
				All Parties Combined	Each Member	One Member	
1. Eligibility							
1.1	**Nationality**	Nationality in accordance with **ITB 4.3**	Must meet requirement	N/A	N/A	N/A	Forms ELI 1 and 2, with attachments
1.2	**Conflict of Interest**	No conflicts of interest in accordance with **ITB 3.7**	Must meet requirement	N/A	N/A	N/A	Letter of Bid – Technical Proposal
2. Valid registration with Pakistan Engineering Council (PEC)							
2.1	**Valid registration with Pakistan Engineering Council**	**Category C-4** and at least in Specialization Codes: **CE-09, CE-10 & EE-04**	Must meet requirement	N/A	N/A	N/A	PEC Registration License Specialization Codes: **CE-09, CE-10 & EE-04**
3. Historical Contract Non-Performance							
3.1	**History of Non-Performing Contracts**	Non-performance of a contract did not occur as a result of contractor default for last 15 years.	Must meet requirement	N/A	N/A	N/A	Form CON-2
3.2	**Pending Litigation**	Bidder's financial position and prospective long-term profitability sound according to criteria established in Financial Capabilities below and assuming that all pending litigation will be resolved against the Bidder	Must meet requirement	N/A	N/A	N/A	Form CON – 2
3.3	**Litigation History**	No consistent history of court/ arbitral award decisions against the Bidder since 1st January 2011.	Must meet requirement	N/A	N/A	N/A	Form CON – 2

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Eligibility and Mandatory Requirements			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements and Explanation Notes
				All Parties Combined	Each Member	One Member	
4. No-Blacklisting							
4.1	**No- Blacklisting**	Bidder has never been blacklisted	Must meet requirement	N/A	N/A	N/A	Affidavit on Stamp Paper prepared within the current month of submission of bidding document that the firm has never been blacklisted
5. Registration with Federal Board of Revenue							
5.1	**Income Tax Registration Certificate**	Bidder registration with the Federal Board of Revenue for Income Tax	Must meet requirement	N/A	N/A	N/A	Income Tax Registration Certificate
5.2	**Active Tax Payer (Income Tax)**	Bidder shall be on the active taxpayer's list of the Federal Board of Revenue for Income Tax	Must meet requirement	N/A	N/A	N/A	Record of Active Taxpayer for Income Tax
5.3	**Active Tax Payer (Sales Tax)**	Bidder shall be on the active taxpayer's list of the Federal Board of Revenue for Sales Tax	Must meet requirement	N/A	N/A	N/A	Record of Active Taxpayer for Sales Tax

B. Detailed Qualification Criteria

Only those bidders who successfully meet all the **Eligibility** and **Mandatory Requirements** shall qualify for detailed evaluation, in accordance with the given criteria. The detailed qualification shall be carried out on the basis of the criteria for the different categories and minimum passing marks prescribed hereunder:

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S. No.	Category	Weightage / Marks	Passing Marks (50%)
B.1	Experience	36	18
B.2	Personnel Capabilities	16	8
B.3	Equipment Capabilities	16	8
B.4	Financial Soundness		
B.4.1	Annual Turnover	16	8
B.4.2	Working Capital	16	8
	Total	**100**	**50**

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	**Subject**	**Requirement**	**Single Entity**	**Joint Venture (existing or intended)**			**Submission Requirements and Explanation Notes**
				All Parties Combined	**Each Member**	**Lead Member**	
B.1 Experience		**Max Marks = 36**	**50%**	**N/A**	**N/A**	**N/A**	
B1.1	**Specific Building Experience – Completed Projects**	Experience as constructor in execution of Building Works Projects completed during last ten (10) years. **Max. Marks = 20** • 10 marks will be awarded for each completed project having project cost ≥ Rs. 100M up to maximum of 20 marks • 07 marks will be awarded for					Form. EXP – 4.2 (a) i. The applicants must provide Letter of Award and Taking Over/ Completion Certificate of completed projects. No marks will be given to the projects for which above certificates are not provided. ii. Applicant shall provide complete information of the projects including scope, cost and covered area etc.

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Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements and Explanation Notes
				All Parties Combined	Each Member	Lead Member	
		each completed project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 20 marks • 05 marks will be awarded for each completed project having project cost from Rs. 60M to 79.99M up to maximum of 20 marks. • No marks will be awarded for project having project cost < Rs. 60M.					iii. Proportionate marks on the basis of share in JV agreement will be awarded to each partner, for projects executed as Joint Venture (JV).
B1.2	**Specific Building Experience – In-hand Projects**	Experience as constructor in execution of Building Works Projects of similar nature and volume currently in-hand. **Max. Marks = 16** • 08 marks will be awarded for each in-hand project having project cost ≥ Rs. 100M up to maximum of 16 marks • 06 marks will be awarded for each in-hand project having project cost from Rs. 80M to Rs. 99.99M up to maximum of 16					Form. EXP – 4.2 (b) i. The applicants must provide Award Letter of in-hand projects. No marks will be given to the projects for which above certificate is not provided. ii. Applicant shall provide complete information of the projects including scope, cost and covered area etc. iii. Proportionate marks on the basis of share in JV agreement will be awarded to each partner, for projects executed as Joint Venture (JV).

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Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements and Explanation Notes
				All Parties Combined	Each Member	Lead Member	
		marks. • 04 marks will be awarded for each in-hand project having project cost from Rs. 60M to Rs. 79.99M up to maximum of 16 marks. • No marks will be awarded for project having project cost < Rs. 60M.					
B.2 Personnel Capabilities		**Max Marks = 16**	**50%**	**N/A**	**N/A**	**N/A**	Form PER-1 and PER-2 Provide the following for each personnel, failing which, no marks will be awarded: a. verifiable proof of employment with the bidder of the proposed staff b. detailed CV c. valid PEC Registration for Engineers d. Diploma Certificates of DAE staff
B2.1	**Project Manager**	5 marks will be awarded for B.Sc. Civil Engineer having at least 08 years relevant experience. **Max Marks = 5**					

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Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements and Explanation Notes
				All Parties Combined	Each Member	Lead Member	
B2.2	**Site Engineer**	3 marks will be awarded for B.Sc. Civil Engineer having at least 06 years relevant experience. **Max Marks = 3**					
B2.2	**Associate Engineer (Civil)**	2 marks will be awarded for Associate Engineer having B-Tech / DAE Civil and at least 06 years relevant experience **Max Marks = 2**					
B2.3	**Associate Engineer (E/M)**	2 mark will be awarded for Associate Engineer having B-Tech / DAE (E/M) and at least 06 years relevant experience. **Max Marks = 2**					
B2.4	**Quantity Surveyor (Civil)**	2 mark will be awarded for Quantity Surveyor having B-Tech / DAE Civil and at least 06 years relevant experience. **Max Marks = 2**					
B2.5	**Surveyor**	2 mark will be awarded for Surveyor having DAE/Certificate and at least					

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Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements and Explanation Notes
				All Parties Combined	Each Member	Lead Member	
		08 years relevant experience. **Max Marks = 1**					
B.3 Equipment Capabilities		**Max Marks = 16**	**50%**	**N/A**	**N/A**	**N/A**	Form EQU: (SECTION VI) Proportionate marks will be awarded if minimum number of corresponding equipment is less than minimum required. Provide an undertaking on stamp paper to the effect that the listed equipment is available with the firm and will be made available, as and when required, for the Project.
B3.1	**Concrete Mixer Machine**	Min. Quantity = 02 No. Marks = 02					
B3.2	**Excavator**	Min. Quantity = 01 No. Marks = 02					
B3.3	**Hoist**	Min. Quantity = 02 Set Marks = 02					
B3.4	**Dewatering Pump (3HP)**	Min. Quantity = 01 No. Marks = 01					
B3.5	**Scaffolding**	Min. Quantity = 15,000Rft Marks = 02					
B3.6	**Shuttering**	Min. Quantity = 10,000 Sft. Marks = 02					
B3.7	**Tractor Trolley**	Min. Quantity = 02 No.					

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Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements and Explanation Notes
				All Parties Combined	Each Member	Lead Member	
		Marks = 02					
B3.8	**Steel Cutting / Bending Machine**	Min. Quantity = 01 No. Marks = 01					
B3.9	**Generator Set (10 KVA)**	Min. Quantity = 01 No. Marks = 01					
B3.10	**Total Station**	Min. Quantity = 01 No. Marks = 01					
B.4 Financial Soundness		**Max Marks** **Annual Turn Over = 16** **Working Capital = 16**	**50%**	**NA**	**NA**	**NA**	FORM FIN - 3.1, FIN - 3.2 and FIN 3.3 The bidder shall submit Audited financial statements for the last three years duly certified by the Chartered Accounts Firms shall submit copies of Credit Line Facility in specific name of the Project. No marks shall be awarded, if the audited financial statements for last 3 years and credit line facility are not provided.
B4.1	**Annual Turnover**	The minimum annual volume of construction work (Annual Turn-Over) during any of the last three years: **Max Marks = 16** • 8 Marks will be awarded if the Turnover is in range of PKR. 100 million to PKR. 150 million					

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Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements and Explanation Notes
				All Parties Combined	Each Member	Lead Member	
		• 16 Marks will be awarded if the Turnover is more than PKR. 150 million.					
B4.2	**Working Capital**	The amount of Working Capital (Current Assets – Current Liabilities) & credit facilities (in specific name of the Project), net of other construction commitments of the construction, shall be as under: **Max Marks = 16** • 8 Marks will be awarded if the Working Capital & Credit Facility is in range of PKR. 30 million to PKR. 40 million • 16 Marks will be awarded if the Working Capital & Credit Facility is more than PKR. 40 million.					

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SECTION VI: WORKS REQUIREMENT, TECHNICAL SPECIFICATIONS, DRAWINGS, SUPPLEMENTARY INFORMATION AND BILL OF QUANTITIES

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Scope of Works

The scope of works mainly comprises Civil, Electrical, Plumbing, Infrastructure Development and related Ancillary Works lying within the boundaries and limits as shown on the drawings and any such additional areas adjacent thereto as may be designated by the Engineer from time to time for the construction to be performed under the Contract, and all such areas and additional areas shall comprise the Site.

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Technical Specifications

Volume-II covering Technical Specifications

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Drawings

Volume-III covering Drawings

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Supplementary Information

NOT APPLICABLE

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Bill of Quantities

Volume-IV covering Bill of Quantities

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Technical Proposal

- **Site Organization**
- **Method Statement**
- **Mobilization Schedule**
- **Construction Schedule**
- **List of Major Equipment**
- **Bidder's Equipment Data**

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Site Organization

The Bidder is required to submit an organization proposed for the Works, together with their names, qualifications, experience, positions held and their nationalities.

Designation	Name	Summary of Qualifications Experience, Present, Position and Nationality

- **Head Office:**

- **Site Office:**
  Contractor's Representative
  Site Superintendent
  Supervising Engineer
  Plant Erectors
  Construction Supervisors
  Other Key Staff

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Method Statement

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

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.

2. Mobilization, in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.

3. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site and providing all services including but not limited to supply of power, water, maintenance of facilities, safety and security and all what is required for completion of works in accordance with the Contract.

4. Quality control / Quality assurance measures to be adopted including procedures to be followed for carrying out all tests required under specifications.

5. The Bidder while preparing his methodology for performing and executing the works shall also consider the following:

a) The timely completion of the Project as per the time provided in Contract Data.

b) The Contractor while filling out the list of major equipment required at site, shall ensure that the equipment requirement is in consonance with the construction requirement.

c) The Contractor is not restricted to carry out the work in single shift. The Contractor should note that if he plans to execute the work in more than single shift than all costs related to the additional superintendence to be provided by the Engineer will be borne by the Contractor. Procedure for such additional costs will be worked out and finalized between the Contractor and Engineer with the consent of the Employer.

d) The portions of the Site shall be made available to the Contractor in coordination with other Contractors working at site. The Contractor shall prepare the work programme accordingly.

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Mobilization Schedule

The Bidder is required to submit a narrative outlining the method for mobilization of works and arrangement of preliminaries.

In accordance with the Particular Conditions, Sub-Clause 4.1, the Contractor shall not carry out mobilization to Site unless the Engineer gives consent.

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Construction Schedule

Pursuant to Sub-Clause 8.3 of the General Conditions, the whole of the Works, and each Section (if any), shall be completed within the Time for Completion for the Works or Section (as the case may be) stated as hereunder and mentioned in Contract Data:

Description	Time for Completion (Days)
Whole Works	364 days

The Bidder shall provide, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and Sections of the Works may meet Employer's completion targets in days noted above and counted from the Commencement Date.

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LIST OF MAJOR EQUIPMENT

The Bidder will provide 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.

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed.

Sr. No.	Description of Equipment	Total No. of Equipment to be brought/installed/erected for site during execution of Works	Minimum Mandatory Equipment to be brought/installed/erected at site prior to release of 2nd Part of Mobilization Advance
1.	Concrete mixer machine	02 No.	01 No.
2.	Excavator	01 No.	01 No.
3.	Hoist	02 No.	-
4.	Dewatering Pump (3HP)	01 No.	-
5.	Scaffolding	15,000 Rft	5,000 Rft
6.	Shuttering	10,000 Sft	3,000 Sft
7.	Tractor Trolley	02 No.	01 No.
8.	Steel Cutting / Bending Machine	01 No.	01 No.
9.	Generator Set (10 KVA)	01 No.	01 No.
10.	Total Station	01 No.	01 No.

Note:

The bidder while preparing his methodology for performing and executing the works and listing out Major Equipment (required to complete the Works in the specified Time Schedule) in this Appendix shall consider the above mentioned minimum requirement of Construction Equipment to be brought/installed/erected at site.

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ORGANIZATIONAL CHART
FOR THE
SUPERVISORY STAFF AND LABOUR

MINIMUM MANDATORY STAFF REQUIREMENT:

The Contractor shall arrange the following staff at site immediately upon commencement of works:

Designation ***(A)***	***Nos.*** ***(B)***	***Minimum Qualification*** ***(C)***	***Min. Relevant Working Experience*** ***(D)***
Project Manager	01	B.Sc. Civil Engineer with valid Pakistan Engineering Council Registration	08 years
Site Engineer	01	B.Sc. Civil Engineer with valid Pakistan Engineering Council Registration	06 years
Associate Engineer	01	B-Tech / DAE (Civil)	06 years
Associate Engineer	01	B-Tech/ DAE (E/M)	06 years
Quantity Surveyor	01	B-Tech/DAE (Civil)	06 years
Surveyor	01	DAE/Certificate	08 years

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Form EQU: Equipment

The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section V, Evaluation and 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 ☐ Owned ☐ Rented ☐ Leased ☐ Specially manufactured	

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	

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List of Recomendad Manufacturers

Equipment and materials specified with brand names have been provided in order to establish a standard of performance and do not necessarily indicate a preference for a particular manufacturer or material.

The names of manufacturers given below are to indicate the level of quality and performance anticipated by the Engineer/ Employer. Other makes may be accepted provided that the quality and performance of such equipment, in the opinion of the Engineer and subject to approval of the Employer, are at least equal to or better than the equipment/ product offered by the recommended manufacturer.

The acceptance of equipment/ materials offered by these manufacturers will be subject to compliance of offered models /materials with the specifications, capacity and/or performance requirements.

Onus lies with the Contractor for establishing the genuineness of any material/product for its make and origin.

S.NO.	ITEM	MANUFACTURER	
(A)	CIVIL		
1	Paint	i	Jotun Paints
		ii	Nippon Paints
		iii	ICI Paints
		iv	Berger Paints
		v	Gobis
2	Anti Termite Treatment	i	Mirage
		ii	Biflex
		iii	Termidor
3	Construction Chemicals	i	Sika
		ii	FEB
		iii	Ultra Chemical
		iv	Faw Chem
		v	Aquafin
4	Anchors for Concrete (Chemical and Mechanical)	i	Hilti
		ii	Spit
		iii	Sika
		iv	Fischer
5	PVC Water Stops	i	Decora
		ii	Sika
		iii	ATS Synthetics
6	Wall Coatings	i	Gritwall
		ii	Rockshield

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		iii	Rockwall
7	Façade Tile Cladding	i	Ultra Thin Rockslab (Kale)
8	Porcelain Tiles	i	Shabbir Tiles
		Ii	Benitoz
		Iii	Cretesol
		iv	Kale
9	Concrete Floor Tile & Pavers	i	Izhar Pavers
		ii	Concrete Wizard
		iii	Envicrete
		iv	Acmecrete
10	False Ceiling	i	OWA (Germany)
		ii	Daiken Coorporation (Japan)
11	Hardware, Hinges and Locks	i	Yale
		ii	Mandelli
12	Aluminum	i	Prime Aluminum
		ii	Chawla Aluminum
		iii	Alcop Aluminum
		iv	Pakistan Cables
13	Glass	i	Ghani Glass (Local)
		ii	Tariq Glass (Local)
		iv	Saint-Gobain Glass (Imported)
		v	Cornwall Glass (Imported)
		vi	Guardian Glass (Imported)
		vii	Pilkington (Imported)
		viii	AGC (Imported)
14	Marble	i	SK Stone (Imported)
		ii	Benitoz
		iii	Cretesol
15	UPVC doors/ windows	i	Buraq
		ii	Alpha Services
		iii	Win Zone
		iv	German Tech
		v	Black Eagle
		vi	Framez
(B)	**PLUMBING**		
1	Sanitary Fixtures	i	M/S Porta
		ii	M/S Marachi
2	Sanitary Fittings	i	M/S Faisal
		ii	M/S Sonex
3	Kitchen Sinks	i	M/S Atlas

		ii	M/S Rashad
4	Bath & Kitchen Specials / Accessories	i	M/S Faisal
		ii	M/S Sonex
5	Water Filters	i	M/S So-Safe
		ii	M/S N-viro Pak
6	Electric Water Heaters	i	M/S Ariston
		ii	M/S Canon
7	Gas+Electric Dual Water Heaters	i	M/S Corona
		ii	M/S Nasgas
		iii	M/S Tesla
8	Galvanized Iron /Mild steel Pipes	i	M/S International Industries Ltd.
		ii	M/S Bashir Pipe Industries Pvt. Ltd.
		iii	M/S Jamal Pipe Industries Pvt. Ltd
9	Galvanized Iron Pipe Fittings	i	M/S HE China
		ii	M/S TG China
10	Mild steel Seamless Pipes & fittings	i	M/S Huffaz
		ii	M/S Jamal Pipe Industries Pvt. Ltd
11	Thermal insulation for pipes	i	M/S Kimmco
		ii	M/S Afico
12	PPR Pipes & Fittings	i	M/S Dadex (polydex)
		ii	M/S Beta Pipe
		iii	M/S Popular Pipe
		iv	M/S Nepro Pipe
13	UPVC Pipes & Fittings	i	M/S Dadex (Nikasi)
		ii	M/S Beta Pipe
		iii	M/S Popular Pipe
		iv	M/S Nepro Pipe
14	Bronze/ Brass/ CI/ DI Valves	i	M/S Kitz
		ii	M/S Scon
		iii.	M/S Mech
15	Cast iron Pipes/traps/Covers/Gratings	i	M/S JAWS
		ii	M/S Sandan Engg. Pvt. Ltd (Teepu)
		iii	M/S Super Alpine
16	Fire Equipment	i	M/S Naffco
		ii	M/S Sffeco
		iii	M/S Lifeco
17	Water Transfer & Drainage Pumping Machinery	i	M/S KSB
		ii.	M/S DAB
		iii.	M/S Grundfos

18	Hangers & Supports	i	M/S Fischer
		ii	M/S Hilti
		iii	M/S Sikla
(C)	**ELECTRICAL**		
1	Distribution Boards and Main and Sub-Main Panel Boards	i	JEI
		ii	Power Tech
		iii	Bilal Switch Gear
		iv	Line man
		v	Tariq electric
		vi	Ercon
2	HT Cables, LV Cables and Wires	i	Pakistan Cables
		ii	NEWAGE Cables
		iii.	AGE Cables
		iv.	FAST Cables
5	Light Fixtures	i	PHILIPS(SIGNIFY) (Professional Series only)
		ii	OSRAM (Professional Series only)
		iii.	Sunlight (Professional Series only)
		iv.	Future Technology (Professional Series only)
7	PVC Conduits, Pipes, Ducts & Accessories	i	SHAVYL
		ii	Dadex
		iii	Adamjee DuraBuilt
		iv	Beta
		v	Polo

Authorized Signature and official Seal: _____

Name: _____

Date: _____

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SECTION VII: STANDARD BIDDING FORMS

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SECTION VII: STANDARD BIDDING FORMS

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Letter of Bid – Technical Proposal

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

Place this Letter of Bid in the first envelope "TECHNICAL PROPOSAL".

The Bidder must prepare the Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text in black font is to help Bidders in preparing this form and Bidders shall delete it from the final document.

Date of this Bid submission: [*insert date (as day, month and year) of Bid submission*]
RFB No.: Not Applicable.
Alternative No.: Not Applicable.

To:

Manager Administration
Gun & Country Club,
Islamabad

We, the undersigned Bidder, hereby submit the first part of our Bid, the Technical Proposal

In submitting our Bid we make the following declarations:

(a) **No reservations:** We have examined and have no reservations to the bidding document, including addenda issued in accordance with Instructions to Bidders **(ITB 9);**
(b) **Eligibility**: We meet the eligibility requirements and have no conflict of interest in accordance with ITB 3;
(c) **Bid/Proposal-Securing Declaration**: We have not been suspended nor declared ineligible by the Procuring agency/Employer based on execution of a Bid Securing Declaration or Bid Securing Declaration in the Procuring agency/Employer's country in accordance with **ITB 3;**
(d) **Conformity:** We offer to execute works in conformity with the bidding document and in accordance with the works requirements: [*insert a brief description of the WORKS*];
(e) **Bid Validity Period**: Our Bid shall be valid for the period specified in **BDS 18.1** (as amended, if applicable) from the date fixed for the Bid submission deadline specified in **BDS 24.1** (as amended, if applicable), and it shall remain binding upon us, and may be accepted at any time before the expiration of that period;
(f) **Performance Security**: If our Bid is accepted, we commit to obtain a performance security in accordance with the bidding document;
(g) One Bid per Bidder: We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other bid(s) as a Joint Venture member or as a subcontractor, and meet the requirements, other than Alternative Bids submitted in accordance with **ITB 20;**
(h) **Suspension and Debarment**: We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Procuring agency/Employer. Further, we are not ineligible under Pakistan laws;
(i) **State-owned enterprise or institution**: [*select the appropriate option and delete the other*] [*We are not a state-owned enterprise or institution*] / [*We are a state-owned enterprise or institution*];

(j) **Binding Contract**: We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;

(k) **Not Bound to Accept**: We understand that you are not bound to accept the Most Advantageous Bid or any other Bid that you may receive; and

(l) **Fraud and Corruption**: We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.

Name of the Bidder: *[*insert complete name of Bidder*]

Country of Origin of the Bidder: *[insert country of origin, in case of JV country of origin of lead member]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder: ** [*insert complete name of person duly authorized to sign the Bid*]

Title of the person signing the Bid: [*insert complete title of the person signing the Bid*]

Signature of the person named above: [*insert signature of person whose name and capacity are shown above*]

Date signed [*insert date of signing*] **day of** [*insert month*], [*insert year*]

*****: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

**: Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

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Form ELI 1 - Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid submission*]
RFB No.:

Page _____ of_ _____ pages

1. Bidder's Name *[insert Bidder's legal name]*
2. In case of JV, legal name of each member : *[insert legal name of each member in JV]*
3. Bidder's actual or intended country of registration: *[insert actual or intended country of registration]*
4. Bidder's year of registration: *[insert Bidder's year of registration]*
5. Bidder's Address in country of registration: *[insert Bidder's legal address in country of registration]*
6. Bidder's Authorized Representative Information Name: *[insert Authorized Representative's name]* Address: *[insert Authorized Representative's Address]* Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]* Email Address: *[insert Authorized Representative's email address]*
7. Attached are copies of original documents of *[check the box(es) of the attached original documents]* ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above. ☐ In case of JV, JV agreement, in accordance with ITB 3.3. ☐ Establishing that the Bidder is not under the supervision of the Procuring agency/Employer [in case of subsidiaries] 8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

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Form ELI 2 - Bidder's JV Members Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the Bidder and for each member of a Joint Venture]].
Date: *[insert date (as day, month and year) of Bid submission*]
RFB No.:

Page _____ of_ _____ pages

1. Bidder's Name: *[insert Bidder's legal name]*
2. Bidder's JV Member's name: *[insert JV's Member legal name]*
3. Bidder's JV Member's country of registration: *[insert JV's Member country of registration]* NOT APPLICABLE
4. Bidder's JV Member's [illegible] registration]
5. Bidder's JV Member's legal address in country of registration: *[insert JV's Member legal address in country of registration]*
6. Bidder's JV Member's authorized representative information Name: *[insert name of JV's Member authorized representative]* Address: *[insert address of JV's Member authorized representative]* Telephone/Fax numbers: *[insert telephone/fax numbers of JV's Member authorized representative]* Email Address: *[insert email address of JV's Member authorized representative]*
7. Attached are copies of original documents of *[check the box(es) of the attached original documents]* ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above. 8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

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PERSONNEL

Form PER 1 – Contractor's Representative and Key Personnel Schedule

Bidders should provide the names and details of the suitably qualified Contractor's Representative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Contractor' Representative and Key Personnel

1.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
2.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
3.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
4.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]

5.	**Title of position:**	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
6.	**Title of position:** *[insert title]*	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]

Form PER-2: Resume and Declaration

Contractor's Representative and Key Personnel

Name of Bidder

Position [*#1*]: [*title of position from Form PER-1*]		
Personnel information	**Name:**	**Date of birth:**
	Address:	**E-mail:**
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency: *[language and levels of speaking, reading and writing skills]*	
details		
	Address of Procuring agency/Employer:	
	Telephone:	**Contact (manager / personnel officer):**
	Fax:	
	Job title:	**Years with present Procuring agency/Employer:**

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

Project	**Role**	**Duration of involvement**	**Relevant experience**
[main project details]	*[role and responsibilities on the project]*	*[time in role]*	*[describe the experience relevant to this position]*

Declaration

I, the undersigned *[insert either "Contractor's Representative" or "Key Personnel" as applicable]* , certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Bid:

Commitment	**Details**
Commitment to duration of contract:	*[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]*
Time commitment:	*[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]*

I understand that any misrepresentation or omission in this Form may:

(a) be taken into consideration during Bid evaluation;

(b) result in my disqualification from participating in the Bid;

(c) result in my dismissal from the contract.

Name of Contractor's Representative or **Key Personnel: [*insert name*]**
Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Bidder:

Signature: _____

Date: (day month year): _____

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Form CON – 2: Historical Contract Non-Performance, Pending Litigation and Litigation History

Bidder's Name: _____
Date: _____
JV Member Name_____
ICB/NCB No. and title: _____
Page _____of _____pages

Non-Performed Contracts in accordance with Qualification Criteria			
☐ Contract non-performance did not occur January *[insert year]* ☐ Contract(s) not performed since [*insert year]*			
Year	**Non-performed portion of contract**	**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and PKR equivalent)**
		Contract Identification: Name of Procuring agency/Employer(PA): Address of PA: Reason(s) for nonperformance:	
Pending Litigation, in accordance with Qualification Criteria			
☐ No pending litigation ☐ Pending litigation			

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Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount
		Contract Identification: _____ Name of PA: _____ Address of PA: _____ Matter in dispute: _____ Party who initiated the dispute: ____ Status of dispute: _____	

Litigation History in accordance with Section III, Evaluation and Qualification Criteria of the Prequalification document
☐ No Litigation History ☐ Litigation History

Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), PKR Equivalent (exchange rate)
[insert year]	*[insert percentage]*	Contract Identification: *[indicate complete contract name, number, and any other identification]* Name of PA: *[insert full name]* Address of PA: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring agency/Employer" or "Contractor"]* Reason(s) for Litigation and award decision *[indicate main reason(s)]*	*[insert amount]*

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FINANCIAL SITUATION

Form FIN – 3.1: Financial Situation and Performance

Bidder's Name: _____
Date: _____
JV Member's Name_____
ICB No. and title: _____
Page _____of _____pages

1. Financial data

Type of Financial information in (currency)	**Historic information for previous** *years,* **(amount in currency, currency, exchange rate*, PKR equivalent)**		
	Year 1	Year 2	Year 3
Total Assets (TA)			
Total Liabilities (TL)			
Total Equity/Net Worth (NW)			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital (WC)			
Information from Income Statement			
Total Revenue (TR)			
Profits Before Taxes (PBT)			
Cash Flow Information			
Cash Flow from Operating Activities			

*Refer to ITB 16 for the exchange rate

2. Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

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No.	Source of finance	Amount (PKR)
1		
2		
3		

3. Financial documents

The Bidder and its parties shall provide copies of audited balance sheets for last 05 years pursuant to Evaluation and Qualifications Criteria, Sub-factor B.4. The financial statements shall:

(a) reflect the financial situation of the Bidder or in case of JV member, and not an affiliated entity (such as parent company or group member).

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

☐ Attached are copies of Audited Balance Sheets for the **03** years required above; and complying with the requirements

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Form FIN – 3.2: Average Annual Turnover

Bidder's Name: _____
Date: _____
JV Member's Name_____
ICB/NCB No. and title: _____
Page _____of _____pages

Annual turnover data (construction only)			
Year	**Amount** **Currency**	**Exchange rate**	**PKR equivalent**
[indicate year]	*[insert amount and indicate currency]*		
Average Annual Turnover *			

* See Section V, Evaluation and Qualification Criteria.

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Form FIN – 3.3: Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Section V (Evaluation and Qualification Criteria)

Financial Resources		
No.	**Source of financing**	**Amount (PKR.)**
1		
2		
3		

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Form FIN – 3.4: Current Contract Commitments / Works in Progress

Bidders and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments					
No.	**Name of Contract**	**Procuring agency/Employer's Contact Address, Tel, Fax**	**Value of Outstanding Work [PKR Equivalent]**	**Estimated Completion Date**	**Average Monthly Invoicing Over Last Six Months [PKR/month)]**
1					
2					
3					
4					
5					

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Form FIN - 5: Self-Assessment Tool for Bidder's Compliance to Financial Resources (Criterion 2.1 of Section 3)

This form requires the same information submitted in Forms FIN – 3.3 and FIN -3.4. All conditions of "Available Financial Resources Net of CCC ≥ Requirement for the Subject Contract" must be satisfied to qualify.

Form FIN - 5A: For Single Entities

For Single Entities: (A)	Total Available Financial Resources from FIN – 3.3 (B)	Total Monthly Financial Requirement for Current Contract Commitments (CCC) from FIN – 3.4 (C)	Available Financial Resources Net of CCC D = (B - C)	Requirement for the Subject Contract (E)	Results: Yes or No [*D must be greater than or equal to E*] (F)
_____ (Name of Bidder)				. . . . . ._	

Form FIN - 5B: For Joint Ventures

For Joint Ventures: (A)	Total Available Financial Resources from FIN – 3.3 (B)	Total Monthly Financial Requirement for Current Contract Commitments (CCC) from FIN – 3.4 (C)	Available Financial Resources Net of CCC D = (B - C)	Requirement for the Subject Contract (E)	Results: Yes or No [*D must be greater than or equal to E*] (F)
One Partner:					
_____ __ (Name of Partner)	NOT USED			. . . . . .	
Each Partner:					
_____ _ (Name of Partner 1)				. . . . . .	
_____ _ (Name of Partner 2)				. . . . . .	

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_____ _ (Name of Partner 3)				. . . .	
All partners combined	∑ D = Sum of available financial resources net of current contract commitments for all partners		∑ D = _____	. . . .	

- Note -

Form FIN – 5 is made available for use by the bidder as a self-assessment tool, and by the employer as an evaluation work sheet, to determine compliance with the financial resources requirement as stated in 2.3.3. Failure to submit Form FIN - 5 by the Bidder shall not lead to bid rejection.

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EXPERIENCE

Form EXP - 4.1: General Construction Experience

Bidder's Name: _____
Date: _____
JV Member's Name_____
ICB/NCB No. and title: _____
Page _____of _____pages

Starting Year	Ending Year	Contract Identification	Role of Bidder
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of PA: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of PA: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of PA: _____ Address: _____	

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Form EXP - 4.2(a)
Specific Construction and Contract Management Experience

Bidder's Name: _____
Date: _____
JV Member's Name_____
ICB/NCB No. and title: _____
Page _____of _____pages

Similar Contract No.	**Information**			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			PKR equivalent	
If member in a JV or sub-contractor, specify participation in total Contract amount				
PA's Name:				
Address: Telephone/fax number E-mail:				

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Form EXP - 4.2(a) (cont.)
Specific Construction and Contract Management Experience (cont.)

Similar Contract No.	Information
Description of the similarity in accordance with Sub-Factor 4.2(a) of Section III:	
1. Amount	
2. Physical size of required works items	
3. Complexity	
4. Methods/Technology	
5. Construction rate for key activities	
6. Other Characteristics	

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Form EXP - 4.2(b)
Construction Experience in Key Activities

Bidder's Name: _____
Date: _____
Bidder's JV Member Name: _____
Sub-contractor's Name[1] (as per ITB 34.2 and 34.3): _____
ICB/NCB No. and title: _____

Page _____of _____pages

All Sub-contractors for key activities must complete the information in this form as per ITB 38 and Qualification Criteria and Requirements, Sub-Factor 4.2.

1. Key Activity No One: _____

	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			PKR equivalent	
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity in the contract (i)	Percentage participation (ii)		Actual Quantity Performed (i) x (ii)
Year 1				
Year 2				
Year 3				
Year 4				
PA's Name:				
Address: Telephone/fax number				

[1] If applicable

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	Information
E-mail:	

2. Activity No. Two

3. ……

	Information
Description of the key activities in accordance with Section III:	

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Form EXP - 4.2 (c)
Specific Experience in Managing ES aspects

[The following table shall be filled in for contracts performed by the Bidder, and each member of a Joint Venture]

Bidder's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
ICB/NCB No. and title: *[insert ICB/NCB number and title]*
Page *[insert page number]* of *[insert total number]* pages

NOT USED

1. Key Requirement no 1 in accordance with 4.2 (c): _____

Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Subcontractor ☐
Total Contract Amount			PKR	
Details of relevant experience				

2. Key Requirement no 2 in accordance with 4.2 (c): _____
3. Key Requirement no 3 in accordance with 4.2 (c): _____
4. …

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Appendix-A
Form of Bid Security

(Bank Guarantee)

[The bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Purchaser to insert its name and address]*

No.: *[Purchaser to insert reference number for the Request for Bids]*

Alternative No*.: [Insert identification No if this is a Bid for an alternative]*

Date: *[Insert date of issue]*

BID GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _____ *[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Bid (hereinafter called "the Bid") for the execution of _____ under Request for Bids No. _____ _ ("the RFB").

Furthermore, we understand that, according to the Beneficiary's conditions, Bids must be supported by a Bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

(a) has withdrawn its Bid during the period of Bid validity set forth in the Applicant's Letter of Bid ("the Bid Validity Period"), or any extension thereto provided by the Applicant; or

(b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to sign the contract agreement, or (ii) has failed to furnish the performance security, in accordance with the Instructions to Bidders ("ITB") of the Beneficiary's bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such Contract agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Bidding process; or (ii) twenty-eight days after the end of the Bid Validity Period.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

_____

[Signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

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Appendix-B
Form of Bid-Securing Declaration

[The Bidder shall fill in this Form in accordance with the instructions indicated.]

Date: *[date (as day, month and year)]*
No.: *[number of bidding process]*
Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[complete name of Procuring agency/Employer]*

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid-Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

(a) have withdrawn our Bid during the period of Bid validity specified in the Letter of Bid; or

(b) having been notified of the acceptance of our Bid by the Procuring agency/Employer during the period of Bid validity, (i) fail or refuse to sign the Contract; or (ii) fail or refuse to furnish the Performance Security (or guarantee), if required, in accordance with the ITB.

We understand this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

Name of the Bidder***** _____

Name of the person duly authorized to sign the Bid on behalf of the Bidder****** _____

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ day of _____, _____

*****: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder
**: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]

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Appendix C

[*The formulae for price adjustment shall be of the following general type:*]

Pn= a + b Ln / Lo + c En/ Eo + d Mn/Mo + ...

where:

“Pn” is the adjustment multiplier to be applied to the estimated Contract value in the relevant currency of the work carried out in period “n”, this period being a month;

“a” is a fixed coefficient, stated in the relevant table of adjustment data, representing the non- adjustable portion in contractual payments;

“b”, “c”, “d”, ... are coefficients representing the estimated proportion of each cost element related to the execution of the Works as stated in the relevant table of adjustment data; such tabulated cost elements may be indicative of resources such as labour, equipment and materials;

“Ln”, “En”, “Mn”, are the current cost indices or reference prices for period “n”, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 28 days prior to the last day of the period (to which the particular Payment Certificate relates); and

“Lo”, “Eo”, “Mo”, are the base cost indices or reference prices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the Base Date i.e. prices prevalent 28 days prior to the latest day for submission of Bids.

The weightings (coefficients) for each of the factors of cost stated in the following table(s) of adjustment data shall only be adjusted if they have been rendered unreasonable, unbalanced or inapplicable, as a result of Variation(s).

The source of prices and the weightages for use in the adjustment formula shall be as follows:

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SCHEDULE OF ADJUSTMENT DATA

Table I. Local Currency (LC) For Bill Nos_____.

Cost Element	Description	Weightages	Applicable Price
(i)	(ii)	(iii)	(iv)
a	Fixed Portion	0.39	
b	Labour *(Labourer (un-skilled) per day, shall be taken as representative of all types of Labour (skilled/unskilled) deployed at site)*	0.15	Government of Pakistan (GP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
c	Cement *(OPC cement per bag shall be taken as representative of all types of cement used at the site)*	0.10	- do -
d	Reinforcing Steel *(½" Ø round M.S. Bars per tonne shall be taken as representative of all types and diameters of Steel Reinforcement)*	0.31	- do -
e	High Speed Diesel (HSD) *(HSD shall be taken as representative of all kind of fuels used in connection with the Contract)*	0.05	-do-
	Total	1.00	

Notes:

1) Prices for "(b)" to "(e)" shall be taken from the Government of Pakistan, Federal Bureau of Statistics. Monthly Statistical Bulletin. The base prices shall be those prevalent 28 days prior to the latest day for submission of Bids. Current date price of any element shall be those prevalent 28 days prior to the last day of the period to which the particular Payment Certificate relates.

2) If the Statistical Bulletin of the aforesaid month is not available at the time of Bid opening, then the Basic Prices of Specified Materials will be submitted by the Contractor at the time of their availability and shall be recommended by the Engineer and will be fixed as Basic Prices for Specified Materials for Price Adjustment.

3) The prices for the cost elements of (b) to (e) shall be used for the City where the Site is located. In case the Site is not listed in the monthly statistical Bulletin, the prices for the nearest City listed in the Bulletin shall be used.

4) Any fluctuation in the prices of materials other than those given above shall not be subject to adjustment of the Contract Price and shall be deemed to be included in the rates and prices quoted by the Bidders.

5) The prices of materials provided in this Appendix are for the purpose of price adjustment only. The Contractor shall base his rates entered in the Bill of Quantities on current market prices.

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SECTION VIII. GENERAL CONDITIONS (GC)

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Section VIII. General Conditions (GC)

Red Book:

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The Conditions of Contract are the “General Conditions” which form part of the “Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer (“Red book”) Second edition 2017, Reprinted 2022 with amendments” published by the Federation Internationale Des Ingenieurs – Conseils (FIDIC) and the following “Particular Conditions” which shall complement the General Conditions of the Contract.

The Contractor shall arrange and provide three (3) originals of the above FIDIC publication directly from FIDIC and shall also submit the original purchase receipts as documentary evidence to the Engineer.

International Federation of Consulting Engineers (FIDIC)

FIDIC Bookshop – Box- 311 – CH – 1215 Geneva 15 Switzerland

Fax: +41 22 799 49 054

Telephone: +41 22 799 49 01

E-mail: fidic@fidic.org

www.fidic.org

FIDIC code: ISBN13: 978-2-88432-084-9

SECTION IX. SPECIAL CONDITIONS OF THE CONTRACT

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Special Conditions of the Contract

The Special Conditions of Contract (SCC) complement the General Conditions of Contract (GCC) to specify data and contractual requirements of the Procuring agency/ Employer/ Employer, the engineer, the sector, the overall project, and the works. In the event of a conflict, the provisions herein shall prevail over those in the GCC.

Part A – Contract Data

Contract data of the SCC, includes data to complement the GCC in a manner similar to the way in which the Bid Data Sheet complements the Instructions to Bidders.

SCC Clause Number	GCC Clause Number	Amendments of, and Supplements to, Clauses in the GCC
		General Provision (GCC 1)
1.	1.1.27	365 days
2.	1.1.31	Employer's name and address: Gun & Country Club, Islamabad. Name of Employer's representative: **Manager Administration** Gun & Country Club, Islamabad.
3.	1.1.35	_____ *[insert Engineer's name and address at the time of appointment of the Engineer]*
4.	1.1.84	364 days for whole of the Works
5.	1.3	**For notices** Procuring Agency/Employer Authorized representatives name and address: **Manager Administration** Gun & Country Club, Islamabad. Engineer's Authorized representatives name and address: ---------- *[insert Engineer's authorized representative name and address at the time of appointment of the Engineer]* Contractors Authorized representatives name and address: ---------- *[insert Contractor's name and address at the time of signing of the Contract]*

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6.	1.4	**Governing Law;** The Applicable Law shall be: Laws of the Islamic Republic of Pakistan
7.	1.4	**Communication Language:** The Communication Language shall be: English
The Employer/ Procuring agency/Employer (GCC Clause 2)		
8.	2.1	Time for access to the Site: Within 14 days of Signing of Contract Agreement.
9.	2.4	The Employer has sufficient funds to cover the Cost of the entire Project.
The Engineer (GCC Clause 3)		
10.	3.2	Engineer's Duties and Authority: Variations resulting in an increase of the Accepted Contract Amount in excess of 1% subject to accumulative Variations not exceeding five percent (5%) of the Accepted Contract Amount.
The Contractor (GCC Clause 4)		
11.	4.2	Performance guarantee/ security will be in the form of an un-conditional and irrevocable bank guarantee from a scheduled bank in Pakistan in the amount of 10% as a percentage of the Accepted Contract Price.
12.	4.7.2(a)	**Clause 4.7 Setting out** Period for notification of errors in the items of reference*: 28 (twenty-eight) days*
13.	4.20	Number of additional paper copies of progress reports: 03
Sub-Contracting (GCC Clause 5)		
14.	5.1(a)	Maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount): twenty-five percent (25%)
15.	5.1 (b)	Works for which sub-contracting is not permitted: None
Staff and Labour (GCC Clause 6)		
16.	6.5	Normal working hours 08 *(eight) hours.*
Plant, Material and Workmanship (GCC Clause 7)		
17.	7.2	Samples as required by the Engineer.

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Commencement, Delays and Suspension (GCC Clause 8)		
18.	8.3	Number of additional paper copies of program: 03 copies
19.	8.8	Delay damages shall be payable for each day of delay shall be 0.08% of the Accepted Contract Amount per day, in the currency and proportions in which the Contract Price is payable. Maximum amount of delay damages is 10% of the Accepted Contract Amount.
20.	8.14	Clause 8.14 Applicability of Incentives for Early Completion: Not Applicable.
Measurement and Valuation (GCC Clause 12)		
21.	12.2	Method of measurement shall be in accordance with the reference Technical Specifications, Bill of Quantities and/ or other applicable Schedule(s) for relevant BOQ item of work.
22.	12.3	Percentage overheads, profit & taxes : 25%
Variations and Adjustments (GCC Clause 13)		
23.	13.4 (b)(ii)	Percentage rate to be applied to Provisional Sums for overhead charges, profit and tax is: Twenty five percent (25%)
24.	13.7	Adjustments for Changes in Cost: The Accepted Contract Amount shall be adjustable during Contract Execution as per Appendix-C.
Contract Price and Payment (GCC Clause 14)		
25.	14.2	Total advance payment shall be fifteen percent (15%) of the Accepted Contract Amount excluding Provisional Sums payable in the currency and proportion of Contract.
26.	14.2.3	Repayment of Advance payment: Deduction shall be made at the amortization rate of 20% of the value of the Works executed in each IPC as provided in paragraph (i) of Sub-Clause GCC 14.3, starting from 1st IPC against work done provided that the advance payment shall be completely repaid prior to the time when 90% of the Accepted Contract Amount less Provisional Sums has been certified for payment. It may be more than 20% in the last instalment to ensure full repayment.
27.	14.3	Period of payment: one month
28.	14.3(b)	Number of additional paper copies of statements: four (04)
29.	14.3(iii)	Percentage of retention: 7% (seven percent)

		Limit of Retention Money: 5% (five percent)
30.	14.5(b)(i)	Plant and Materials for payment when shipped: Not Applicable
31.	14.5(c)(i)	Plant and Non-Perishable Materials under Bill of "Imported Plant and Materials" shall be paid as: Not Applicable
32.	14.6.2	Withholding (amount in) an IPC: 8% of the Accepted Contract Amount.
33.	14.7(a)	Period of payment of Advance Payment to the Contractor: 14 days
34.	14.7 b(i)	Period for the Procuring agency/Employer to make interim payments to the Contractor under Sub-Clause 14.6 (interim Payment): 14 days
35.	14.7 b(ii)	Period for the Procuring agency/Employer to make interim payments to the Contractor under Sub-Clause 14.13 (Final Payment): 28 days
36.	14.7(c)	Period for the Procuring agency/Employer to make final payment to the Contractor: 56 days
37.	14.8	financing charges for delayed payment: Nil
38.	14.11.1(b)	Number of additional paper copies of draft Final Statement: four (4)
39.	14.15	Currencies of Payment The Contract Price shall be paid in Pakistani Rupees (PKR).
40.	14.15 (a)(i)	Local Currency: 100% Foreign Currency: 0%
41.	14.15 (c)	Local Currency: 100% Foreign Currency: 0%
42.	14.15 (f)	Rate of exchange: Nil
43.	17.2 (d)	Liability for Care of the Works Nil
Insurance (GCC Clause 19)		
44.	19.1	Permitted deductible limits insurance required for the Works: 10% of the loss amount on each and every loss. insurance required for Goods: Nil insurance required for liability for breach of professional duty: Nil

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		insurance required against liability for fitness for purpose (if any is required): Nil insurance required for injury to persons and damage to property: Pak Rupees one hundred thousand (PKR. 100,000) per occurrence with number of occurrences unlimited insurance required for injury to employees: Pak Rupees one hundred thousand (Rs. 100,000) per occurrence with number of occurrences unlimited other insurances required by Laws and by local practice: Nil
45.	19.1	Periods for submission of insurance: a) evidence of insurance: Not later than the Commencement Date b) relevant policies: Within twenty-eight (28) days from the Commencement Date
46.	19.2.1(b)	Additional amount to be insured: 15% of Accepted Contract Amount
47.	19.2.1(iv)	List of Exceptional Risks which shall not be excluded from the insurance cover for the Works: Nil
48.	19.2.2	Extent of insurance required for Goods: from Ex-Works to delivery at the Site Amount of insurance required for Goods: Full Replacement Value
49.	19.2.3(a)	amount of insurance required for liability for breach of professional duty: full replacement value of the Works to be designed by the Contractor
50.	19.2.3(b)	Insurance required against liability for fitness for purpose: Yes
51.	19.2.3	Period of insurance required for liability for breach of professional duty: Until the date of issuance of Performance Certificate
52.	19.2.4	Amount of insurance required for injury to persons and damage to property: Injury to person and Fata case: in accordance with Workmen Compensation Act Damage to Property: PKR 1 million without limit to the number of incidents
53.	19.2.6	**Insurance** Other insurances required by Laws and by local practice: All insurances as applicable to the extent of execution of the project, under Federal and Provincial laws of Islamic Republic of Pakistan.

Dispute Avoidance/ Adjudication Board (GCC Clause 21)		
54.	21.1	As and when required (Ad-hoc DAB)
55.	21.1	The DAB shall comprise: *sole member*
56.	21.1	List of proposed members of DAB [to be inserted at the time of signing of the Contract] - Proposed by Employer/ Procuring agency/Employer: One sole member to be appointed with mutual consent of both parties. - Proposed by Contractor: One sole member to be appointed with mutual consent of both parties.
57.	21.2	Appointing entity (official) for DAB members: Chairman Pakistan Engineering Council (PEC) from the list of PEC approved arbitrators published at its website.
58.	21.6	PEC Rules of Conciliation and Arbitration or Pakistan Arbitration Act of 1940, if the former is inactive. The place of Arbitration shall be in the Employer's country: Islamabad, Pakistan

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Part-B Special Provisions

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PARTICULAR CONDITIONS

Part B - Special Provisions

1.1 Definitions

1.1.22 "DAAB or Dispute Avoidance / Adjudication Board"

Delete the text of 1.1.22 and replace with the following:

"**Dispute Adjudication Board**" or "**DAB**" means the person so named in the Contract, or appointed under Clause 21"

1.1.23 "DAAB Agreement"

Delete the text of 1.1.23 and replace with the following:

"**DAB Agreement"** means the Agreement signed or deemed to have been signed by both parties and the sole member of the DAB in accordance with Sub-Clause 21.1. [*Constitution of DAB*] or Sub-Clause 21.2 [*Failure to Appoint DAB Member(s)*], incorporating by reference the General Conditions of DAB Agreement contained in the Appendix of these General Conditions with such amendments as are agreed.

1.1.76 "Specification"

Following is added at the end:

"and consists of two parts i.e.,

i) "Part A - Specific Provisions"; and

ii) "Part B - Specifications

- Technical Provisions".

1.2 Interpretation

"and" is deleted from the end of sub-paragraph (i) and added at the end of sub-paragraph (j).

Sub-paragraph (k) is added:

"(k) The word "tender" is synonymous with "bid" the word tenderer with "bidder", the words "tender documents" with "bidding documents" and "Schedule of Prices" with "Bill of Quantities", as applicable."

1.5 Priority of Documents

The documents listed at (a) through (k) of this Sub-Clause are deleted and substituted with the following:

(a) the Contract Agreement;

(b) the Letter of Acceptance;

(c) The completed Letters of Technical & Financial Bid;

(d) the Particular Conditions Part A - Contract

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Data;

(e) the Particular Conditions Part B - Special Provisions;

(f) the General Conditions;

(g) the Specification Part A - Specific Provisions;

(i) Bill of Quantities

(j) Drawings

(k) The Specification Part B - Technical Provisions

(l) any other documents forming part of the Contract.

The addenda/ corrigenda, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

1.6 Contract Agreement

Delete the text and substitute with the following:

The Parties shall sign a Contract Agreement within 28 days after the Contractor receives the Letter of Acceptance. The costs of stamp duties and similar charges (if any) imposed by law in connection with entry into the Contract Agreement shall be borne by the Contractor. The Contractor shall prepare six (6) copies of the Contract Document (including all the volumes / documents listed in the Contract Agreement) along-with copies of all the bonds/Guarantees/Sureties, at his cost and shall submit the same to the Employer".

3.1 The Engineer

In sub-paragraph (a) the text "as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)" are added after the words "professional engineer"

3.2 Engineer's Duties and Authority

The Engineer shall obtain the consent in writing of the Employer before taking action under the following Sub-Clauses of these Conditions:

(a) Consenting to the subcontracting of any part of the Works under Sub-Clause 5.1 [*Subcontractors*]

(b) Any action under Sub-Clauses 8.9 [*Employer's Suspension*] and 8.12 [*Prolonged Suspension*]

(c) Issuance of "Taking Over Certificate" under Sub-Clause 10.1 [*Taking Over the Works and Sections*].

(d) Issuing the "Performance Certificate" under Sub-Clause 11.9 [*Performance Certificate*].

(e) Sub-Clause 13.1 [*Right to Vary*]: instructing a

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Variation, except;

(i) in an emergency situation as determined by the Engineer, or

(ii) if such a Variation would increase the Accepted Contract Amount by less than the percentage specified in the Contract Data.

(f) Sub-Clause 13.3 [*Variation Procedure*]: approving a proposal for Variation submitted by the Contractor in accordance with Sub-Clause 13.3.2 [Variation by Request for Proposal] or 13.2 [*Value Engineering*].

(g) Certifying release of second half of the Retention Money under Sub-Clause 14.9 [*Release of Retention Money*].

(h) Issuing Final Payment Certificate under Sub-Clause 14.13 [*Issue of FPC*].

(i) Any Change in the payment thereof under Clause 13.6 [*Adjustment for Changes in Law*].

(j) Extra payment as a result of Contractor's claims under Clause 20 [*Employer's and Contractor's Claim*].

Any such requirement shall not be applied to any action by the Engineer under Sub-Clause 3.7 [*Agreement or Determination*], as stated in Sub-Clause 3.2 [*Engineer's Duties and Authority*] of the General Conditions.

Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility 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, despite the absence of approval of the Employer, 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 13 and shall notify the Contractor accordingly, with a copy to the Employer.

Following is added after the words "the Employer's consent is required" in 4th paragraph:

"stating that the Employer's consent has been obtained for that specified authority".

4.2 Performance Security

4.2.1 Contractor's Obligations

The entity issuing the Performance Security and its

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form shall be as under:

The Performance Security shall be, at the option of the Contractor, issued in the prescribed form included in the Bidding Documents, by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan.

Following paragraph is added at the end of this Sub-Clause:

"The amount of Performance Security shall be reduced to 50% following issue of the Taking-Over Certificate for the whole of the Works under Clause 10 of Conditions of Contract."

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

4.3 Contractor's Representative

In second paragraph the text "professional engineer as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976) (having temporary licence in case of foreign engineer under Section 12 of the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)" are added after the words "qualified, experienced".

In the 3rd paragraph the words "28 days" are substituted by "14 days". In 2nd line of 4th paragraph the text "or appoint a replacement" is substituted by "except appointment of a suitable temporary replacement is deployed at the Site"

4.4 Contractor's Documents

4.4.2 As-Built Records

First paragraph is deleted and the text in the last paragraph is substituted with the following:

"The Contractor shall furnish to the Engineer 6 copies, one reproducible and one electronic copy (provided the Engineer has made available to the Contractor editable form of the Drawings) of all Drawings amended to conform to the Works as built. In case the Engineer does not make available to the Contractor editable form of the Drawings, the Contractor shall furnish to the Engineer as-built data for incorporation in the Drawings. Upon receipt of PDF versions of the as-built drawings prepared by the Engineer, the Contractor shall furnish to the Engineer 6 copies and one reproducible of these Drawings.

The price of such Drawings shall be deemed to be included in the Contract Price."

Following Sub-Clause is added:
4.4.4 Shop Drawings

The Contractor shall submit to the Engineer for review

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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 exceed 21 days and be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and the Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

4.8 Health and Safety Obligations

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

In the event of work being carried out outside the normal working hours and 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.

4.20 Progress Reports

At the end of sub-paragraph (g) the word "and" is deleted and at the end of sub-paragraph (h) the full stop (.) is replaced with ";", and the following new sub-paragraphs are added as:

i) planned programme for the execution of the Works for next 56 days to enable the Engineer to determine its programme of inspection and testing;

j) monthly summary of daily job record indicating weather conditions, deployment of Contractor's Equipment, labour employment, local material procurement and material import, if any; and

k) salient contractual and project information

5.1 Subcontractors

Add the following text at the end of paragraph (ii):

"under Schedule to Bid"

The following is added at the end of the last paragraph of Sub- Clause 5.1:

"All subcontracts relating to the Works shall include provisions which entitle the Employer to require the subcontract to be assigned to the Employer under sub-paragraph (a) of Sub- Clause 15.2.3 [*After Termination*].

The Contractor shall give reasonable opportunity to

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contractors from Islamic Republic of Pakistan for subcontracts for the Works, and endeavour to employ such contractors as Subcontractors."

5.2 Nominated Subcontractors

5.2.2 Objection to Nomination

In sub-paragraph (c), "and" is deleted from the end of (i); "." at the end of (ii) is replaced with: ", and".

The following is then added as (iii):

"(iii) be paid only if and when the Contractor has received from the Employer payments for sums due under the Subcontract referred to under Sub-Clause 5.2.3 [*Payment to nominated Subcontractors*]."

6.1 Engagement of Staff and Labour

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

"The Contractor shall, to the extent practicable and reasonable, employ staff (not less than 50%) and labour (not less than 85%) with appropriate qualifications and experience from sources within the Islamic Republic of Pakistan."

6.7 Health and Safety of Personnel

The existing text is substituted with the following:

"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 authorize 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 also provide all other medical services and appoint a health and safety officer at Site if stated in the Specifications. In case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means."

6.8 Contractor's Superintendence

Insert at the end of sub-paragraph (a) of this Sub-Clause:

"or, if not, the Contractor shall make competent interpreters available during all working hours, in a number sufficient for those persons to properly perform their superintendence duties"

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

"The Contractor's authorized representative and his

other engineers working at site shall possess valid registration with the Pakistan Engineering Council.

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

6.12 Key Personnel

The following is inserted at the end of the last paragraph:

"If any of the Key Personnel are not fluent in this language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer."

The following Sub-Clauses 6.13 to 6.26 are added at the end of Sub-Clause 6.12:

6.13 Foreign Personnel

The Contractor may bring in to the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required residence visas and work permits. The Employer will, if requested by the Contractor, use all reasonable endeavors in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national, or government permission required for bringing in the Contractor's personnel.

The Contractor shall be responsible for the return of these personnel to the place where they were recruited or to their domicile. In the event of the death in the Country of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

6.14 Supply of Foodstuffs

The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

6.15 Supply of Water

The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

6.16 Measures against Insect and Pest

The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel

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	Nuisance	employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.
6.17	**Alcoholic Liquor or Drugs**	The Contractor shall not, otherwise than in accordance with the Laws of the Country, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal thereto by Contractor's Personnel
6.18	**Arms and Ammunition**	The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.
6.19	**Festivals and Religious Customs**	The Contractor shall respect the Country's recognized festivals, days of rest and religious or other customs.
6.20	**Funeral Arrangements**	The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the Works.
6.21	**Forced Labour**	The Contractor, including its Subcontractors, shall not employ or engage forced labour which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labour, such as indentured labour, bonded labour or similar labour-contracting arrangements.
6.22	**Child Labour**	The Contractor, including its Subcontractors, shall not employ or engage child labour in accordance with relevant law(s) in force in Islamic Republic of Pakistan.
6.23	**Employment Records of Workers**	The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [*Contractor's Records*].
6.24	**Workers' Organizations**	The Contractor shall comply with the relevant labour laws of Pakistan which recognize workers' rights to

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form and to join workers' organizations/Trade Union of their choosing and to bargain collectively without interference.

6.25 Non-Discrimination and Equal Opportunity

The Contractor shall not make decisions relating to the employment or treatment of Contractor's Personnel on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices.

Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Contractor shall provide protection and assistance as necessary to ensure non discrimination and equal opportunity, including for specific groups such as women, persons with disabilities, migrant workers and children (of working age in accordance with Sub-Clause 6.22)

6.26 Epidemics

In the event of any out-break of illness of 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 the purpose of overcoming the same.

7.7 Ownership of Plant and Materials

The following is added before the first paragraph: "Except as otherwise provided in the Contract,"

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

"No Plant and/or Materials that is the property of the Employer shall be removed from the Site. If it becomes necessary to:

(i) remove any item of such Plant from the Site for the purposes of repair, the Contractor shall give a Notice, with reasons, to the Engineer requesting consent to remove the defective or damaged item off the Site. This Notice shall clearly identify the item of defective or damaged Plant, and shall give details of: the defect or damage to be repaired; the place to which defective or damaged item of Plant is to be taken for repair; the transportation to be used (and insurance cover for such transportation); the proposed inspections and testing off the Site; and the planned duration

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required before the repaired item of Plant shall be returned to the Site. The Contractor shall also provide any further details that the Employer may reasonably require; or

(ii) replace any item(s) of such Plant and/or Materials, the Contractor shall give a Notice, with reasons, to the Engineer clearly identifying the item(s) of Plant and/or Materials to be replaced, and giving details of the due date of delivery to the Site of the replacement item(s).

Where any item of Plant and/or Materials has become the property of the Employer under this Sub-Clause before it has been delivered to the Site, the Contractor shall ensure that such an item is not moved except for its delivery to the Site.

The Contractor shall indemnify and hold the Employer harmless against and from the consequences of any defect in title or encumbrance or charge (except any reasonable restriction arising from the intellectual property rights of the manufacturer or producer) on any item of Plant and/or Materials that has become the property of the Employer under this Sub-Clause."

The following Sub-Clause 7.9 is added after Sub Clause 7.8:

7.9 Use of Pakistani Materials and Services

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

8.1 Commencement of Works

The following is added before the first paragraph:

"within 14 days, after signing of the Contract Agreement by both Parties," and thereafter the word "The" is replaced with the word "the".

8.5 Extension of Time for Completion

The following is added after paragraph (c):

"for last five years".

The following Sub-Clause 11.12 is added after Sub-Clause 11.11:

11.12 Supervisory Assistance During DNP

If provided under the Schedule of Prices, the Contractor shall provide supervisory assistance to the Employer during the DNP for the Works. Such supervisory assistance shall be as described in the Specification for the purpose of supporting the

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Employer's operation and maintenance of the Plant for the period specified in the Schedule of Prices after the Date of Completion.

12.2 Method of Measurement

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

"Summary of measured quantity for payment shall be delineated item-wise under four heads namely; "Schedule of Prices Quantity", "Quantity Executed To-date", "Quantity Certified Previously" and "Net Quantity Executed under this Certificate".

12.3 Valuation of the Works

After sub-paragraph (c) delete the text of 5th paragraph "Each new rate…… …..relevant matters" and substitute with the following:

"the valuation will be carried out on the basis of applicable item rates of MRS Punjab Schedule of Rates 2026 2nd Biannual with the application of awarded premium / rebate.

Failing above, the valuation will be carried out by the Engineer on the basis of similar items covered in the Bill of Quantities, insofar as such rates or prices apply and where such rates or prices do not directly apply, the value shall be based on the rates or prices deduced therefrom so far as it is practicable to do so. If the same is not provided in the Bill of Quantities, then the valuation will be carried out on the basis of actual with the application of current market rates for labour, material etc. No escalation on account of material, labour, POL etc. shall be allowed on such items if the valuation is carried out on the basis of current market rates and the percentage of overheads, taxes & profit, etc. to be allowed in such cases shall be twenty five percent (25%)."

13.4 Provisional Sums

The following paragraph is inserted as the penultimate paragraph:

"The Provisional Sum shall be used to cover the Employer's share of the DAB members' fees and expenses, in accordance with Clause 21. No prior instruction of the Engineer shall be required with respect to the work of the DAB. The Contractor shall submit the DAB members' invoices and the satisfactory evidence of having paid 100% of such invoices as part of the substantiation of those Statements submitted under Sub-Clause 14.3."

13.6 Adjustments for Changes in Laws

The following paragraphs are added at the end of the Sub- Clause:

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"Notwithstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the Table of Adjustment Data in accordance with the provisions of Sub-Clause 13.7 [*Adjustments for Changes in Cost*]."

14.2 Advance Payment

14.2.1 Advance Payment Guarantee

The entity issuing the Advance Payment Guarantee and its form shall be as under:

The Advance Payment Guarantee shall be in the form of Guarantee issued by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan.

14.2.2 Advance Payment Certificate

Add the following at the end:

"The Engineer shall issue an Advance Payment Certificate for the advance payment in following two equal parts:

(i) first part within 14 days after signing of the Agreement or the date of receipt of Engineer's Notice to Commence, whichever is earlier; and

(ii) 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, bringing/installing/erecting of essential equipment and mobilization of minimum mandatory staff to complete the requirement for the entire work, having fulfilled his obligation under the Contract agreement for provision of facilities for the Engineer such as Site office, transport etc. and his own facilities such as contractor's camp, storage yards, etc. and having completed at least 2% of the permanent works (to be assessed by the Engineer during this time period."

14.6 Issue of IPC

14.6.1 The IPC

In the first line of the 1st paragraph the words "28 days" are substituted by "14 days".

14.7 Payment

Delete '.' At the end of last paragraph and add the

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words "or through crossed cheque in favour of the Contractor."

14.8 Delayed Payment

In the first paragraph, third line, the words "compounded monthly" are deleted.

The text of 2nd paragraph is deleted and substituted with the following:

"The Employer shall pay to the Contractor compensation at the rate stated in the Contract Data."

15.2 Termination for Contractor' Default

15.2.1 Notice

Following text is added at the end of sub-paragraph (h) of this Sub-Clause:

"For the purposes of this Contract, corrupt and fraudulent practices have been defined in Public Procurement Rules 2026."

15.2.3 After Termination

The word "and" at the end of sub-paragraph (ii) of paragraph (b) is deleted. The following paragraph is added after sub-paragraph (iii):

"(iv) all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 *[Employer-Supplied Materials and Employer's Equipment],* and"

15.4 Payment after Termination for Contractor's Default

The following text is added at the end of this Sub-Clause:
"The Employer shall be entitled to sell any of the Contractor's Equipment, Temporary Works and unused materials and apply the proceeds of sale towards payment of any debt due from the Contractor to the Employer under this Clause including any outstanding payments to the Subcontractors."

16.2 Termination by Contractor

16.2.1 Notice
The sub-paragraph (j) is deleted in its entirety.
At the end of sub-paragraph (i) "; or" is replaced with "." and at the end of sub-paragraph (h) ";" is replaced with "; or".
In sub-paragraph (f) "84 days" are replaced with "180 days" and text "for reasons not attributable to the Contractor" is added at the end.

16.3 Contractor's Obligations After Termination

Sub-paragraph (c) is deleted and replaced with:
"(c) deliver to the Engineer all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 *[Employer-Supplied Materials and*

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Employer's Equipment]; and

(d) remove all other Goods from the Site, except as necessary for safety, and leave the Site."

17.1	**Responsibility for Care of the Works**	After the two instances of "Goods" in the last paragraph, the words "Employer-Supplied Materials and/or Employer's Equipment" are added.

The following Sub-Clause 17.7 is added after Sub-Clause 17.6:

17.7	**Use of Employer's Accommodation/ Facilities**	The Contractor shall take full responsibility for the care of the items of the Employer's facilities and/or accommodation, if any, as detailed in the Specification, from the date of use and/or occupation by the Contractor until the date on which such use and/or occupation is re-vested in the Employer. If any loss or damage happens to any of the above items during a time while the Contractor is responsible for its care, arising from any cause other than a cause for which the Employer is responsible or liable, the Contractor shall promptly rectify the loss or damage at the Contractor's risk and cost.
18.1	**Exceptional Events**	The words "or disorder" are replaced with "disorder or sabotage" in sub-paragraph (c) of the Clause.
18.4	**Consequences of an Exceptional Event**	The following is added at the end of sub-paragraph (b) after deleting the ".": ", including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Exceptional Events, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 19.2 [*Insurance to be provided by the Contractor*]."
18.5	**Optional Termination**	In sub-paragraph (c), the words "and necessarily" are added after the words "was reasonably".
19.1	**General Requirements**	Following text is added at the end of first paragraph: "The Contractor shall immediately after the date of the Letter of Acceptance submit the draft of insurance policies for the Employer's consent." Following text is added at the end of third paragraph: "The Contractor shall, within the respective periods stated in the Contract Data submit to the Engineer and the Employer a) evidence that the insurances described in this Clause have been effected, and b) copies of policies of the insurances described in Sub-Clauses 19.2.1, 19.2.4 and 19.2.5."

19.2	**Insurance to be provided by the Contractor**	19.2.5 Injury to employees The words “sickness, disease” are deleted in the third line of first paragraph. The following Sub-Clause is added after Sub-Clause 19.2.6: 19.2.7 Insurance Company “The Contractor shall be obliged to place all insurances described in this Clause with insurers listed in the Contract Data with min. rating of AA by PACRA/VIS.
21.1	**Constitution of the DAAB**	Delete the text of Sub-Clause 21.1 in its entirety and replace with the following: Disputes shall be adjudicated by a DAB in accordance with Sub-Clause 21.4 [*Obtaining DAAB’s Decision*]. The Parties shall jointly appoint a DAB by the date 28 days after a Party gives notice to the other Party of its intention to refer a dispute to a DAB in accordance with Sub-Clause 21.4. The DAB shall comprise, as stated in the Contract Data, of one suitably qualified person ("the member"). The members shall be selected from those on the list on PEC Website, other than anyone who is unable or unwilling to accept appointment to the DAB. The agreement between the Parties and the sole member ("adjudicator") shall incorporate by reference the General Conditions of Dispute Adjudication Agreement contained in the Appendix to FIDIC Conditions of Contract for Plant Design-Build, First Edition 1999, with such amendments as are agreed between them. The terms of the remuneration of the sole member shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration. If at any time the Parties so agree, they may appoint a suitably qualified person to replace the member of the DAB. Unless the Parties agree otherwise, the appointment will come into effect if the member declines to act or is unable to act as a result of death, disability, resignation or termination of appointment. The replacement shall be appointed in the same manner as the replaced person was required to have been nominated or agreed upon, as described in this Sub-Clause. The appointment of the member may be terminated by mutual agreement of both Parties, but not by the Employer or the Contractor acting alone. Unless otherwise agreed by both Parties, the appointment of the DAB (including the member) shall expire when the DAB has given its decision on the dispute referred to it under Sub- Clause 21.4 [*Obtaining DAAB’s Decision*],

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unless other disputes have been referred to the DAB by that time under Sub-Clause 21.4, in which event the relevant date shall be when the DAB has also given decisions on those disputes.

21.3 Avoidance of Disputes Delete the Sub-Clause 21.3 in its entirety.

21.4 Obtaining DAAB's Decision In the 1st paragraph of Sub-Clause 21.4 after the words "if a dispute arises between the parties then, "add the following:

"after a DAB has been appointed";

Delete the words " (whether or not any informal discussions have been held under Sub-Clause 21.3 [*Avoidance of Disputes]*); .
.21.4.1 " Reference of a Dispute to the DAAB"
Delete Sub-Paragraph (a) of Sub-Clause 21.4.1.

21.6 Arbitration The word "international" is deleted in the sixth line of first paragraph. The text of sub-paragraph (a) is substituted with the following:
"the Dispute shall be finally settled under the Rules of Arbitration, specified in the Contract Data;"

The following Clauses are added after Clause 21

22 Custom Duty The Contractor shall be liable to pay custom duty arising out of the Contract. The rates and prices as stated in the contract shall be deemed to cover all such duties.

23 Taxes The Contractor, Subcontractors and their employees shall be liable to pay income tax, withholding tax, super tax and other taxes on income arising out of the Contract. The rates and prices as stated in the contract shall be deemed to cover all such taxes.

24 Integrity Part If it is found and established at any stage that the Contractor or any of his Subcontractors, agents or servants have violated or involved in violation of the Integrity Pact signed by the Contractor 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, agent 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, agent or servants.

The termination under sub-paragraph (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clause 15.1 to 15.4 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the Employer under sub- paragraph (a) and (c) of this Sub-Clause

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION X: CONTRACT FORMS

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Notification of Award

(On Procuring agency/Employer's letterhead)

Letter of Acceptance

[Date]. . . . . .

To: . . . . .[Name and address of the contractor]

Subject: . . . . .[Notification of Award Contract No.]

This is to notify you that your Bid dated . . . . …….[date]. . . . . …… for execution of the . . . . .[name of the contract and identification number, as given in the Bid Data Sheet] . . . . . for the Accepted Contract Amount of the equivalent of . . . . . [amount in words and figures and name of currency]. . . . ., as corrected and modified in accordance with the Instructions to Bidders, is hereby accepted by our Agency.

You are requested to furnish the Performance Security within 28 days in accordance with the Conditions of Contract, using for that purpose the Performance Security Form included in Section 9 (Contract Forms) of the Bidding Document.

Authorized Signature: .....

Name and Title of Signatory: .....

Name of Agency: .....

Attachment: Contract Agreement

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Form of Contract

THIS AGREEMENT made the _____ day of _____ 20_____ between *[name and address of Procuring agency/Employer]* of Pakistan (hereinafter called "the Procuring agency/Employer") of the one part and *[name of Contractor]* of *[city and country of Contractor]* (hereinafter called "the ") of Contractor other part:

WHEREAS the Procuring agency/Employer desired that the works *[brief description of works]* should be executed by the contractor, and has accepted a Bid by the contractor for the execution and completion of these works and remedying of any defects therein, in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

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

2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

    (a) This form of Contract;
    (b) Letter of Acceptance;
    (c) The completed Letters of Technical & Financial Bid submitted by the Bidder ;
    (d) the Particular Conditions, Part-A – Contract Data;
    (e) the Particular Conditions, Part-B – Special Provisions;
    (f) the General Conditions;
    (g) the Specifications Part-A – Specific Provisions;
    (h) Bill of Quantities
    (i) the Drawings;
    (j) the Specifications Part-B – Technical Provisions
    (k) [*add here: any other documents*]

3. In consideration of the payments to be made by the Procuring agency/Employer to the contractor as mentioned in this contract, the contractor hereby covenants with Procuring agency/Employer to execute the works to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring agency/Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

Signed, sealed, delivered by _____the _____ (for the Procuring agency/Employer)	Signed, sealed, delivered by _____the _____ (for the Contractor)

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Witness to the signatures of the Procuring agency/Employer ……	Witness to the signatures of the Contractor ……

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Performance Guarantee Form

To: *[name of Procuring agency/Employer]*

WHEREAS *[name of Contractor]* (hereinafter called "the contractor") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for the execution of *[insert name of the works and its brief description] (*hereinafter called "the Contract").

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

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

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

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

_____

[name of bank or financial institution]

_____

[address]

_____

[date]

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Advance Payment Security

Demand Guarantee

_____

Beneficiary: _____

Date: _____

ADVANCE PAYMENT GUARANTEE No.: _____

Guarantor: _____

We have been informed that [Inset name of the Contractor] (hereinafter called “the Contractor”) has entered into Contract No. _____ dated _____ with the [insert name of the Procuring agency/Employer] (hereinafter called “the Procuring agency/Employer”) for the execution of _____ (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum _____ (_____) is to be made against an advance payment guarantee.

At the request of the Contractor, we as Guarantor, hereby irrevocably undertake to pay the Procuring agency/Employer any sum or sums not exceeding in total an amount of _____ upon receipt by us of the Procuring agency/Employer’s complying demand supported by the Procuring agency/Employer’s statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

(a) has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or

(b) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Contractor has failed to repay.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Procuring agency/Employer’s bank stating that the advance payment referred to above has been credited to the Contractor on its account number _____ at _____..

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as specified in copies of interim statements or payment certificates which shall be presented to us.

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

_____

[signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

Retention Money Security
Demand Guarantee

_____ *[Guarantor letterhead or SWIFT identifier code]*

Beneficiary: _____ *[Insert name and Address of Procuring agency/Employer]*

Date: _____*[Insert date of issue]*

RETENTION MONEY GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _____ *[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Contractor") has entered into Contract No. _____ *[insert reference number of the contract]* dated _____ with the Procuring agency/Employer, for the execution of _____ *[insert name of contract and brief description of* Works*]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, the Procuring agency/Employer retains moneys up to the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, payment of *[*insert the second half of the Retention Money *or if the amount guaranteed under the Performance Guarantee when the Taking-Over Certificate is issued is less than half of the Retention Money,* the difference between half of the Retention Money and the amount guaranteed under the Performance Security and, if required, the ES Performance Security*]* is to be made against a Retention Money guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ *[insert amount in figures]* (_____) *[amount in words]* upon receipt by us of the Procuring agency/Employer's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without your needing to prove or show grounds for your demand or the sum specified therein.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Procuring agency/Employer's bank stating that the second half of the Retention Money as referred to above has been credited to the contractor on its account number _____ at _____ *[insert name and address of Contractor's bank]*.

This guarantee shall expire no later than the …. day of ……, 2…, and any demand for payment under it must be received by us at the office indicated above on or before that date.

_____

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

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 Number: _____ Dated: _____
Contract Value: _____
Contract Title: _____

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

Without limiting the generality of the foregoing [Name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fee 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 consultations 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 Contractor] 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, representative or warranty.

[Name of Contractor] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to 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 Contractor] 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 time the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

_____ _____
[Procuring agency/Employer] [Contractor]

Declaration of Ultimate Beneficial Owners Information for Public Procurement Contracts.

1. Name
2. Father's Name/Spouse's Name
3. CNIC/NICOP/Passport No.
4. Nationality
5. Residential address
6. Email address
7. Date on which shareholding, control or interest acquired in the business.
8. In case of indirect shareholding, control or interest being exercised through intermediary companies, entries or other legal persons or legal arrangements in the chain of ownership or control, following additional particulars to be provided:

1	2	3	4	5	6	7	8	9	10
Name	Legal form (company/limited Liability Partnership/ Association of Persons/Single Member Company/Partnership Firm/individual/other individual, body corporate (to be specified)	Date of incorporation/registration	Name of Director(s)	Business Address	Country	Email address	Percentage of shareholding, control or interest of BO in the legal person or legal arrangement	Percentage of shareholding, control or interest of legal person or legal arrangement in the Company	Identity of natural person who ultimately owns or controls the legal person or arrangement

9. Information about the Board of Directors (details shall be provided regarding number of shares in the capital of the company as set opposite respective names).

1	2	3	4	5	6	7	8
Name and surname (in Block Letters)	CNIC No. (in case of foreigner, Passport No.)	Father's/Husband's Name in full	Current Nationality	Any other Nationality (ies)	Occupation	Residential address in full or the registered office address for a subscriber other than natural person	Number of shares taken by each subscriber (in figures and words)
			Total numbers of shares taken (in figures and words)				

10. Any other information incidental to or relevant to Beneficial Owner(s).

Name and signature
(Person authorized to issue notice on behalf of the company)

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GUN & COUNTRY CLUB, ISLAMABAD

CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

TCEHNICAL BID

BIDDING DOCUMENTS
VOLUME - II

SPECIFIC PROVISIONS
TECHNICAL PROVISIONS

OCTOBER, 2026

National Engineering Services Pakistan (Pvt) Limited
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Clearance Code		Doc No.		Rev No.	

SPECIFICATIONS – SPECIFIC PROVISIONS

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THE SPECIFICATIONS PART A – SPECIFIC PROVISIONS

1. GENERAL

1.1 The Specifications Part A – Specific Provisions shall form an integral part of Bid and the Contract documents.

1.2 The Contractor shall notify all sub-contractors of the provisions of these Specific Provisions.

2. DESCRIPTION OF PROJECT, WORKS INVOLVED AND SITE

Gun & Country Club, Islamabad intends to construct its new 100 Meter Shooting Range.

The scope of works mainly comprises Civil, Electrical, Plumbing, and related ancillary works lying within the boundaries and limits as shown on the drawings and any such additional areas adjacent thereto as may be designated by the Engineer from time to time for the construction to be performed under the Contract, and all such areas and additional areas shall comprise the Site.

3. CODES, STANDARDS AND CERTIFICATES

A. Applicable Standards

Except as otherwise provided by these Specifications or the Drawings, all materials, equipment and fabrication and testing thereof shall conform to the latest applicable standards and codes referred in the Specifications.

If the Contractor, at any time and for any reason, wishes to deviate from the above standards or desires to use material or equipment not covered by the above standards, he shall state the exact nature of the changes, the reason for making the change and shall submit complete specifications of the materials and equipment to the Engineer for approval.

B. Standards other than those Specified

Where requirements for materials or equipment are specified by reference to a standard which has its origin in one country, it is not the intention to restrict the requirements solely to that standard and that country. Other standards, including standards of other countries, will be accepted provided the requirements thereof, in the sole opinion of the Engineer, are at least equal to the requirements of the standard specified. The Contractor may propose to the Engineer an equivalent standard other than that specified, in which case he shall submit the proposed standard and all other information required and shall submit written proof that his proposed standard is equivalent in all significant respects to the standard specified. All submissions must be made in the English language.

C. Codes and Standards at Site

The Contractor shall supply and have at his site office: -

a) Copies of all latest editions of codes and standards referred to in these Specifications or equivalent codes and standards as approved by the Engineer.

b) Catalogues and published recommendations from manufacturers supplying products and materials for the project.

c) The Contractor shall provide manufacturer's or supplier's materials which must meet the requirements of a specific code or standard as stated in these Specifications.

4. MANUFACTURER'S RECOMMENDATIONS

Installation of manufactured items shall be in accordance with procedures recommended by the manufacturer or as approved by the Engineer.

5. UNITS OF MEASUREMENTS

The FPS System of Units shall be used throughout the Project.

6. EXISTING CONDITION AT SITE

Drawings and information pertaining to existing project conditions are furnished for reference. Neither the Employer nor the Engineer warrants the adequacy or correctness of these. The Contractor's are encouraged to visit the project site to assess the existing site conditions.

7. PROTECTION AND PRECAUTIONS

The Contractor and his sub-contractors shall afford all necessary protection to existing structures and will be required to make good at his own expense any damage done to such structures through his own or his representatives or subcontractors' fault and negligence.

The Contractor and his sub-contractors shall afford all necessary protection to existing roads in the area. He will clear and make good at his own expense any damage to or debris on these roads through his own fault and negligence. He must at all time ensure the free and normal flow of traffic and shall not cause obstruction to the traffic system. The Contractor and his sub-contractors shall provide and maintain necessary protection a precautionary measure such as warning signs, warning lamps and barricades etc. to prevent accidents.

The Contractor shall promptly correct all such damage to original condition at no additional expense to the Employer.

The Contractor shall cooperate with trades performing work under other Contracts as necessary for completion.

8. SEQUENCE OF CONSTRUCTION

The Contractor shall submit his proposal for approval of the Engineer the sequence of Construction, prior to starting the works. The works shall be executed as per approved sequence of construction

9. LINES AND LEVELS

Survey control points will be established by the Engineer. The Contractor shall be responsible for verifying these and shall be responsible for all requirements necessary for the execution of any work to the locations, lines and levels specified or shown on the drawings, subject to such modifications as the Engineer may require as work progresses.

10. PLANT, EQUIPMENT AND TOOLS

The Contractor shall provide at his cost modern plant, equipment and tools, adequate and befitting to the nature, magnitude and size of this Contract, in strict compliance with the requirements of the General Conditions of Contract, Conditions of Particular Applications and Technical Specifications.

11. PARTIAL POSSESSION

Whenever, as determined by the Employer any portion of work performed by the Contractor is in a condition suitable for use, the Employer may take possession of or use such portion.

Such use by the Employer shall in no instance be construed as constituting final acceptance, and shall neither relieve the Contractor of any of his responsibilities under the Contract, nor acts a waiver by the Employer of any of the conditions thereof, provided that the Contractor shall not be liable for the cost of repairs, re-work, or renewals which may be required due to ordinary wear and tear resulting from such use. However, if such use increases the cost or delays to the completion of remaining portions of work, the Contractor will be entitled to an equitable adjustment.

If, as a result of the Contractor's failure to comply with the provision of the Contract, such use proves to be unsatisfactory, the Employer will have the right to continue such use until such portion of the work can, without injury to the Employer, be taken out of service for correction of defects, errors, omissions, or replacement of unsatisfactory materials or equipment, as necessary for such work to comply with the Contract; provided that the period of such operation or use pending completion of appropriate remedial action shall not exceed twelve months unless otherwise mutually agreed upon in writing between the parties.

12. EXISTING SERVICES

The Contractor shall search for, find, locate and protect any wiring, cable, duct, pipework, etc., within or immediately adjoining the site area.

The Contractor shall take full responsibly for safety of existing service lines, utilities and utility structures uncovered or encountered during excavation and construction operations.

The Contractor shall take full responsibility for damaging any such service lines, utility/utility structure and any cost and/or expense that arises or issues from any such damage shall be borne directly by himself. Should any damage to any such service occur the Contractor shall forthwith take remedial action, initiate safety precautions, install temporary services and carryout repair all at his own cost and expense and inform the Engineer and notify all relevant authorities.

Existing utilities which are to remain in service for or after the works are to be determined by the Contractor. If any existing service lines, utilities and utility structures which are to remain in service are uncovered or encountered during these operations, they shall be safeguarded, protected from damage, and supported. The Contractor shall preserve, maintain and keep in perfect working conditions, any existing facilities required to be preserved by the Employer/the Engineer.

13. CONSTRUCTION AREA AND ACCESS

The Employer will provide the Contractor possible space within or nearby the area of site of works for the storage of plant, equipment and materials and for Contractor's temporary office, during the currency of the Contract. In case the adjacent area as required by the Contractor is not available within the Project boundary for storage of plant, equipment and machines then the Contractor shall arrange at his own expense possible space for storage of plant, equipment and machines at his own cost and expense. On no account shall such temporary installations conflict/interfere with any of the permanent installations, services and any operational function of Employer. The handling and storage of all plants, equipment and materials at site shall be the sole responsibility of the Contractor and at no risk and cost to the Employer.

The Contractor shall protect all material against corrosion, mechanical damage or deterioration during storage and erection on site. The protection methods shall be to the approval of the Engineer

14. CONSTRUCTION AND CHECKING AT SITE

The Contractor shall submit to the Engineer in due time for approval and discussion, his proposals and plans as to the method and procedure to be adopted for the temporary and permanent works involved.

The submitting to these suggestions and arrangements, and the approval thereof by the Engineer shall not relieve the Contractor of his responsibilities and duties under the Contract.

The carrying out of all work included in the Contract is to be supervised by a sufficient number of qualified representatives of the Contractor and full facilities and assistance are to be afforded by the Contractor for the Engineer or his Representative to check and examine the execution of the work.

The Engineer reserves the right to inspect all parts of the works but may at his discretion waive inspection on certain items. This shall in no way absolve the Contractor from his responsibilities. This particularly applies to the checking of materials, the accurate setting out of foundations, and to the leveling, setting and aligning of the various parts, and to the proper fitting and adjustment of manufactured and finished materials and fixtures in position.

If the Engineer or his Representative find that the work progress is slow in such a way that the works or parts thereof will not be completed in the time specified, then he shall order the Contractor to work overtime or in shifts and the Contractor shall comply. These arrangements will be free of all financial encumbrances and at no additional costs to the Employer.

In the event of night work, the Contractor shall provide sufficient and adequate lighting to the satisfaction of the Engineer or his Representative and shall supply the necessary manpower for satisfactory continuation of the work after normal hours.

15. STORAGE & HANDLING FACILITIES

The Contractor shall make his own arrangements for providing the necessary space for the storage of plant, equipment and materials and for Contractor's temporary office, in and around the site of works, during the currency of the Contract.

16. PRODUCT DATA

Manufacture’s standard schematic drawings shall be modified or deleted to indicate only information which is applicable to the project. Such standard information shall be supplemented to provide all additional applicable information.

Manufacturer’s catalogue sheets, brochures, diagrams, schedules, performance charts, illustrations and other standard descriptive literature shall be clearly marked to identify pertinent materials products or models. Dimensions and required clearances shall be indicated. Shop performance characteristics and capacities shall be noted.

17. PRODUCT QUALITY AND HANDLING

Suppliers of local and foreign products and installations specified shall have been regularly engaged in the business of manufacturing, fabricating, installing and / or servicing work required for a period not less than 5 years. In addition, the Engineer may request as appropriate a:

- list of similar installations that describes project, scope and date of completion.
- complete literature, performance data, and technical data.

- list of services record within Pakistan.

- location of service office from which this installation could be maintained.

For the actual fabrication, installation and testing of the specified work use only thoroughly trained and experienced workmen completely familiar with the items required and with the manufacturers recommended methods of installation. In acceptance or rejection, no allowance will be made for the lack of skill on the part of workmen.

Use all means necessary to protect materials before, during and after installation and to protect the installed work and materials of all other trades. In the event of damage, immediately make all repairs and replacement necessary for approval and at no additional cost to the Employer.

18. INSPECTION & TESTS REPORTS

All equipment and materials furnished under these specifications and all work performed in connection therewith will be subject to rigid inspection by the Engineer or the Engineer's Representative. Acceptance of equipment and material or the waiving off inspection thereof shall in no way relieve the Contractor of his responsibility for meeting the requirements of the Contract.

The Contractor shall furnish the Engineer with certified true copies of test reports of all materials used in the manufacture and fabrication of all equipment and material including metal work, steel pipes, fire bricks etc. The result of these tests shall be in such form as to show compliance with the applicable Specifications, standards and codes for the material used.

19. FIELD LABORATORY AND TESTING

19.1 General

The Contractor shall provide and maintain a field laboratory equipped with approved equipment to perform all the tests required by the Engineer. The quality control testing shall be performed by the Contractor's competent personnel in accordance with a site testing and quality control programme to be established by the Contractor and approved by the Engineer. The Engineer may however, require certain tests to be performed in any other laboratory designated by him.

The Contractor shall provide laboratory helpers to the Engineer for testing. The laboratory shall be run by a qualified material Engineer and Laboratory Technician to be employed by the Contractor.

The Field Laboratory, including all equipment and staff shall be placed at the disposal and direction of the Engineer during the Contract.

The Contractor shall keep a complete record of all quality tests performed on site.

All quality control and tests shall be carried out in accordance with applicable standards and codes.

19.2. Field Laboratory Equipment Requirements

The Laboratory shall be equipped with new unused and latest Equipment to perform tests as per Technical Specifications and General Conditions of Contract. Additional equipment/materials shall be supplied by the Contractor as and when required by the Engineer to perform any specified test, at no additional cost to the Employer.

The laboratory shall also be equipped with new unused furniture, fittings and fixtures.

If any equipment, furniture, fitting or fixture becomes unserviceable for any reason what so ever, the Contractor shall promptly replace the same as and when directed by the Engineer.

19.3. Testing Laboratory Certificates

The Engineer may accept a certificate from a commercial testing laboratory, satisfactory to him, certifying that the product has been tested within a period acceptable to the Engineer and that it conforms to the requirements of these specifications.

19.4. Method of Payment

The cost of providing running and maintenance of the laboratory, equipment, materials and staff, testing charges for materials supplied by the Employer and all other tests to be performed in any other laboratory designated by the Engineer shall be deemed to be included in the price quoted by the Contractor and no separate claim for payment on this account shall be entertained by the Engineer. Furthermore, the cost of any additional laboratory, field and shop tests required through the resubmission of samples because of failure of compliance with Specifications shall be borne by the Contractor.

In case the Contractor does not provide the specified equipment and testing facility, cost of testing plus 100 percent overheads shall be recovered from his bills.

20. SURVEYING INSTRUMENTS

20.1 General

The minimum quantity of survey equipment is stated below which shall be available with the Contractor at site of Works along with qualified Surveyors and Survey Helpers. The equipment shall be maintained throughout the Contract Period and replaced by the Contractor in case of damage or loss. The survey equipment shall be made available to the Engineer when requested. All surveying equipment shall be in good working condition.

20.2 Surveying Equipment Required

The Contractor shall provide and maintain the following surveying equipment at site.

a) Total Station with staff 01 No.
b) Automatic Levels with tripods & staff 02 Nos.
c) All other miscellaneous tools, equipment and materials required in surveying.

21. APPROVAL OF MATERIALS AND PLANT

21.1 QUALITY OF MATERIALS

All materials, fixtures, fittings, supplies and plant furnished under the Contract shall be new and unused, standard first grade quality and of the best workmanship and design. No inferior or low-grade materials, supplies or articles will be either approved or accepted, and all work of assembly and construction shall be done in a first-class and workmanlike manner. In asking for prices for materials intended for delivery to the Site and incorporation in the Works under any portion of these Specifications, the Contractor shall provide the manufacturer or supplier with complete information as may be necessary to secure compliance to this Clause and, in every case, he shall quote this Clause in full to each such manufacturer or supplier.

21.2 SUBMISSION OF SAMPLES AND DATA

21.2.1 The Contractor shall furnish for approval of the Engineer with reasonable

promptness all samples as directed by the Engineer or specifically called for in the Specifications and in accordance with the time schedule provided in the schedule of submittals. The Engineer shall check and approve such samples with reasonable promptness only for conformance with the design concept of the Works and for compliance with the information given in the Contract Documents. All work shall be in accordance with approved samples.

21.2.2 Samples shall be furnished so as not to delay fabrication, allowing the Engineer reasonable time for consideration of the sample submitted.

21.2.3 Each sample shall be properly labeled with the name and quality of the material, manufacturer's name, name of the project, the Contractor's name and the date of submission, and the Specifications Article number to which the sample refers.

21.2.4 The manufacturer's installation directions shall be provided with each sample. The Contractor shall pay all transportation costs and deliver samples to the Engineer's office, Site or testing laboratory as directed by the Engineer.

21.2.5 Samples shall be of adequate size to permit proper evaluation of the material by the Engineer. Where variations in colour, texture, dimensions or other characteristics are to be expected, the Contractor shall submit samples showing the maximum range of variation. Materials exceeding the range of variation of the approved samples shall not be used on the Work.

21.2.6 In order to permit coordinated selection of colours and finishes, the Contractor shall deliver samples of all related items to the Engineer at one time. Samples of such materials will not be approved until all related samples have been submitted.

21.2.7 If both Shop Drawings and samples are required for the same item, the Engineer may require both to be submitted before approving either.

21.2.8 The Contractor shall erect Mock-up samples of finished items where specifically called for in the documents or as directed by the Engineer.

The Mock-up samples shall be preserved/protected by the Contractor till the end of the project or as directed by the Engineer.

21.2.9 No acceptance or approval of any Shop Drawings or sample, or any indication or request by the Engineer on any Shop Drawings shall constitute an authorization for any increase in the Contract Sum.

21.3 INSPECTION

All material and Plant furnished and all work performed under this Contract will be subject to inspection by the Employer and the Engineer at all times and in all states of completion both off-Site and on-Site. The Contractor shall furnish promptly without additional charge, all facilities, labour and materials reasonably needed for performing such inspection and testing as may be required by the Engineer.

21.4 APPROVED SAMPLE AT SITE

The Contractor shall, at all times, keep on the Site approved samples. All such samples shall be made available to the Engineer as and when required.

22. BAR BENDING SCHEDULE

Bar bending (reinforcement bars) schedule of all structural drawings shall be prepared by the Contractor and submitted in triplicate to the Engineer for approval.

23. DRAWINGS

23.1 BID DRAWINGS

Bid Drawings issued with the Bid Documents, called the Bid Drawings, show scope of the work to be performed by the Contractor. The Drawings are generally in sufficient detail so as to be used as a basis for construction, fabrication and for placing orders for materials subject to corrections based on the future issue of supplementary Drawings as provided under Sub-Clause 23.2 hereof.

23.2 CONSTRUCTION DRAWINGS, SUPPLEMENTARY DRAWINGS

Upon commencement of the works and furnishing by the Contractor stake out survey plan and natural ground levels, the Engineer shall issue Construction Drawings to the Contractor. The Construction drawings may be issued in stages, where necessary.

The Engineer shall have authority to issue to the Contractor, from time to time, such supplementary Drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and completion of the Works and the remedying of any defects therein. The Contractor shall follow these drawings.

When additional information regarding the geological formations or other conditions becomes available, the Engineer may find it desirable to change dimensions or design of one or more of the features of the Works to conform to the newly disclosed conditions. The Engineer reserves the right to make such reasonable changes, and the Contractor’s operations shall be conducted so as to accommodate any such reasonable changes in the Works.

23.3 DEFINITION OF TERM DRAWINGS

The term Drawings as used in the Specifications means the Drawings referred in Clauses 23.1 and 23.2 above.

23.4 CHECKING OF DRAWINGS

The Contractor shall check all Drawings carefully as soon as practicable after receipt thereof, and shall promptly notify the Engineer of any errors discovered.

23.5 COPIES OF DRAWINGS

Drawings will be issued to the Contractor as described below:

23.5.1 CONSTRUCTION DRAWINGS

Two (2) sets of the Construction Drawings will be issued to the Contractor as stated above, free of charge. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

23.5.2 SUPPLEMENTARY DRAWINGS

Two (2) prints of each supplementary Drawing will be issued to the Contractor free of charge. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

23.6 DRAWINGS TO BE FURNISHED BY THE CONTRACTOR

The Contractor shall submit to the Engineer for review, such drawings as are required under the Contract, sufficiently in advance of the work intended to be executed.

23.6.1 REINFORCEMENT DRAWINGS

Reinforcement placement drawings and bar bending schedules (to be provided by the Contractor as per clause 22 above) of all RCC work shall be prepared by the Contractor and submitted in triplicate to the Engineer for approval, sufficiently in advance of the works in which they are intended to be used.

23.6.2 SHOP DRAWINGS

(a) The Contractor shall submit to the Engineer for review three (3) copies of all drawings to be issued for setting out, fabrication, supply order and construction; based on data, requirements, dimensions, details, codes, standards and design provided in the drawings issued by the Engineer. Such drawings shall be submitted at least seven (7) days before they are required for use. If within a period of seven (7) days after submission, the Engineer notifies the Contractor that a drawing fails to comply with the relevant requirement of the Contract, it shall be rectified and resubmitted for approval at the Contractor's cost. Fabrication or construction shall not commence on any part of the Works until the shop drawings or construction drawings for that part of the Works have been approved by the Engineer.

The Works shall be executed in accordance with the drawings as approved by the Engineer. If the Contractor wishes to modify any approved drawings, he shall immediately notify the Engineer and submit revised drawings for approval. If the Engineer instructs that further drawings are necessary for executing the Works, the Contractor shall prepare such drawings and submit them for approval.

The Contractor at his cost shall rectify errors, omission, ambiguities, inadequacies and other defects.

Approval by the Engineer, in accordance with this paragraph, shall not relieve the Contractor of any of his responsibilities under the Contract.

(b) The shop drawings shall be properly identified indicating the part of the Works, the name of the contractor / supplier etc., the date of preparation and the dates of all revisions. The Shop Drawings shall be complete and shall show the design dimensions, proposed materials to be used, finishes, type of shop paint and all other details in connection thereto.

(c) Where adjoining work requires shop drawings, the Contractor shall prepare and submit composite shop drawings, which shall show and define the work under all affected trades. If the Contractor executes work before coordinating with other trades so as to cause interference with work of those trades, he shall make changes necessary to correct the conditions without extra cost to the Employer.

(d) No changes shall be made by the Contractor in the resubmitted shop drawings in excess of the corrections spelled out by the Engineer and in a separate note on the shop drawings.

(e) No work in the shop shall be started and no material or plant ordered until the Engineer has approved the shop drawings. It shall be the responsibility of the Contractor to submit the shop drawings on a schedule that allows reasonable time for checking and approval and subsequent fabrication. Failure to submit shop drawings in ample

time for checking, correcting, and rechecking will not justify extension of time for completion of the Works.

(f) The Contractor shall also check and verify all site measurements whenever requested by other Specialist Contractors or by other Sub-Contractors to enable them to prepare their own shop drawings and pass on the information with sufficient promptness, so as not to delay the work in any way. A copy of all such information passed on shall be given to the Engineer.

23.6.3 AS-BUILT DRAWINGS

The Contractor shall, at all times, keep on Site a separate set of prints of all drawings on which all significant changes between the work shown on the Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses. The Subcontractor(s) for plumbing, mechanical and electrical shall, at all times, keep on Site, a separate set of prints of the drawings (showing their parts of the Works) on which all significant changes between the work shown on the Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses. Such drawings shall show the exact physical location and configuration of the works as actually installed.

The Contractor shall, within fourteen (14) days of issuance of Taking-Over Certificate for whole of the Works, furnish to the Engineer for his approval two (2) copies of such marked up drawings. One (1) copy of each of the marked up drawings approved by the Engineer shall be returned to the Contractor by the Engineer and these shall be used for the preparation of the As - Built Drawings.

The Contractor shall furnish to the Engineer six (6) complete sets and one reproducible copy of all As -Built Drawings within twenty eight (28) days of receipt of drawings stated above, from the Engineer.

24. PROTECTION OF THE WORKS

The Contractor shall whenever necessary cover up and protect the works from weather and damage by his own or other workmen performing subsequent operation. The Contractor shall provide all necessary dustsheets, barriers and guard rails and clear away the same at completion.

25. RESTORATION AND CLEANING

Upon completion of the works the Contractor shall restore all items covered by the Contract to the satisfaction of the Engineer.

The Contractor shall do regular cleaning and clear away all rubbish and excess materials that may accumulate from time to time on completion and before handing over. Upon completion of the works he shall obliterate all signs of temporary construction facilities such as work areas, structures, foundations of temporary structures, stock piles of excess or waste materials, or any other vestiges of construction, as directed by the Engineer. All buildings shall be cleaned; floors and paving scrubbed and the works and site shall be left in a clean and satisfactory state for immediate use and occupation. Care shall be taken not to use any cleaning materials, which may cause damage to the surface to be cleaned.

The Contractor shall also take all necessary precautions to keep the works and site free from vermin during construction and he shall leave the works vermin free on completion. Application of pest control agents shall not commence until the specific product, name, method and extent of application have been submitted to and approved of by the Engineer.

26. SITE OFFICE AND TEMPORARY FACILITIES TO BE PROVIDED BY THE CONTRACTOR

26.1 CONTRACTOR'S OFFICE, FACILITIES ETC.

The Contractor shall establish and maintain a Site office. The Contractor shall provide all facilities in connection with the execution, completion, of the Works, remedying defects therein and maintenance of the utilities services. The facilities shall not be limited to the Contractor's Site Office, labour camps, work yard and storage areas, temporary water supply, waste water disposal, temporary electricity, medical unit, temporary roads, fire protection and firefighting equipment etc. The Contractor shall be solely responsible for arranging all utilities and the Contractor shall setup, maintain and operate an architectural and engineering facility at site with adequate number of technical and support staff as well as equipment required for particular nature of job covered under the Contract to prepare drawings/shop drawings for approval of the Engineer.

The Contractor shall arrange his labour camp, work yard, storage area and site office.

26.2 TEMPORARY ROADS

The Contractor shall prepare and maintain such temporary roads as may be necessary, from the site to the nearest road and also within the plot. Such roads shall be positioned strictly in accordance with the Engineer's instructions and the Contractor shall reduce or control any dust nuisance by regularly spraying water and compaction as directed.

26.3 TEMPORARY SERVICES

26.3.1 TEMPORARY WATER SUPPLY

The Contractor shall supply in sufficient quantity all necessary potable and other water for construction purposes for all trades at points within a reasonable distance of any building being constructed. The Contractor shall make arrangements and pay charges for water service installation, maintenance and removal thereof, and pay the costs of water for all trades.

At completion of the work, the temporary water services equipment and piping shall be removed by the Contractor at his own expense.

26.3.2 TEMPORARY ELECTRICITY

The Contractor shall make all the necessary arrangements for a temporary electricity service, pay all expense in connection with the installation, operation and removal thereof and pay the costs of electricity consumed by all trades. The Contractor shall arrange and furnish an Electric Power Generating set at site and maintain the generating set in perfect working condition through-out the duration of Contract. The generating power of the set shall be sufficient to operate all plant and equipment as well as the camps and offices of the Contractor and the offices of the Engineer/Employer, during construction at site. Should the set fail to meet the required demand at site or fail to function or operate, the Contractor shall immediately replace the same with other generating set/sets to the satisfaction of the Employer as well as the Engineer.

A temporary lighting system shall be furnished, installed and maintained by the Contractor as required to satisfy the minimum requirements for safety and security and to the satisfaction of the Engineer.

When the permanent electrical power and lighting systems are in an operating condition, they may be used for temporary power and lighting for construction purposes provided that the Contractor obtains the written approval of the Engineer and the Employer and assumes full responsibility for the entire power and lighting system and pays all costs for operation and maintenance of the system.

At completion of construction work, or at such time as the Contractor makes use of permanent electrical equipment and devices, temporary electricity services shall be removed by the Contractor at his own expense.

26.3.3 WASTE DISPOSAL

The Contractor shall make such temporary provisions as may be required in order to dispose of any chemicals, fuels, oils, grease, bituminous materials, waste and soil waste and the like without causing pollution to either the site or the environment. Disposal of any materials, wastes, effluent, garbage, oil, grease, chemicals and the like shall be in areas specified by the concerned local authority proposed by the Contractor and subject to the approval of the Engineer. If any waste material is dumped in unauthorized areas the Contractor shall remove the material and restore the area to the condition of the adjacent undisturbed area. If necessary, contaminated ground shall be excavated, disposed off as directed by the Engineer and replaced with suitable fill material compacted and finished with topsoil all at the expense of the Contractor.

26.3.4 FIRE PROTECTION

The Contractor shall provide and maintain adequate fire protection in the form of barrels of water with buckets, fire bucket tanks, fire extinguisher, or other effective means ready for instant use, distributed around the project and in and about temporary inflammable structures during construction of the works.

Gasoline and other flammable liquids shall be stored in and dispensed from safety containers approved by the Engineer and storage shall not be within building.

Torch-cutting and welding operations performed by the Contractor shall have the approval of the Engineer before such work is started and a chemical extinguisher is to be available at the location where such work is in progress.

The Contractor shall follow the instructions and specifications of the Civil Defense Department or any other local department concerned with such activities.

27. CONSTRUCTION SCHEDULE

A Construction schedule shall be maintained in accordance with the provisions of the General Conditions of Contract.

The schedule shall be accompanied with sufficient data and information including all necessary particulars of constructional plant, equipment machinery, temporary Works, arrival of plant, equipment at site and their installation, method of operation, work forces employed, etc., for activities of the Works.

Should the Engineer consider any alteration or addition in the programme and time schedule, the Contractor shall conform thereto without any cost to the Employer.

Whenever necessary and wherever the progress of the actual work shows departure, the programme and time schedule shall be undated and submitted to the Engineer for his approval.

28. SUBMISSION REQUIREMENTS

28.1 Schedule submission at least sixty days before the dates when reviewed submittals will be needed.

28.2 Submit Shop Drawings as per provision given in Sub-Clause 23.6.2 and number of copies of Product Data which the Contractor requires for distribution plus four copies which will be retained by the Engineer.

28.3 Submit three samples unless otherwise specified.

28.4 Accompany submittals with transmittal letter, in duplicate, containing:

- Date
- Project title and number
- Contractor’s name and address
- The number of each Shop Drawing, Product Data and the Sample submitted.
- Notification of deviations from Contract Documents.
- Other pertinent data.

29. RESUBMISSION REQUIREMENTS

Shop Drawings:

- Revise initial drawings as required and resubmit as specified for initial submittal.
- Indicate on drawings any changes which have been made by the Engineer.
- Product Data and Samples: Submit new data and samples as required for initial submittal.

30. MONTHLY PROGRESS REPORT AND PHTOGRAPHS

30.1 During the continuance of the Contract, the Contractor shall submit monthly progress on forms as approved by the Engineer. Such monthly reports shall show the actual progress completed as of date of the report plotted against the schedule as given by the Contractor at the start of work and shall be broken down so as to indicate status of all activities associated with mobilization, design, material procurement, manufacture, surveys works, tests with regard to the agreed contract programme.

30.2 The Employer and the Engineer reserve the right to coordinate the schedules of this Contractor and other Contractors working at the Site, and to adjust and/or change any and all such schedules as required during the course of construction in order to achieve a coordinated project in harmony with the Employer's completion date.

30.3 Commencing after the first month of construction, and continuing every month until completion, the Contractor shall take and submit photographs to the Engineer's Representative, to show progress of his work and completion of each structure or major feature.

31. CONTRACTOR TO NOTIFY DELAYS ETC.

Any delay which will affect the completion of Works shall be detailed by the Contractor who shall state the action he is taking for effective completion of the Contract programme.

The Contractor shall submit a report in respect of the various sections of the Works, the equipment in use or held in readiness, a return of labour and supervisory staff, and details of any matters arising which may generally affect the progress of the work.

The Contractor shall give a summary of the detailed progress report giving the position with regard to the agreed Contract programme.

The progress reports shall be set out in a format to the approval of the Engineer, and forwarded promptly so that on receipt the information contained therein is not more than 21 days out of date.

If during execution of the Contract, the Employer considers the progress position of any section of the work to be unsatisfactory, or for any other reason relating to the Contract, he will be at liberty to convene a meeting and the Contractor's Representatives are to attend such meeting.

The Contractor's Site Office shall prepare and submit 6 copies of a weekly progress report to the Employer and Engineer's Site Office. This report shall summarize site activities and record and details where difficulties in maintaining the agreed programme are being experienced or are likely to cause subsequent delay.

The Contractor's Site Office shall also prepare and submit to the Engineer's Site Office 2 copies of Daily Activity Report summarizing the main activities to be undertaken each day, noting special activities such a tests, alignment checks, etc. The Contractor shall be responsible for expediting the delivery of all material and equipment to be provided by him and his subcontractors.

32. PHOTOGRAPHS

As soon as work commences on Site, the Contractor shall provide at least 10 to 12 photographs (along with soft copy) of the works from positions to be selected by the Engineer. Each photographic print shall not be less than 297mm x 210mm and shall bear a printed description, a serial number and the date when taken.

The negatives/soft copy of all photographs shall be held at the Contractor's Site Office, numbered and handed over to the Employer at the completion of the Contract.

33. SIGN BOARD

The Contractor shall erect and maintain at the Site in a location to be approved by the Engineer two (2) Sign Boards of dimensions approved by the Engineer. The Sign Boards shall be made of metal. It shall be mounted on steel posts securely anchored and braced. The Contractor shall paint on the Sign Boards, the name of the Works, and the names of the Employer, Engineer and the Contractor both in English and Urdu Language.

34. SITE FACILITIES FOR THE ENGINEER / ENGINEER'S STAFF

The below all facilities shall have to be provided and maintained throughout the Construction Period as well as Defects Notification Period starting from the Commencement of Works. The Contractor shall provide replacement of the facility / facilities if any of the below mentioned is

temporarily or permanently rendered unserviceable for any reason(s) or declared to be beyond repair by the Engineer/Engineer's staff at no additional cost to the Employer.

No separate payment shall be made to the Contractor for the facilities involved under this clause. The cost thereof shall be deemed to have been included in the price quoted by the Contractor for the works.

Failure of the Contractor to do so shall make him liable to bear its cost, which shall be deducted from the Contractor's monthly payment statements for the period given below.

34.1 SITE OFFICE

The Contractor shall construct, provide, furnish and maintain for Engineer, a site office as per design provided in these documents (Annex-A) OR as acceptable to the Engineer along with stabilized access road.

The Contractor shall provide a direct telephone / cell phone sim card along-with internet connection for the Engineer at site up-to an average billing of Rs. 4,000/- per month, one Laptop (Core I-7, minimum with 500 GB Hard disk, 8 Gb Ram), one flash drive of at-least 8 GB capacity each, an A3 size colour printer, stationery & pantry, a digital camera (12.5 pixel minimum) to be fixed at site with DVR for live site progress monitoring, UPS, stabilizers, air conditioners, etc., and the site office shall be connected to the electrical system, potable water supply system and sewage disposal system.

The Contractor shall provide at-least two (02) Office Tables with drawers, two (02) Revolving Chairs, one (01) Side Table for printers etc., six (06) Sitting Chairs, Meeting Room Table with 06-08 Chairs, Steel Filing Cabinet (02-Nos.), one (01) Refrigerator, and sufficient crockery for serving of tea and refreshments etc.. The Contractor shall maintain a pantry along with staff at the Site Office for the Engineer.

The Contractor shall be responsible for the daily cleaning, as well as the running and maintenance of the site office. Site Office shall be connected to the electrical power supply / system, potable water supply system and sewage disposal system. Contractor shall also be responsible for payment of utilities bills for the services provided.

The site office along with all fittings, fixtures and gadgets shall become property of the Employer after the completion of the project and shall be handed over to the Employer along with list of all items given for the use of Engineer. The site office shall be removed /dismantled if directed by the Engineer/Employer. In such case, the area shall be developed in accordance with the drawings or to its natural state and as per the instructions of the Engineer.

34.2 TRANSPORT FACILITY

The Contractor shall provide, minimum 1000 cc fully air-conditioned and very good condition Car along with Driver, exclusively for the pick and drop services for the Engineer's Site Supervision team to meet his transportation needs for the entire duration of actual construction period as well as for the duration of subsequent Defects Notification Period. The Contractor shall be wholly responsible for providing at all times satisfactory operating services including POL, lubricants, maintenance cost etc. for the Engineer.

The conveyance / vehicle for the Professionals travelling from the Engineer's Design Offices to Project Sites shall be arranged and / or reimbursed (as per prevailing approved rates of NESPAK), as per Project need and site visits / meetings.

34.3 TEMPORARY RESIDENCE

The Contractor shall provide and maintain Temporary Residences having bed rooms, kitchen and toilets for the Engineer/ Engineer's Staff (at-least four persons) equipped with all furniture & fixtures, services and utilities for their exclusive.

The Contractor shall be responsible for the daily cleaning, as well as the running and maintenance of the temporary residence. Residence shall be connected to the electrical power supply / system, potable water supply system and sewage disposal system. Contractor shall also be responsible for payment of utilities bills for the services provided.

34.4 SECURITY ARRANGEMENTS & SAFETY GEARS

The Contractor shall make all necessary arrangements for providing Security to the Engineer/ Engineer's Staff, in security concern areas, while liaison through local administration during movement to or residing at project sites.

The Contractor shall also provide and maintain the below mentioned safety gears facilities.

i) Safety helmets / hard hats
ii) Safety Shoes with steel toe
iii) High visibility vest
iv) Safety eyeglasses
v) Specific safety gloves
vi) Specific PPEs i.e. mask, apron, fire blanket and face shield
vii) Ear plug and muff

35. COORDINATION OF WORK AT SITE

The Contractor shall take cognizance that during the execution of the project, other Contractor will be working concurrently on this Site.

All works of his responsibility shall be coordinated by the Contractor so as to give the necessary facilities to other Contractor or their workman or any other employ, who execute or supervise any work on the Site.
The Contractor shall ensure that the necessary safety precaution will be observed and interferences shall be avoided specially for the works executed side by side by different Contractors.

Due consideration must be given to permit access to sections of the work as required by other Contractors for the extension of their works. With a view to coordinate the works, the Engineer may from time to time direct the order of the works to be carried out.

No payment shall be made to the Contractor for the works involved under this sub clause.

36. SITE FACILITIES TO BE PROVIDED BY THE CONTRACTOR

36.1 GENERAL

Without prejudice to the generality of the various clauses of the Contract, particular attention is drawn to the obligation of the Contractor to make his own arrangement at his own expense for the following.

36.2 LABOUR CAMPS AND STAFF RESIDENCES

The Contractor shall provide, operate and maintain labour camps and staff

residences and are required for the proper and efficient progress of the work to house his own employees. For the purposes of operation and maintenance of the Camps and Residences, the Contractor shall comply with the rules of Pakistan Labour Camp Rules 1960 and all other applicable provisions of the Pakistan Labour Laws.

36.3 ADMINISTRATIVE AND FIELD OFFICE

The Contractor shall provide, operate and maintain administrative and field offices required for his staff and would be responsible for Operation and Maintenance, furniture, equipment, appliances, janitor services and security of the same.

36.4 WORK YARDS AND STORAGE AREAS

The Contractor shall provide, operate and maintain all sheds, fencing, foundations and all above ground structures required to store material or equipment brought on to the site by him. The Contractor shall be responsible for the security of his entire camps, residence, site and field offices work yard and storage area.

36.5 WATER SUPPLY, SEWERAGE SYSTEM AND ELECTRICITY

The Contractor shall make his own arrangement, at his own expense for provision, operation and maintenance of electric supply, reasonable supplies of raw and potable water and sewerage system at the site of works and his labour camps, staff residences and offices. The Contractor shall pay all fees, and charges (including bills) of whatsoever nature to the concerned departments (if any) in order to procure connections of the above facilities and thereafter using these facilities.

36.6 MEDICAL CARE

The Contractor shall arrange provision of adequate medical facilities for his employees.

Adequately equipped and properly staffed first aid stations or dispensaries shall be provided by the Contractor at camps and other strategic locations, to administer first aid treatment at all times free of charge to all persons on the Site, including personnel of the Engineer and the Employer. The nature, number and location of facilities furnished and the Contractor's staff for administering first-aid treatment shall meet the requirements of the Health Services of the Government of Pakistan and of Section III of the Manual "Safety Requirements for Construction by Contract", published by the Employer, and shall be subject to approval by the Engineer.

36.7 OTHER FACILITIES

The Contractor shall also be responsible for providing at his own cost other facilities for his own staff and labour such as educational, recreational, transport, telephone and catering if required.

37. CONSTRUCTION PROCEDURES

The Contractor shall advise the Engineer of proposed construction procedures in accordance with the General Conditions of Contract.

If the Engineer shall see that the work progress is slow in such a way that the work will not be completed in the time specified, then he shall order the Contractor to work overtime or in more shifts and the Contractor shall obey these orders without any additional payments and without any objections or request for compensation.

38. NOTIFICATION TO ENGINEER

The Engineer shall be notified daily in writing of the nature and location of the Works the Contractor intends to perform the next day so as to enable necessary inspection and measurement to be carried out. The Engineer may, if necessary, direct that longer notice be given of certain operations.

39. NIGHT WORK

When work is done at night the Contractor shall maintain from sunset to sunrise such lights on or about his work and plant as the Engineer may deem necessary for the proper observations of the work and the efficient execution thereof.

40. WEATHER

No work is to be undertaken when, in the opinion of the Engineer, the weather is so unsuitable that proper protection of the work cannot be ensured.

41. CO-ORDINATION WITH OTHER CONTRACTORS

It shall be the responsibility of the Contractor to keep-up good relations with other Contractors employed on site by the Employer. The Contractor shall cooperate and coordinate his work with that of the other Contractors working at the Site, to whatever extent may be necessary to complete the Project in accordance with the approved programme of the Works and in accordance with the Engineer's instructions. Should a disagreement or dispute arise between the Contractor and other contractors, the same shall be referred without delay to the Engineer for his decision. Upon such decision, the Contractor shall proceed with the work in accordance therewith. In case the access to the works of other contractors is through the Site area of the Contractor, the Contractor shall coordinate with and permit all reasonable access to other Contractors.

42. ACCIDENT PREVENTION, SAFETY MEASURES AND PROTECTIVE EQUIPMENT

The Contractor shall comply and enforce compliance by all his sub- contractors with the highest standards of safety and accident prevention in accordance with international standards and in compliance with all applicable laws, ordinances and statutory provisions.

All requisite barriers, fences, warning signs, lights and other safety precautions as required for the protection of persons and property on or adjacent to the site shall be provided at the Contractor's cost.

All false work, scaffolding and handrails shall be well constructed and secured at all times. Where overhead work is being carried out, warning signs shall be installed at ground level clearly warning of the overhead work.

All warning signs shall be in two languages, English and Urdu, and shall at all times be maintained in a clean and legible condition, to the satisfaction of the Engineer.

Trash shall be removed at frequent intervals to the satisfaction of the Engineer.

Netting shall be provided at all levels where work is in progress, all around the building.

43. SETTING OUT OF WORK AND SURVEY

43.1 REFERENCE POINTS, LINES

The Contractor shall establish benchmarks and / or reference line at the Site in accordance with the instructions of the Engineer. The Contractor shall set out its work

from these benchmarks and lines. The Contractor shall supply plant, equipment, materials and labour for checking if required of the survey control by the Engineer. Slope stakes will be set by the Contractor before commencement of excavation and will be re-established as required during progress of work using established bench-marks and reference points.

43.2 VERIFICATION

The Engineer may make checks as the work progress to verify lines and grades established by the Contractor and to determine the conformance of the work as it progresses with the requirements of the Drawings and Specifications. Such checking by the Engineer shall not relieve the Contractor of his responsibility to perform all work in accordance with the Drawings and Specifications and the lines and grades given therein.

Based upon the basic control, the Contractor shall provide his own primary control points, as needed for the Works, and shall preserve and maintain them until otherwise authorized.

The Contractor shall be responsible for maintaining all survey markers/monuments, and property corners. If any markers/monuments are destroyed by the Contractor, the Contractor shall arrange, at his own cost, to retrace and replace them to the entire satisfaction of the Engineer. If a monument cannot be replaced in its original position, the Contractor shall install a witness corner. The Contractor shall complete and file monument reference cards on all monuments as per instructions of the Engineer.

The Contractor shall provide experienced construction surveyors with adequate experience in the construction surveys similar in nature as required by this Contract.

Based upon established basic control monuments the Contractor shall establish all lines and grades necessary to control the Works, and shall be responsible for all measurements that may be required for execution of the Works to the tolerance prescribed below.

The Contractor shall perform such surveys and computations as are necessary to determine quantities of work performed or placed during each progress payment period, and shall also perform all surveys necessary for the Engineer to determine final quantities of work in place. The Engineer will determine final quantities based on original ground levels determined by the Contractor and agreed by the Engineer.

The Contractor shall notify the Engineer at least 24 hours before performing a quantity survey and, unless specifically waived, quantity surveys shall be performed in the presence of an authorized representative of the Engineer.

Degree of accuracy for the survey works shall satisfy the following specified tolerances:

(a) Structure points shall be set within 0.01 foot accuracy from point to point, except where tighter tolerances are required.

(b) Cross-section points shall be located within 0.10 foot, horizontally and 0.01 foot vertically.

(c) Permissible closing error for a levelling line meant for establishing Temporary Bench Mark (TBMs) shall not exceed 0.045 x $\sqrt{}$ M foot, where M is in miles. The permissible closing error shall be duly adjusted.

The Contractor shall provide all materials, equipment and labour required for surveying work, including, but not limited to, instruments, stakes, spikes, steel pins, templates, platforms, and tools, and except as required to be incorporated in the work or left in place, all such materials and equipment, shall remain the property of the Contractor. Surveying instruments shall be in perfect working condition and shall be

subject to rigid inspection for proper operation at least after every two weeks of use. Defective instruments shall be promptly replaced or repaired and adjusted to the satisfaction of the Engineer.

Survey data shall be recorded in accordance with recognized professional surveying standards. Original field notes, computations, and other surveying data shall be recorded in the Contractor furnished field books. Notes or data not in accordance with standard formats will be rejected. Illegible notes or data, or use of erasures on any page of a field book will be considered sufficient cause for rejection of part or the entire field book. Copied notes or data will not be permitted; therefore, rejection of part or all of a field book may necessitate re-surveying. Corrections by ruling or lining out errors will be satisfactory.

The cost of all materials, equipment, surveyors and labour required for surveys for the Works and quantity surveys required by this clause shall be deemed to be included in the rates and prices of the various items in the Bill of Quantities and no separate measurement and payment in their respect shall be made.

43.3 SURVEY INSTRUMENTS

The Contractor shall maintain at the Site the requisite surveying instruments in perfect working conditions to enable the Engineer's Representative to check levels and lines of the work at all times.

44. PAYMENT OF WORK

No payment shall be made for the works involved within the scope of this section of specification unless otherwise specifically stated in the Bills of Quantities or herein.

The cost thereof shall be deemed to have been included in the total price quoted by the Contractor.

45. ENVIRONMENTAL PROTECTION

The Contractor shall exercise care to protect the natural landscape and shall conduct his construction operations so as to prevent any unnecessary destruction, scarring or defacing of the natural surroundings in the vicinity of works. Except where clearing is required for the Permanent works, approved construction roads and the Temporary Works, and for excavation operations, all trees and native vegetation shall be preserved and shall be protected from damage which may be caused by the Contractor's construction operations and equipment. On completion of the works, all work areas shall be smoothed and graded in a manner to confirm to the natural appearance of the landscape. Where unnecessary destruction, scarring, damage or defacing may occur as a result of the Contractor's operations, it shall be repaired, replanted, or otherwise corrected as directed by the Engineer at no additional cost to the Employer.

SECTION – 0120

CONTRACTOR'S CAMP

1. SCOPE

2. PAYMENT OF WORK

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 0120

CONTRACTOR'S CAMP

1. SCOPE

The work to be done under this item consists of construction, erection, installation and maintenance of the Contractor's Project Site Offices or main camp and the Contractor's sub-camps or temporary camps, if any, and shall include all offices, shops, warehouses, and other operational buildings; all housing and related facilities including accommodations for the Contractor's personnel.

The location of the Contractor's camps, including all buildings, utilities and facilities thereof, and of the camps or establishments of all persons/parties in the vicinity operating or associated with the Contractor shall be subject to approval of the Engineer.

The work to be done under this item will terminate upon the actual Completion Date. However, if directed by the Engineer or the Employer, the Contractor shall continue such work to the extent required by the Contractor's personnel during the period of maintenance. No compensation shall be paid for the continued operation and maintenance of the Contractor's Camps during the period of maintenance.

Upon completion of the Works, or at such time within the period of maintenance as directed by the Engineer, the Contractor shall remove all buildings utilities and other facilities from the Site and restore all camp areas to a neat and clean condition.

The construction, operation and maintenance of all camps of the Contractor shall comply with all applicable provisions of current Pakistan Labour Camp Rules.

Adequately equipped and properly staffed portable first aid stations or dispensaries shall be provided by the Contractor at camps and other strategic locations to administer first aid treatment at any time required and free of charge to all persons on the Site, including employees of the Engineer and the Employer.

2. PAYMENT OF WORK

No payment shall be made for the works involved within the scope of this section of Specifications unless otherwise specifically stated in the Bills of Quantities or herein.

The cost thereof shall be deemed to have been included in the quoted unit rate of other items of the Bills of Quantities.

SECTION – 0130

STAKE-OUT SURVEY

1. SCOPE

2. MATERIAL & EQUIPMENT

3. CONSTRUCTION

4. MEASUREMENT AND PAYMENTS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 0130

STAKE-OUT SURVEY

1. SCOPE

Under this item the Contractor shall make the stakeout survey for construction purposes with competently qualified men, consistent with the current practices. The work shall proceed immediately upon the award of the contract and shall be expeditiously progressed to completion in a manner and at a rate satisfactory to the Engineer. The Contractor shall keep the Engineer fully informed as to the progress of the stakeout survey. The scope of this section of specifications is covered by detailed specifications as laid down herein.

2. MATERIAL AND EQUIPMENT

All instruments, equipment, stakes and other material necessary to perform all work shall be provided by the Contractor. These instruments and equipment shall be available to Engineer at all times for the purpose of checking the work of the Contract.

All stakes used shall be of a type approved by the Engineer, clearly and permanently marked so as to be legible at all times. It shall be the Contractor's responsibility to maintain these stakes in their proper position and location at all times. Any existing stakes or markers defining property lines and survey monuments which may be disturbed during construction shall be properly tied into fixed reference point before being disturbed and accurately reset in their proper position upon completion of the work.

3. CONSTRUCTION

The Contractor shall trim trees, bushes and other interfering objects, not consistent with the plan, from survey lines in advance of all survey work to permit accurate and unimpeded work by his stake-out survey crew and the Engineer's survey crew. The exact position of all work shall be established from control points, which are shown on the plans or modified by the Engineer. Any error, apparent discrepancy in or absence of data shown or required for accurately accomplishing the stakeout survey shall be referred to the Engineer for interpretation or furnishing when such is observed or required.

The Contractor shall be responsible for the accuracy of his work and shall maintain all reference points, stakes, etc. throughout the life of the contract. Damaged, destroyed or inaccessible reference points, bench marks or stakes shall be replaced by the Contractor. Existing or new control points that will be or are destroyed during construction shall be re-established and all reference ties recorded thereon shall be furnished to the Engineer. All stakeout survey work shall be referenced to the centerlines shown on the Plans. All computations necessary to establish the exact position of the work from control points shall be made and preserved by the Contractor. All computations, survey notes and other records necessary to accomplish the work shall be kept neatly and made available to the Engineer upon request and furnished to the Employer upon Contract completion.

The Engineer may check all or any portion of the stakeout survey work or notes made by the Contractor and any necessary correction to the work shall be immediately made. Such checking by the Engineer shall not relieve the Contractor of any of his responsibilities for the accuracy or completeness of his work.

Reference points, base lines, stakes and benchmarks for borrow pits shall be established by the Contractor.

All required right-of-way and easement limits shall be established, staked and referenced by the Contractor concurrent with the construction stakeout survey.

The Contractor shall place at least two offset stakes or references at each centre lines station and at such intermediate stations as the Engineer may direct. From computations and measurements made by the Contractor, these stakes shall be clearly marked with the correct centre line, station number, offset and cut or fill so as to permit the establishment of the true centre line location during construction. He shall locate and place all cut, fill, slope, line grade or other stakes and points as the Engineer may direct to be necessary for the proper progress of the work.

4. PAYMENT OF WORK

No payment shall be made for the Works involved within the scope of this section of Specifications unless otherwise specifically stated in the Bills of Quantities or herein.

The cost thereof shall be deemed to have been included in the quoted unit rate of other items of the Bills of Quantities.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION – 0200

DISMANTLING AND DEMOLITION WORKS

1. SCOPE

2. SUBMITTALS

3. DISMANTLING PROCEDURES

4. EXECUTION

5. DISPOSAL

6. PROPERTY OF MATERIAL

7. MEASUREMENT AND PAYMENTS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION-0200

DEMOLITION WORKS

1 SCOPE

The work covered by this section of the specifications consists of furnishing all plant, labour, equipment, appliances and performing all operations as required to dismantle/ demolish existing structures at the site of proposed project or as directed by the Engineer.

2 SUBMITTALS

2.1 Method Statement and Details

For all Demolition works the Contractor shall submit for the prior approval of the Engineer, the methodology and list of plant and equipment to be employed on the Works. No work shall be commenced until the methodology, plant and equipment to be used in the Works is approved by the Engineer.

3 DISMANTLING PROCEDURES

3.1 Demolitions shall be performed in an orderly manner and the Contractor shall take all necessary precautions and expedients to prevent damages to the adjacent structures.

3.2 Explosives shall not be used to remove or demolish the Plain and Reinforced Cement Concrete Structures unless otherwise directed by the Engineer.

4 EXECUTION

4.1 Description of Site

The Contractor shall take sufficient steps/ actions/ measures for the safety of the adjoining building and shall be responsible for any damage to the existing superstructures and substructures caused due to demolition.

Where approval has been given to the Contractor for carrying out demolition operations at night or in places where day light is excluded, the Contractor shall provide adequate lighting at all points where demolition and transportation is in progress.

4.2 Notice to Commence Work

The Contractor shall give reasonable notice that he intends to commence any demolition works and he shall submit to the Engineer full details of his proposals. The Engineer may require modifications to be made if he considers the Contractor's proposals to be unsatisfactory and the Contractor shall give effect to such modifications but shall not be relieved of his responsibility with respect to such work.

4.3 Demolitions near Existing Buildings

The Contractor shall be attentive particularly to his obligations under the General Conditions of Contract in respect of those works, which are in close proximity of existing buildings.

4.4 Shoring, Planking and Strutting

Shoring, where required during demolition, shall be installed to protect workmen and adjacent paving, structures and utilities. The term shoring shall also be deemed to cover whatever methods the Contractor elects to adopt, with prior approval of the

Engineer. Any damage to the property on account of Contractor's fault shall be solely on his account.

4.5 Utility Lines

Existing utility lines that are visible or the locations of which are made known to the Contractor prior to demolition and that are to be retained, as well as utility lines constructed during dismantling if damaged, shall be repaired by the Contractor at his own expense. Any existing utility lines which are not known to the Contractor in sufficient time to avoid damage, if inadvertently damaged during demolition, shall be repaired by the Contractor and adjustment in payment will be made as approved by the Engineer. The utility lines, which are to be removed, are encountered within the area of operations the Contractor shall notify the Engineer in ample time for the necessary measures to be taken to prevent interruption of the service.

4.6 Stockpiling of Demolished Materials

Demolished material suitable for reusable may be stockpiled as directed by the Engineer.

5 DISPOSAL

5.1 The demolished/rejected debris materials shall be broken to pieces not larger than 25 to 75mm

5.2 All materials resulting from Demolition shall be disposed off out of Municipal limits along the most direct route from the boundary of the project and/or as directed by the Engineer

5.3 All carts, trucks or other vehicles used by the Contractor for transportation of the Dismantled/Demolished material shall be suitably constructed or lined so as not to permit any leakage of materials while the vehicles are on the move. These would be so loaded and arranged as not to spill on the Site and public roads. Whenever any vehicle so used is found leaking and unsuitable it shall be immediately withdrawn from the Work.

5.4 The disposal of Dismantled/Demolished debris material shall include loading, unloading, transporting, spreading and leveling as directed by the Engineer.

6 PROPERTY OF MATERIAL

All materials designated as reusable prior to the start demolition including electrical & mechanical fixtures shall be the property of the Employer and the Contractor shall stack / store these in an approved manner at a place within the site area designated as approved by the Engineer.

7 MEASUREMENT AND PAYMENT

7.1 General

7.1.1 Measurement for payment purposes shall be made against the respective item(s) of works given in the Bill of Quantities which have been completed in-accordance with the Scope of Works specified in this Section.

7.1.2 The item rates quoted by the Contractor shall be deemed to include full compensation of works executed at any depth, floor and at any height except where otherwise specifically stated in the relevant item of the Bill of Quantities or Contract Documents.

7.1.3 Except otherwise specified herein or elsewhere in the Contract Documents, no measurement and payment will be made for the under mentioned specified works related to the relevant items of the Bills of Quantities. The cost thereof

shall be deemed to have been included in the quoted unit rate of the respective items of the Bills of Quantities.

7.1.3.1 Timber shoring, planking, strutting and providing slope for upholding the sides of demolished work.

7.1.3.2 Stacking of reusable materials.

7.1.3.3 Operations and the steps taken for the safety of the existing adjoining structures including danger direction/ diversion sign boards of appropriate size and temporary segregating the area with corrugated sheet steel plates or with brick masonry in mud.

7.1.3.4 Temporary diversion of existing utility lines.

7.1.3.5 Disposal of demolished debris materials out of Municipal limits including loading unloading and spreading.

7.1.3.6 Arrangement of water and power supply for the works, if required.

7.1.3.7 Tools, Plants and equipments used for the demolition.

7.1.3.8 Any damage caused to the structures and installation due to negligence of the Contractors during dismantling operations and their repair/replacement. to the satisfaction of the Engineer.

7.1.3.9 Cleaning and restoring the site to the satisfaction of the Engineer.

7.2 Measurement

Measurement of works against respective item(s) given in the Bill of Quantities, acceptably completed in-conformance with the specifications under this Section, shall be made to the neat lines shown on the drawings and on the basis of No. of Units given in the Bill of Quantities.

7.3 Payment

Payment of acceptably completed works against respective item(s) given in the Bill of Quantities, as measured above, shall be made on the basis of Unit Rate quoted in the Bill of Quantities and shall constitute full compensation for all incidentals / associated works specified in this Section relevant to the item(s).

PPRA EPADS

SECTION - 1100

EARTHWORK

1. SCOPE

2. SUBMITTALS

3. EXPLOSIVES

4. EXECUTION

5. MEASUREMENT AND PAYMENT

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

1. SCOPE OF WORK

The work under this section of the specifications consists of furnishing all plant, labor, equipment, appliances and materials and in performing all operations in connection with earthwork of all underground services and structural units, roads and temporary drainage, stock piling of suitable excavated material, disposal of unsuitable and surplus excavated material in accordance with this section of specifications, the applicable drawings and subject to terms and conditions of the Contract.

2. SUBMITTALS

The Contractor shall perform a joint survey with the Engineer's Representative, of the area where earthwork is required, plot the ground levels on the drawings and obtain approval from the Engineer before starting the earthwork.

3. EXPLOSIVES

Where explosives are used, the Contractor shall provide suitable buildings or warehouses in approved positions for the storage of explosives, which shall be stored in the manner and quantity approved by the Engineer/Engineer's Representative. Such storage places shall be accessible only to authorized personnel. They shall be properly marked, all doors or accesses thereto shall be constructed of materials as directed by the Engineer/Engineer's Representative, and provide with secure locks and all necessary means of preventing access by unauthorized persons.

The Contractor shall be responsible for the prevention of any unauthorized issue or improper use of any explosives. The handling of explosives shall be entrusted only to experienced and reasonable men, shall be to the satisfaction of the Engineer/Engineer's Representative, and in conformity with the statutory regulations.

All drilling and blasting shall be done in such a manner as to bring excavation as close as possible to the required cross-sections, and to disturb as little as possible the material to be left in place. Blasting by means of drill holes, tunnels, or any other method shall be performed at the entire risk and responsibility of the Contractor who shall have no claim to payment for extra work occasioned by breakage outside the approved cross-sections.

The greatest care shall be taken by the Contractor during all blasting operations, to ensure no injury be done to persons or damage to property or to the finished work. Shots shall be properly loaded and capped and only a moderate charge shall be used in each hole. A register of all explosives used showing locations and amounts shall be kept by the Contractor for checking by the Engineer/Engineer's Representative.

Where directed by the Engineer, the Contractor shall provide heavy mesh blasting mat for protection of persons, property and the work. If necessary, blasting shall be restricted to time prescribe by the Engineer/Engineer's representative.

The Engineer/Engineer's Representative may prohibit blasting and order the rock to be excavated by other means, if, in his opinion it would be dangerous to persons or adjacent structures, or is being carried out in a reckless manner.

4. EXECUTION

The Contractor shall be deemed to have made local and independent inquires as to, and shall take the whole risk of, the nature of the ground subsoil or material to be excavated or penetrated and the Contractor shall not be entitled to receive an extra or additional payment nor to be relieved from any of his obligations by reasons of the nature of such ground subsoil or material.

All excavations, cuts and fills shall be constructed to the lines, levels, slopes and gradients specified with any necessary allowance for consolidation, settlement and drainage so that at the end of the Defects Liability Period the ground shall be at the required lines, levels and gradients. During the course of the Contract and during the Defects Liability Period any damage or defects

in cuts and fills, in structures and other works or rolling of stones/boulders caused by blasting or otherwise, slips, falls of wash-ins or any other ground movement due to the Contractor's negligence shall be made good by the Contractor at his own cost.

4.1 SITE PREPARATION

4.1.1 The Contractor shall set out the work and shall be responsible for true and perfect setting out of the same and for correctness of the positions, levels, dimensions and alignments of all parts thereof. If at any time any error in this respect shall appear during the progress of the work, the Contractor shall at his own expense rectify such error, to the satisfaction of the Engineer/Engineer's Representative.

4.1.2 The Contractor shall construct and maintain accurate bench marks so that the Lines and Levels can be easily checked by the Engineer/Engineer's representative.

4.2 EXCAVATIONS

4.2.1 Excavation shall include the removal of all material of every name and nature.

It is expected that rock and other hard material will be encountered during excavation.

Excavation shall consist of the removal and satisfactory disposal of un-altered and un-weathered firm and rigid igneous, metamorphic and sedimentary rocks which requires blasting or the use of metal wedges and sledge hammers or the use of compressed air drilling and eolian alluvial and residual material. Eoilan and alluvial materials consist of gravel, shale, volcanic ash, loess, dunes, loams, sands and clays or any combination of these materials.

4.2.2 The major portion of excavations shall be carried out by mechanical excavators and excavated materials disposed off to stock on spoil as directed by the Engineer. The excavation may be done by normal means. Unless otherwise specified by the Engineer, leveling, trimming and finishing to the required levels and dimensions shall be done manually. The material suitable for fill and backfill if approved by the Engineer shall be stockpiled within the limits of whole of the Project Site at locations designated and approved by the Engineer.

Excavated material unsuitable for use as fill and backfill shall be disposed off by the Contractor at locations designated and approved by the Engineer within or outside the limits of the Campus premises.

4.2.3 The Contractor shall give reasonable notice that he intends to commence any excavation and shall submit to the Engineer full details of his proposals. The Engineer's approval shall not relieve the Contractor of his responsibility with respect to such work.

4.2.4 The Contractor shall preserve the completed excavation from damage due to slips and earth movements, ingress of water from any source whatsoever and deterioration by exposure to the sun and the effects of the weather.

All excavations shall be kept free of water and shall be maintained dry to the satisfaction of the Engineer. Prevent surface water and sub-surface water from flowing into the excavation and flooding the project site and surroundings.

Do not allow water to accumulate in excavations, remove water from excavations to prevent softening of foundation bottoms, under cutting footings and soil changes detrimental to the stability of sub-grades and foundations. Provide discharge lines necessary to convey the water away from the

excavations. Convey water, removed from excavation and rain water, to outside the limits in manner that no damages are caused to the surrounding services properties.

4.2.5 In blasting rock slopes, reasonably uniform faces shall be left, regardless of whether or not the excavation is carried beyond the specified slope. Any over breakage below the depth will not be paid for.

4.2.6 Excavation for pits, cable trenches, equipment-foundations and other structures shall be taken out to the levels and dimensions shown on Drawings or such other levels and dimensions as the Engineer may direct.

4.2.7 Excavation shall extend to adequate distance from walls and footings to allow for placing and removal of forms, installations of services and for inspection, except where the concrete for walls and footings is authorized to be deposited directly against excavated surfaces. Undercutting will not be permitted. The additional excavation for placing and removal of forms, installation of services, for inspection and generally for working area on slopes for stability shall not be measured for payment and shall be deemed to be included in the rates for excavation as measured net.

4.2.8 All excavations in foundations shall be taken to 6 inch above the final excavation elevations shown on the drawings and the last 6-inch shall be trimmed carefully to a smooth and level surface. Immediately after trimming to the final elevation, a layer of blinding concrete shall be placed to the thickness shown on the drawings. All excavations for foundations which have been trimmed and disturbed shall be compacted and covered by lean concrete by the end of the day.

4.2.9 No excavation shall be refilled nor any permanent work commenced until the foundation has been inspected by the Engineer and his permission to proceed is given.

4.2.10 If excavation for sub-structures are carried below the required level, as shown on the Drawings or as directed by the Engineer, the surplus depth shall be filled in with concrete of same grade as of blinding concrete at the sole cost of the Contractor.

4.2.11 The placing of blinding concrete, placing of reinforcement and casting of the permanent works in the excavation shall be carried out in the dry condition.

4.2.12 Shoring, where required during excavation, shall be installed to protect workmen and the bank, adjacent paving, structures and utilities. The term shoring shall also be deemed to cover whatever methods the Contractor elects to adopt, with prior approval of the Engineer, for upholding the sides of excavation and also for planking and strutting to excavation against the side of roadways and adjoining properties in existing hardcore of any other material. The Contractor will be held responsible for upholding the sides of all excavations and no claim for additional excavation, concrete or other material will be considered in this respect.

4.2.13 Existing utility lines that are shown on the drawings or the locations of which are made known to the Contractor prior to excavation and that are to be retained, as well as utility lines constructed during excavation and backfilling, and if damaged, shall be repaired by the Contractor at his own expense. Any existing utility lines which are not known to the Contractor in sufficient time to avoid damage, if inadvertently damaged during excavation, shall be repaired by the Contractor and adjustment in payment will be made as approved by the Engineer. When utility lines which are to be removed, are encountered within the area of operations the Contractor shall notify the Engineer in ample time for the necessary measures to be taken to prevent interruption of the service.

4.2.14 Where applicable the excavation work shall include the excavation above water table and excavation below water table. The Contractor shall provide all plant, equipment, pumps, sheeting, well points as required to keep the water table 3.0 feet below the deepest foundation as shown on the drawings till the completion of foundation works.

4.2.15 Before starting the excavation for pipelines, the Contractor shall ensure the correct alignment of the pipeline on the ground the depth and width of excavation of the trench, all in accordance with the Drawings and instructions of the Engineer. The Contractor shall make profile with cement concrete pillars.

Excavation shall be carried out true to lines, levels, grades and widths as shown on the drawings or as directed by the Engineer ensuring proper laying of the pipe line, the bedding fill, construction of chambers for appurtenances and any other structures. The trench bottom shall be graded to provide even and substantial bearing over the specified bedding and of the structure.

Without the written permission of the Engineer, not more than 600 feet of the trench shall be opened in advance of the completed pipeline.

4.2.16 The Engineer may require the Contractor to excavate below the elevations shown on the drawings or may order him to stop above the elevations shown depending upon the suitable foundation material encountered.

4.2.17 If for any reason, the levels, grades or profiles of the excavations are changed adversely by the Contractor, the Contractor shall at his own cost, be liable to bring the excavations to the required levels and profiles as shown on the drawings or as directed by the Engineer.

4.3 EXCAVATION TOLERANCES

All slopes, lines and grades shall be true, correct and accurate to those shown in the plans or otherwise directed and approved by the Engineer. The sub-grade in cuts shall be accurate to the authorized profile grade for the sub-grade to ± one inch (1”). Where discrepancies are found in the work the Contractor shall make the necessary corrections.

4.4 FILL AND BACKFILL

4.4.1 The backfilling shall include filling under the floors, around the foundation trenches, pipes, conduits, ducts and channels.

The backfilling shall include loading, unloading, transporting, placing, stacking, spreading of earth, watering, rolling, ramming and compacting, etc., complete as specified herein.

4.4.2 Backfill shall be either using granular backfill material or common backfill as directed and approved by the Engineer. Granular backfill materials shall meet the following requirements.

a) Grading Requirements

Mm	Inch	A	B
25	1”	100	100
19	3/4"	60 – 100	75 – 100
4.75	No. 4	50 – 85	55 – 100
2.0	No. 10	40 – 70	40 – 100
0.425	No. 40	25 – 45	20 – 50
0.075	No. 200	0 – 15	5 – 15

b) Material satisfying the requirements of coarse sand falling under soil classification A–3 (AASHTO). In case coarse sand is utilized for granular fill it shall be ensured that the same is confined properly with approved material.

c) The material shall have a plasticity index of not more than six (6) as determined by AASHTO T – 89 and T – 90.

4.4.3 The excavated material if found suitable shall be stockpiled within the free haulage limit of the Project Boundary. This material shall be used for filling/back-filling if approved by the Engineer and shall be transported by the Contractor anywhere required for the purpose of filling/back-filling work in this Contract.

4.4.4 The Contractor shall provide the approved quality of backfill and fill material required to complete the fill and back- filling work from the places as designated by the Engineer.

Deep filling shall be predominantly granular material and free from slurry mud, organic or other unsuitable matter and capable of compaction by ordinary means.

4.4.5 Material for backfilling shall be as approved by the Engineer and shall be placed in layers not exceeding six (06) inches measured as compacted material with sufficient water and compacted to produce in-situ density not less than 95% of the maximum dry density at optimum moisture content.

Depending on the depth of fill the Engineer may instruct increased thickness of successive layers to be placed.

The filling shall be compacted by mechanical means as approved by the Engineer.

4.4.6 Filling around pipes and cables shall be carefully placed with fine material to cover the pipe or cable completely before the normal fill is placed.

4.4.7 Backfilling of trenches/foundations shall be carried out only after the pipe line/structural works within the excavations have been inspected, tested and approved by the Engineer.

4.4.8 Fill shall not be placed against foundation walls prior to approval by the Engineer. Fill shall be brought up evenly on each side of the walls as far as practicable. Heavy equipment for spreading and compacting the fill shall not be operated closer to the wall than a distance equal to the height of the fill above the top of footing.

4.4.9 Before the start of fill and backfill, the Contractor shall satisfy himself as to the levels and slopes of the fills and backfill shown on the Drawings, the requirements of compaction, the possibility of settlement & all other particulars whatsoever in connection with the filling works.

4.4.10 All filled areas shall be left neat, smooth and well compacted, the top surface consisting of the normal site surface soil, unless otherwise directed.

4.5 TOLERANCES

The stabilization of compacted backfill/fill surface shall be smooth and even and shall not vary more than 3/8 inch in 10 feet from true profile and shall not be more than 1/2 inch from true elevation.

4.6 DISPOSAL OF SURPLUS EXCAVATED MATERIAL

4.6.1 The rejected unsuitable material and surplus excavated material shall be disposed off within or outside the limits of Campus premises and as directed by the Engineer. No compensation of any lead/lift is admissible and rates quoted shall be deemed to include the same. The surplus excavated material shall be so placed that it will present a neat appearance and not offer any danger to abutting properties.

4.6.2 The material shall be declared unsuitable if the soaked CBR (96 hours) is less than five (5) percent or if falls under A-6 or A-7 of AASHTO soil classification.

4.6.3 The disposal of surplus/unsuitable excavated material shall include loading, unloading, transporting, stacking, spreading and leveling as directed by the Engineer.

5. MEASUREMENT AND PAYMENT

5.1 General

Except otherwise specified herein or else where in the Contract Documents, no measurement and payment will be made for the under mentioned works related to the relevant BOQ items. The cost thereof shall be deemed to have been included in the quoted unit rate of the respective items of the Bill of Quantities.

5.1.1 Timber shoring, planking, strutting and providing slope for upholding the sides of excavations.

5.1.2 Any fill with approved material necessitated by over excavation due to fault or convenience of the Contractor except under structural members.

5.1.3 Stockpiling the excavated material at approved location within free haulage limit of Campus premises and transporting back suitable material to places requiring fill or backfill.

5.1.4 Specified foundation bed preparation.

5.1.5 Excavation involved in providing adequate working space around sides of foundation and service line trenches.

5.1.6 Providing approved quality fill/backfill material obtained from excavated material as designated by the Engineer.

5.1.7 Blasting, excavation in rock, control of and removal of water during or after earthwork operations.

5.1.8 Rolling, leveling, watering & compacting the fill and backfill to required density.

5.1.9 All laboratory and field tests stipulated in these specifications.

5.1.10 Disposal of rejected surplus and unsuitable excavated material anywhere within or outside the limits of Campus premises, as directed by the Engineer. No compensation of any lead/lift is admissible and rates quoted shall be deemed to include the same.

5.1.11 De-watering to keep the foundations dry during construction.

5.2 Excavation

5.2.1 Measurement

Quantities of excavation shall be calculated / measured from the pre-work levels of leveled and graded ground taken jointly by the Contractor and the Engineer before commencement of the work.

The quantities set out for excavation and its subsequent disposal shall be deemed to be the bulk quantity before excavating and no allowance shall be made for any subsequent variations in bulk or for any extra excavation.

Unless otherwise shown on the Drawings quantities of excavation shall be measured of acceptably completed works on the basis of vertical excavations required in accordance with lines of concrete.

Quantities of excavation for laying service line trenches shall be measured for payment on the basis of vertical excavation faces for the specified width for the trench as shown on the drawings.

Measurement for acceptably completed excavation works shall be made on the basis of number of cubic feet of material excavated for foundation and service trenches as shown on the Drawings or as directed by the Engineer.

5.2.2 Payment

Payment will be made for acceptably measured quantity of excavation on the basis of unit rate per cubic feet quoted in the Bills of Quantities and shall constitute full compensation for all the works related to the item, including but not limiting to back filling.

4.3 Backfill/Fills

4.3.1 Measurement

Measurement for acceptably completed backfill/fill works will be made on the basis of number of cubic feet of compacted backfill/fill in position in accordance with the lines, levels and grade as shown on Drawings or as directed by the Engineer.

4.3.2 Payment

Payment will be made for acceptably measured quantity of backfill/fill on the basis of unit rate per cubic feet quoted in the Bills of Quantities and shall constitute full compensation for all the works related to the item.

SECTION - 1600

TERMITE CONTROL TREATMENT

1. SCOPE
2. MATERIAL
3. QUALITY ASSURANCE
4. EXTENT OF APPLICATION
5. STANDARDS
6. SAMPLES AND TESTS
7. GUARANTEE
8. MEASUREMENT & PAYMENT

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION – 1600

TERMITE CONTROL TREATMENT

1.0 SCOPE

The scope of work for anti termite treatment includes injection of insecticide in sides and bottom of foundation trenches, spraying on stockpiled backfill material and injections of the insecticide in floor sub-grade of the building. The scope also covers treatment of all wood works with insecticides before installation in position.

2.0 MATERIAL

2.1 An emulsible concentrate insecticide shall be used for dilution with water, specially formulated to prevent infestation by termites. Fuel oil will not be permitted as a diluent. Provide a working solution as per manufacturer's recommendation as in approved manufacturer list.

2.2 All mixing shall be done at site and mixing proportion of insecticide with water shall be in accordance with the approved manufacturer's recommendations and shall be verified by the Engineer.

2.3 Pure turpentine shall be used for dilution of insecticide, in approved proportion for application to woodwork.

3.0 QUALITY ASSURANCE

3.1 In addition to the requirements of these specifications, comply with manufacturer's instructions and recommendations for the work, including preparation of substrata and application.

3.2 A professional operator shall be engaged who shall have license in accordance with regulations of governing authorities for application of soil treatment solution.

4.0 EXTENT OF APPLICATION

4.1 Insecticide solution shall be applied with approved pressure spraying equipment maintaining a pressure of 150 psi to all applications to, on or in earth.

4.2 Soil treatment shall begin after all work of preparation of earth prior to installation of concrete has been done. After application, no additional earth moving or work upon sub grade should be done. No covering of earth or concrete should be applied over soil treatment until at least 24 hours after treatment has been made.

4.3 Insecticide solution should not be applied during wet weather, or when the earth surface is excessively wet. Application should be made to all areas beneath concrete slabs-on-grade, including sidewalks and paving abutting buildings for distance of at least 2 metres (6.5 feet) beyond building line. Solution shall be applied in amounts of not less than 5 lit./ sq. m. or 5 lit./10.76 sq.ft. of area. If applied over gravel or sand fill, application shall not be less than 7 lit./ sq.m or 7 lit./10.76 Sq.ft. of area. Insecticide shall penetrate to a depth of 25 mm (1-inch) minimum in porous earth at bottom and 50 mm to 75 mm (2 inch to 3 inch) at sides of excavations.

4.4 Sides of foundation excavations, grade beam, and similar areas shall be treated with solution at a rate of 0.5 lit per square feet (5 lit per square metre) upon inner sides of such excavations, and at all locations where concrete slabs for platforms and similar work abut the building. Similar treatment shall be made at all locations where expansion joints, control joints, column bases and similar work occur at or below grade slabs.

4.5 In the areas of application signs shall be fixed to show that soil treatment has been applied. Such signs shall be removed when areas are covered by other construction.

4.6 Care shall be exercised to insure that no marks or damage occurs to the finished structure as a result of the work under this section.

4.7 All woodwork for the entire project is to be insecticide treated (before application of solignum). Insecticide shall be sprayed on all surfaces of all the wooden work viz., door frames, blocking, furring, planks, boards etc. before installation. Spraying is to be done at the site, after delivery and before installation. No spraying shall be necessary after field sawing, jointing or installation of such material.

5.0 STANDARDS

All methods of termite protection used herein shall be in accordance with the standard practices of National Pest Control Association, U.S.A and the British Wood Preserving Association.

6.0 SAMPLES AND TESTS

The Contractor shall supply samples of all the materials to be used for insecticide control for approval of the Engineer and testing in accordance with the specified standards. Rejected materials shall be removed from the site immediately.

7.0 GUARANTEE

The Contractor is to guarantee that the building shall be free from termites (white ants), wood bores and other pests, which cause damage to wood or other organic material for 10 years from the date of acceptance of the building.

In the event of any damage caused within the guaranteed period, the Contractor shall replace at his own cost such damaged material, finishes affected and suitably preserve and treat the entire premises with the best method known to the trade to prevent the spreading of termites.

8.0 MEASUREMENT & PAYMENT

8.1 General

Except otherwise specified herein or elsewhere in the Contract Documents, no measurement and payment will be made for the under mentioned specified works related to the relevant items of the Bills of Quantities. The cost there of shall be deemed to have been included in the quoted unit rate of the respective items of the Bills of Quantities.

8.1.1 Termite control treatment on wood works.

8.1.2 Turpentine & Water required for mixing insecticide solution.

8.1.3 Transportation of material and storage at site.

8.1.4 Anti-termite treatment on stock piled backfill material.

8.1.5 Termite control treatment to vertical surfaces.

8.2 Termite Control Treatment

8.2.1 Measurement

Measurement of acceptably completed works of termite control treatment will be made on the basis of number of square meter / square foot of plinth area treated of ground floor/lower floor by measuring the two dimensions (length & breadth) of treated area in plan. No separate measurement will be made for the vertical or horizontal surfaces of the foundations.

8.2.2 Payment

8.2.2.1 Payment will be made for acceptable measured quantity of termite control treatment on the basis of unit rate per square meter / square foot of plinth area treated for of ground floor/lower floor quoted in the relevant items of Bills of Quantities & shall constitute full compensation for all the works related to the item.

8.2.2.2 For "Termite Proofing", the rate is for the unit plinth area (measured along the outside of the external walls at DPC or peripheral plinth beam level irrespective of the number of storeys in the building) and covers the followings operations:

i. Treatment of bed and sides of excavated foundation trenches.

ii. Treatment of backfill.

iii. Treatment of filled up earth.

iv. Treatment of timber to be used.

v. Treatment of surrounding areas within 3 meters (10 feet) of the building.

vi. Any other operation which the specialized firm may deem necessary in context to their guaranteed obligations.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 2100

FORMWORK

1. SCOPE

2. GENERAL

3. MATERIALS

4. DELIVERY AND STORAGE

5. WORKMANSHIP

6. MEASUREMENT & PAYMENT

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 2100

FORMWORK

1.0 SCOPE

The work under this section of the Specifications consists of furnishing all plant, labour, equipment, appliances and materials and in performing all operations in connection with the supply and installation of formwork for the purpose of containing concrete during placement and consolidation in the required shape and form.

2.0 GENERAL

It shall be the responsibility of the Contractor to perform the work by engaging well trained and experienced staff.

3.0 MATERIALS

The Contractor shall use the following materials for different purposes as stated below:

3.1 Timber

Form framing, sheathing and shoring.

3.2 Plywood

Form sheathing and panels.

3.3 Steel

- Heavy forms and false work
- Column and joint forms
- Permanent forms
- Welding of permanent forms

3.4 Form Ties Anchors and Hangers

For securing formwork against placing loads and pressures.

3.5 Coatings

Facilitate form removal.

3.6 Steel Joints

For formwork support.

3.7 Steel frame shoring

For formwork support.

4.0 DELIVERY AND STORAGE

4.1 Delivery

The delivery of formwork components shall be made in a manner so as not to cause damage.

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4.2 **Storage**

Form work should be stored, after cleaning and preparing for re-use, if used before in such a manner that access to all different component is available.

Form work component which can be affected by weathering shall be stored in appropriate building or under covers and shade.

5.0 **WORKMANSHIP**

5.1 Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete and shall have sufficient rigidity to maintain specified tolerances.

Where required details and locations of special forms to be used are set out on the drawings. The Engineer shall reject any formwork in any part of the work which has been constructed with a non- approved formwork. Approval of form work by the Engineer shall be one of these conditions to be fulfilled before concreting. The Engineer shall reject any concreting which may not conform to the approved model.

5.2 Earth cuts shall not be used as forms for vertical surfaces of reinforced concrete work unless required as such or permitted by the Engineer.

5.3 Formwork shall be of timber, steel, plywood, proprietary building boards and such special materials, as may be approved by the Engineer, which give the required finish and shape to the surface of concrete. Wooden formwork shall be free from loose knots and shall be well seasoned.

5.4 The formwork shall conform to the shape, lines and dimensions as shown on the plans, and be so constructed as to remain sufficiently rigid during the placing and compacting of the concrete, and shall be sufficiently tight to prevent loss of liquid from the concrete.

The design and engineering of the formwork, as well as its construction, shall be the responsibility of the Contractor. Where necessary, to maintain the specified tolerances, the formwork shall be cambered to compensate for anticipated deflections in the formwork due to the weight and pressure of the fresh concrete and due to construction loads.

The Contractor shall establish and maintain in an undisturbed condition and until final completion and acceptance of the project, sufficient control points and bench marks to be used as references for checking upon tolerances.

5.5 Requirements for `facing materials' are given in the Section relevant to `Finishing of Formed Surfaces.'

5.6 Where natural plywood-form-finish, grout-cleaned-finish, smooth-rubbed-finish, scrubbed-finish, or sand-floated-finish is required, forms shall be smooth (faced with plywood, liner sheets, or prefabricated panels) and true to line, in order that the surfaces produced will require little dressing to arrive at true surfaces. Where any as-cast finish is required, no dressing shall be permitted in the finishing operation.

5.7 Where as-cast surfaces, including natural plywood- form-finish are specified, the panels of material against which concrete is cast shall be orderly in arrangement, with joints between panels planned in approved relation to openings, building corners, and other architectural features.

5.8 Where panels for as-cast surfaces are separated by recessed or otherwise emphasized joints, the structural design of the forms shall provide for locating form ties, where possible, within the joints so that patches of tie holes will not fall within the panel areas.

5.9 Forms shall not be re-used if there is any evidence of surface wear and tear or defect which would impair the quality of the surface finish. Forms shall be thoroughly cleaned and properly coated before re-use.

5.10 Forms shall be sufficiently tight to prevent loss of mortar from the concrete. Unless otherwise specified in the Contract documents chamfer strips shall be placed in the corners of forms to produce beveled edges on permanently exposed surfaces. Interior corners on such surfaces and the edges of formed joints will not require beveling unless required by the Contract documents.

5.11 Positive means such as wedges or jacks for accurate adjustment and for proper removal of shores and struts shall be provided and all settlement shall be monitored during concrete placing operation. Forms shall be securely braced against lateral deflections.

5.12 Where concreting of thin members is required to be carried out within formwork of considerable depth, temporary openings in the sides of the formwork shall be provided where necessary to facilitate the placing and consolidation of concrete. Small temporary openings shall also be provided at the bottom of the formwork for columns, walls and deep beams to permit the cleaning out of debris and observation immediately before concrete is deposited.

5.13 Form ties shall be constructed so that the ends or end fasteners can be removed without causing appreciable spalling at the faces of the concrete. After the ends or end fasteners of form ties have been removed, the embedded portion of the ties shall terminate not less than twice the diameter or twice the minimum dimension of the tie from the formed faces of concrete to be permanently exposed to view and in no case shall this distance be less than 19mm (3/4 in.) when the formed face of the concrete is not to be permanently exposed to view from ties may be cut off flush with the formed surfaces.

Through bolts may be permitted provided that they are greased to allow for easy withdrawal and the holes subsequently made good. Through bolts are not to be used on water-retaining structures.

5.14 At construction joints contact surface of the form sheathing for flush surfaces exposed to view shall overlap the hardened concrete in the previous placement by no less than 25mm (1 in.). The forms shall be held against the hardened concrete to prevent offsets or loss of mortar at the construction joint so as to maintain a true surface.

5.15 Wood forms for wall opening shall be constructed to facilitate loosening, if necessary, to counteract swelling of the forms.

5.16 Wedges used for final adjustment of the forms prior to concrete placement shall be fastened in position after the final check.

5.17 Formwork shall be so anchored to shores or to other supporting surfaces or members that upward or lateral movement of any part of the formwork system during concrete placement will not occur.

5.18 Runways or planks for moving labour and equipment shall be provided with struts or legs and shall be supported directly on the formwork or upon the structural member without resting on the reinforcing steel.

5.19 All surfaces of forms and embedded materials shall be cleaned of any accumulated mortar or grout from previous concreting and of all other foreign material before placing fresh concrete.

5.20 Forms shall be sufficiently tight to prevent leakage of grout or cement paste. Board forms having joints opened by shrinkage of the wood shall be removed and replaced. Plywood and other wood surfaces not subject to shrinkage shall be sealed against

absorption of moisture from the concrete by either (1) a field applied, approved form oil or sealer, or (2) a factory applied non-absorptive liner. When forms are coated to prevent bond with concrete, it shall be done prior to placing of the reinforcing steel. Excess coating material shall not be allowed to stand in puddles in the forms nor allowed to come in contact with the concrete against which fresh concrete will be placed. Care shall be taken that such approved composition is kept out of contact with the reinforcement. Where as-cast finishes are required, materials, which will impart a stain to the concrete, shall not be applied to the form surfaces. Where the finished surface is required to be painted, the material applied to form surfaces shall be compatible with the type of paint to be used.

5.21 For reinforced concrete, in no circumstances shall forms be struck until the concrete attains a strength of at least twice the stress to which the concrete may be exposed at the time of striking.

The strength referred to shall be that of concrete using the same cement and aggregates, with the same proportions, and cured under conditions of temperature and moisture similar to those obtaining in the work. Where possible, the formwork should be left for longer time as it would assist the curing.

In normal circumstances (generally where temperature are above 20^{O} C and where ordinary cement is used) forms may be struck after expiry of the following periods:

- Walls, columns and vertical 48 hours or as may sides of beams decided by the Engineer.

- Side of slab (shores of 6 days props left under)

- Beams soffits (shores or 12 days props left under)

- Removal of shores or props to slabs:

  1. Spanning upto 4 metre (13 ft.) 10 days.
  2. Spanning over 4 metre (13 ft.) 16 days.

- Removal of shores or props to beams:

  1. Spanning upto 6 metre (20 ft.) 18 days.
  2. Spanning over 6 metre (20 ft.) 25 days.

For rapid hardening cement 3/7 of the above period will be sufficient in all cases except vertical sides of slabs, beams and columns which should be retained for a minimum of 24 hours.

The number of shores or props, their sizes and disposition shall be such as to be able to safely carry the full dead load of the slab and beams, as the case may be.

Proper allowance shall be made for the decrease in rate of hardening of concrete in cold weather and the above minimum duration must be increased when the mean daily temperature is below 20^{O} C.

5.22 When repair of surface defects or finishing is required at an early age, forms shall be removed as soon as the concrete has hardened sufficiently to resist damage from removal operations.

5.23 Top forms on sloping surfaces of concrete shall be removed as soon as the concrete has attained sufficient stiffness to prevent sagging. Any needed repairs or treatment required on such slopping surfaces shall be performed at once and be followed by the specified curing.

5.24 Wood forms for wall openings shall be loosened as soon as this can be accomplished without damage to the concrete.

5.25 All formwork shall be removed without such shock or vibration as would damage the reinforced concrete. Before the top plank and struts are removed, the concrete surface shall be exposed where necessary in order to ascertain that the concrete has sufficiently hardened. Proper precautions shall be taken to allow for the decrease in the rate of hardening that occurs with all cement in the cold weather.

5.26 When reshoring or repropping is permitted or required, the operations shall be planned in advance and shall be subject to approval. While reshoring is underway no live loads shall be permitted on the new construction.

In no case during reshoring shall concrete in beams, slab, columns or any other structural member be subjected to combined dead and construction loads in excess of the load permitted by the Engineer for the developed concrete strength at the time of reshoring.

Reshores shall be placed as soon as practicable after stripping operations are complete but in no case later than the end of working day on which stripping occurs.

Reshores shall be tightened to carry their required loads without overstressing the construction. Reshores shall remain in place at least until tests representative of the concrete being supported have reached the strength specified in sub-clause 5.23 hereof.

5.27 Floors supporting props or shores under newly placed concrete shall have their original supporting props or shores left in place or shall be reshored. The reshoring system shall have a capacity sufficient to resist the anticipated loads and in all cases shall have a capacity equal to at least one half the capacity of the shoring system above. The reshores shall be located directly under a shore position above unless other locations are permitted.

The reshoring or re-propping shall extend over a sufficient number of storeys to distribute the weight of newly placed concrete, forms, and construction live loads in such a manner that the design superimposed loads of the floors supporting shores or props are not exceeded.

5.28 It is generally desirable to give forms for reinforced concrete an upward camber to ensure that the beams or slabs (specially cantilever slabs) do not have a sag when they have taken up their deflection, but this should not be done unless permitted by the Engineer.

5.29 No loads, other than man and light plant required in connection with the actual work in hand, shall be allowed on suspended floors until 28 days after concreting where ordinary Portland Cement is used and 14 days when rapid hardening Portland Cement is used.

5.30 Prior to placing concrete, all forms shall be inspected and all debris and extraneous matter removed. The form oil or release agent shall not react with concrete to affect the strength nor shall it give any colour. It shall be applied in such a manner as not to contaminate the reinforcement and other fixtures to be embedded in concrete.

5.31 Formwork for concrete pavement shall be made of steel of an approved section, with a base width of at least 200 millimeters (8 in.) and the depth shall be equal to the thickness of the pavement at the edge as shown on the plans. The forms shall be staked with steel stakes, and stakes shall be of a length approved by the Engineer. Each section of forms shall have a stake pocket at each end and at intervals of not more than 1.5 meters (5 ft.) between ends. The stake pockets shall have approved devices for locking the form to the steel stakes. Each section of forms shall be straight and free from bends and warps at all times. No section shall show a variation greater than 3millimeter in 3 meters (1/8 inch in

10 ft.) from a true plane surface on the top of the form, and the inside face shall not vary more than 6 millimeters (1/4 in.) from a plane surface.

Before placing forms, the underlying base shall be to the required grade, and shall be firm and compact. The forms shall have full bearing upon the foundation throughout their length and shall be placed with exactness to the required grade and alignment of the edge of the finished pavement. They shall be so supported during the entire operation of placing, tamping and finishing the pavement that they will not deviate vertically at any time more than 3 millimeters (1/8 in.) from the proper elevation.

Forms shall not be removed for at least twelve (12) hours after the concrete has been placed. Forms shall be carefully removed in a manner to avoid damage to the pavement. Under no circumstances will the use of pry bars between the forms and the pavement be permitted. Pavement, which in the opinion of the Engineer, is damaged due to the careless removal of forms shall be repaired by the Contractor, as directed by the Engineer, at the Contractor's own expense. Forms shall be thoroughly cleaned and oiled each time they are used.

When pavement is placed adjoining existing concrete pavement upon which the finishing machine will travel, any irregularities in the old pavement shall be ground down to a true, uniform surface, of sufficient width to accommodate the wheels of the finishing equipment, if necessary to obtain proper smoothness of the pavement.

6.0 MEASUREMENT AND PAYMENT

Except otherwise specified in the Bill of Quantities no payment will be made for the works involved within the scope of this section of the specifications.

The cost thereof shall be deemed to have been included in the quoted unit rate of relevant concrete items of the Bills of Quantities.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 2200

REINFORCEMENT

1. SCOPE

2. APPLICABLE STANDARDS

3. SUBMITTALS

4. MATERIAL& SIZE OF BARS

5. DELIVERY & STORAGE

6. FABRICATING, BENDING AND PLACING

7. MEASUREMENT & PAYMENT

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 2200

REINFORCEMENT

1. SCOPE

The work under this section of specifications consists of furnishing, cutting, fabricating, bending and placing steel reinforcement and Welded wire fabric in any floor and at any height in concrete structures or elsewhere as shown on the drawings or as directed by the Engineer.

2. APPLICABLE STANDARDS

Latest editions of the following British and ASTM Standards are relevant to these specifications wherever applicable.

British Standards

BS 785	Hot rolled bars and hard drawn wire for the reinforcement of concrete.
BS 4449	Hot rolled steel bars for reinforcement of concrete
BS 4461	Cold worked steel bars for reinforcement of concrete.
BS 4466	Bending dimensions and scheduling of bars for the reinforcement of concrete.
BS 4483	Welded steel wire fabrics.

ASTM Standard

A 305	Minimum requirement for the deformations of deformed steel bars for concrete reinforcement.
A 615	Deformed billet steel bars for concrete reinforcement.
A 185	Welded steel wire fabric for concrete reinforcement.

In addition to the above, the latest editions of other Pakistan Standards, British standards, American Concrete Institute Standards, American Society for Testing and Materials Standards and other standards as may be specified by the Engineer for Special Material and construction are also relevant.

3. SUBMITTALS

3.1 Reinforcement shall be obtained only from manufacturers approved by the Engineer. Each consignment of reinforcement steel shall be accompanied by the manufacturer's certificate or shall refer to a previous certificate, if the consignment is from the same batch, showing that the reinforcement steel complies with the specified requirement. If such certificate is not made available or if the Engineer considers that the manufacturer's tests are inadequate, samples shall be taken for acceptance test from different consignments as the Engineer may direct and shall be tested at the contractor's cost. Should the result of such tests show that the sample does not meet with the specifications the whole consignment shall be rejected and removed from the site at the Contractor's cost.

3.2 BAR BENDING SCHEDULES

The Contractor shall prepare bar bending schedules of all the reinforcing steel bars and these bar bending schedules shall be submitted to the Engineer for his approval.

All detailing shall be done as per AC, standards AC1-315 & 318. The Contractor shall obtain approval of the bar bending schedules before starting actual bar bending works.

4. MATERIAL AND SIZE OF BARS

4.1 Reinforcement for concrete shall conform to the respective British, ASTM, or other Standards as specified in the Drawings and in the Contract Documents or as may be specified by the Engineer.

4.2 Unless otherwise specified, all plain reinforcing bars shall comply with the requirements of ASTM A615 for plain mild steel bars and shall have a minimum yield strength of 40 ksi.

4.3 Unless otherwise specified, all deformed reinforcing bars shall comply with the requirements of ASTM A615 for deformed hot rolled new stock billet steel bars and shall have a minimum yield strength of 60 ksi and a maximum yield strength of 78 ksi; also ratio of ultimate strength to yield strength shall not be less than 1.25 as per requirements of ACI 318-02.

4.4 Reinforcement shall be free from all loose or flaky rust and mill scale, or coating, including ice, and any other substance that would reduce or destroy the bond. Reduced section steel reinforcement shall not be used.

5. DELIVERY AND STORAGE

5.1 DELIVERY

Steel reinforcement bars shall be kept in bundles firmly secured and tagged. Each bar or bundle of bars shall be identified by marks stamped on hot or cold or painted on or by any other means. The identifying marks shall contain the following information:

- Name of the producer or his trade.
- Standard to which the bars have been manufactured.
- The class type and strength.
- The diameter.
- The number of the test certificate.

5.2 STORAGE

The method of storage shall be approved by the Engineer. Reinforcing bars shall be stored in racks or platforms above the surface of ground and shall be protected free from scaling, rusting, oiling, coatings, damage, contamination and structural defects prior to placement in works. Bars of different diameters and grades of steel reinforcement shall be kept separately.

6. FABRICATING, BENDING & PLACING

6.1 Bars used for concrete reinforcement shall be fabricated in accordance with the dimensions shown in the bar-bending schedule approved by the Engineer.

6.2 The cutting tolerance for all bars shall be ± 1 inch.

6.3 Where an overall or an internal dimension of a bent bar is specified in the schedule, the bending tolerance, unless otherwise stated, shall be as in Table 1.

Table 1: Bending Tolerances

Dimensions of bent bars		**Tolerance**	
Over Feet	Upto & including feet	plus inch	minus inch
--	3	1/5	1/5
3	6	1/5	1/5
6		1/5	1

6.4 Reinforcement shall not be bent or straightened in a manner that will injure the material.

No bars shall be bent twice in the same place, nor shall they be straightened after bending.

Unless permitted by the Engineer, reinforcement shall not be bent after being partially embedded in hardened concrete.

Bars which depend for their strength on cold working shall not be heated for any reason.

6.5 Welding shall be permitted for bars only under suitable conditions and with suitable safeguards in accordance with BS 693, BS 1856, or AWS D12.1, provided the type of reinforcing bar has the required welding properties. Tack welding may be used to fix in position bars that cross each other, only with prior approval of the Engineer. Welding shall be done as in lectum structural steel & metal works.

6.6 No splice of reinforcement shall be made except as shown on the working drawings.

6.7 Reinforcement is to be accurately placed as shown in the drawings, and secured against displacement by using 18-20 gauge black annealed wire ties or suitable slips at intersections and supported from the formwork by using concrete, metal or plastic chairs and spacers or hangers of an approved pattern. Where concrete blocks are used for ensuring the cover, they shall be made of mortar not leaner than 1 part of cement to 2 parts of sand.

Where the concrete surface will be exposed to the weather in the finished structure, the portions of all accessories in contact with the formwork shall be galvanized or shall be made of plastic.

6.8 Concrete clear cover for reinforcing steel shall be as follows:

	Structural Members	**Minimum Cover (inches)**
a)	Concrete cast against and Permanently exposed to earth	3
b)	Concrete exposed to earth or weather:	
	For reinforcing bars # 6 or larger	2
	For reinforcing bars less than # 6	1-1/2
c)	Concrete not exposed to weather or in contact with ground:	
	Slabs, Walls	3/4
	Beams, Columns: (Primary Reinforcement)	1-1/2

6.9 Bars shall be placed to the following tolerances:

1.	Concrete cover to formed surfaces	$\pm$ 1/4 inch
2.	Minimum spacing between bars	- 1/4 inch

3. Top bars in slabs and beams

a.	Members 8 inch deep or less	± 1/4 inch
b.	Members more than 8 inch but not over 2 feet deep	± 1/2 inch
c.	Members more than 2 feet deep	± 1 inch

4. Crosswise of members: spaced evenly within 2 inch

5. Lengthwise of members ± 2 inch

6.10 Bars may be moved as necessary to avoid interference with other reinforcing steel, conduits, or embedded items. If bars are moved more than one bar diameter or enough to exceed the above tolerances, the resulting arrangement of bars shall be subject to approval of Engineer.

6.11 Vertical bars in columns shall be offset at least one bar diameter at lapped splices. To ensure proper placement, templates shall be furnished for all column dowels.

6.12 Exposed reinforcement intended for bonding with future extensions is to be effectively protected from corrosion. Protection is also to be provided to reinforcement partly built into concrete where the exposed part is to be built into later concrete.

6.13 All reinforcement, at the time concrete is placed, shall be free of loose mile scale, loose rust mud, oil grease, or other materials that may adversely affect or reduce the bond.

6.14 No concreting is to be carried out until the reinforcement has been checked and approved by the Engineer.

7. MEASUREMENT & PAYMENT

7.1 General

Except otherwise specified herein or elsewhere in the Contract Documents, no measurement and payment will be made for the under mentioned specified works related to the relevant items of the Bills of Quantities. The cost thereof shall be deemed to have been included in the quoted unit rate of the respective items of the Bills of Quantities.

The rates quoted by the Contractor in the Bill of Quantities shall include work to be executed under these specification in any floor and at any height except where otherwise specifically stated in the relevant item of Bill of Quantities and the Contractor shall not be entitled to any claim or claim any compensation on this account.

Providing and installing cover blocks, chairs, supports, hooks, spacers, binding wires, and laps not shown on drawings including wastage and rolling margin. Laps shown on drawings shall be payable.

7.2 Mild Steel and Deformed Steel

7.2.1 Measurement :

Measurement for acceptably completed works of reinforcement according to bar bending schedules approved by the Engineer shall be made by weight.

Computed on the bases of table 2. The Contractor shall not claim for the difference in the actual weights of bars and their standard weights given in Table-2 below.

Nominal Bar Diameter (Inches)*	Bar No.	Weight Lbs/ft.
1/4"	-	0.167
3/8"	#3	0.376
1/2"	#4	0.668
5/8"	#5	1.043
3/4"	#6	1.502
7/8"	#7	2.044
1"	#8	2.670
1-1/8"	#9	3.400
1-1/4"	#10	4.303
1-3/8	#11	5.313

2204.60 Lbs = 1.00 tonne

* to the nearest 1/7"

7.2.2 Payment:

Payment will be made for acceptable measured quantity of reinforcement on the basis of unit rate per metric ton quoted in the Bill of Quantities and shall constitute full compensation for all the works related to the item.

The rate quoted include all lead/lift required for steel fabrication & placement at/in any floor and at any height as per drawings.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 3000

STRUCTURAL STEEL WORKS

1. SCOPE
2. APPLICABLE CODES AND STANDARDS
3. MATERIALS
4. CONNECTIONS
5. ALLOWABLE STRESSES
6. SHOP DRAWINGS
7. FABRICATION
8. WELDER QUALIFICATIONS
9. WELDERS IDENTIFICATION
10. TEST ASSEMBLY
11. SURFACE PREPARATION AND PAINTING
12. INSPECTION AND TESTS
13. ERECTION
14. MEASUREMENT AND PAYMENT

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTIONS – 3000

STRUCTURAL STEEL WORKS

1.0 SCOPE

The work under this section consists of furnishing all material, labour, plant, equipment and appliances, fabricating, erecting, installing, testing, painting and all other items incidental to steel work for a complete job as shown on the drawings, specified herein and/or as directed by the Engineer.

2.0 APPLICABLE CODES AND STANDARDS

Latest edition of the following codes and standards are applicable to the work of this section:

AISC	Specifications for the design, fabrication and erection of structural steel for buildings.
ANSI / AISC 360	Manual of steel construction, LRFD & ASD.
AISC 303	Code of Standard Practice, for Steel Buildings and Bridges.
AISC	Specifications for structural joints using ASTM A325 or A490 bolts.
AISC	Guide to shop painting of Structural Steel.
ASTM A6	Standard specifications for general requirements for rolled steel plates, shapes, sheets, piling and bars for structural use.
ASTM A36	Standard Specifications for Carbon Structural Steel.
ASTM A53	Standard Specifications for Pipe, Steel, Black & Hot Dipped, Zinc Coated, Welded and Seamless
ASTM A307	Carbon steel externally and internally threaded standard fasteners.
ASTM A325	High strength bolts for structural steel joints including suitable nuts and plain hardened washers.
ASTM A446	Specifications for steel sheet zinc coated (galvanized) by the hot dipped process.
ASTM A490	Quenched and tempered alloy steel bolts for structural steel joints.
ASTM A501	Hot formed welded and seamless carbon steel structural tubing.
ANSI / NAAMM MBG 531	Metal Bar Grating
ASTM A563	Carbon and alloy steel nuts.
ASTM A572	Standard Specifications for High - Strength Low - Alloy Columbium – Vanadium Structural Steel
ASTM E109	Dry powder magnetic particle inspection.
AWS D1.1	Specifications for welding of steel structures.

ANSI
B 18.2.2.1 Plain Washers.

SSPC – SP6 Steel structures painting council – surface preparation specifications.

3.0 MATERIALS

Except otherwise stated on the drawings, the material specifications shall conform to the following. Wherever necessary the Contractor may use equivalent alternative material subject to approval of the Engineer.

3.1 Structural Steel

- Structural steel shall conform to the requirements of ASTM A-36, or ASTM A-572.
- Steel pipes shall conform to the requirements of ASTM A 53 Class B, ASTM A501 or shall be made of plates spirally welded.
- All material shall be supplied chirpy V-Notch testing in accordance with ASTM A6, Supplementary Requirement S5.
- Grating shall conform to ANSI / NAAMM MBG 531.

3.2 Welding

Welding electrodes shall match the base metal and shall conform to the requirements of AWS D1.1 specifications.

3.3 High Strength Bolts

All shop connections, except as noted herein or on the drawings, shall be made with High Strength Bolts in friction type connections, or by welding.

High strength bolts, heavy hexagonal nuts and hardened washers shall conform to the requirements of ASTM A325. All field connections, except noted, shall be made with high strength bolts in friction type connection.

3.4 Washers

Washers shall conform to the requirements of ANSI B18.2.2.1 and shall be of structural grade steel appropriate for the type of bolts for which they are used. For oversized holes, the washers shall be large enough to cover the entire hole by at least 6mm (1/4 in.) or as directed by the Engineer.

3.5 Studies

Steel Studies Shear Connectors shall conform to the requirements of Structural Welding Code-Steel, AWS D1.1.

4.0 CONNECTIONS

All connections shall be designed and detailed for 75% of the effective capacity of the member. A minimum of two bolts or equivalent welding shall be used per connection.

Shop connection may be welded or bolted. Field connections shall be bolted unless noted otherwise on design drawings or approved by the engineer.

5.0 ALLOWABLE STRESSES

Allowable design stresses for structural steel members and their connections, including temporary bracings and shorings shall be in accordance with AISC Specifications.

6.0 SHOP DRAWINGS

6.1 Shop drawings shall be submitted by the Contractor, for structural steel works, for acceptance in accordance with the requirements or the Contract Documents.

6.2 Shop drawings furnished for this section shall conform to the best standards of the construction industry. Shop drawings shall be prepared by and under the supervision of competent engineering personnel. Prior to submittal, the Contractor shall check each shop drawing for compliance with the requirements of the Contract Documents.

6.3 Shop drawings shall include plans, elevations, sections and complete details to describe clearly, at an ample scale, all work to be provided. Drawings shall be accurately dimensioned and shall be noted clearly.

6.4 All connections shall be designed and detailed as, per sub-section 4 above, by the contractor on the shop drawings. Design calculations for connections shall be made as per AISC specifications and shall be submitted along with the shop drawings after checking and signing by the Contractor for approval of the Engineer.

6.5 The shop drawings shall include

(i) An erection scheme, in suitable size, having the following information:

- Location of erection elements in respect of axis and Marks as well as picking points of these elements with respect to each other or with the existing steel or reinforced concrete structures.
- Joints showing erection welding sizes and lengths, bolts diameter and numbers.
- Chart showing list of assembling marks having columns such as Mark, Description, Quantity, Weight of each Mark, total weight and Remarks with grand total in the end.
- Chart showing List of Erection Bolts, Nuts and Washers in tabulated form, detailing information such as size, quantity, weight and their grand totals.
- Quality of materials.
- Quality and type of welding electrodes.
- Measures to be adopted against unscrewing of bolts.
- Painting instructions.
- Erection sequence.
- References to relevant drawings.
- Except in special cases all scheme drawings shall be made in single fairly thick lines.

- The recommended scale of erection scheme is 1:50, 1:100, 1:200, for joints 1:5, 1:10 or 1:20.

(ii) Fabrication drawings in suitable size shall contain the following information:

- Each Shop Assembly (Mark) shall be drawn separately showing necessary lines, elevations, sections with reference to axis, center lines, location of holes, cleats, plates, lugs etc. fully dimensioned with part numbers.
- Bolts and holes sizes.
- Welding symbols and welded joints requirements, in accordance with AISC manual of steel construction and AWS specifications.
- Geometrical Setting out dimensions necessary for the assembly of an element. Location and details of joints as calculated by the Contractor.
- Instruction for welding, dimensions of weld, edge preparations methods of welding, and methods for control of distortions.
- List of symbols for bolts and holes uses.
- List of symbols for welds used.
- Edge distance (general).
- Welding sizes and lengths (general).
- Standards and quality of materials.
- Type and quality of welding electrodes.
- Tests for welding.
- Reference to related erection scheme drawings.
- Reference to design and working drawings.
- Part list.
- Instructions for surface preparation, painting, primer and finish coats.

Recommended scales for fabrication drawings are preferably 1:10 or 1:20, and for joints and details 1:1, 1:2, or 1:5.

7.0 FABRICATION

The Contractor shall notify the Engineer about any problems or doubts/errors, if any, in the drawings for clarifications/rectification well in time to prevent any fabrication errors. Fabrication shall not be commenced until approval has been obtained from the Engineer.

7.1 Straightening of Material

Rolled material, before being worked upon shall be straightened within tolerances as per ASTM specifications A6. Straightening, necessarily shall be

done by mechanical means or by the application of a limited amount of localized heat. The temperature of heated areas, as measured by approved methods, shall not exceed 1200 ^{0} F.

7.2 **Cutting**

As far as practicable cutting shall be done by shearing. Oxygen cutting shall be done where shear cutting is not practicable and shall preferably be done by Machine. All edges shall be free from notches or burs. If necessary, the same shall be removed by grinding.

7.3 **Holes Punching/Drilling**

Holes shall be punched where thickness of the material is not greater than the diameter of bolt + 3mm (+ 1/8 in.). Where the thickness of the material is greater the holes shall either be drilled or sub-punched and reamed to size. The die for all sub-punched holes and the drill for all sub-drilled holes shall be at least 2mm smaller than the nominal diameter of the rivet or bolt.

7.4 **Welding**

7.4.1 All execution and inspection of welding shall be done in accordance with the provisions of the American Welding Society Specifications. No welding for piping/electrical supports shall be made transversely to any tension flanges or beams or columns.

7.4.2 Maximum and minimum size and lengths of fillet welds shall be in accordance with AISC specifications, or as mentions on drawing.

7.4.3 Surface to be welded shall be free from loose scale, slag, rust, grease, paint or any other foreign matter.

7.4.4 Butt welds shall be full penetration welds, unless otherwise specified and permitted.

7.4.5 Avoid the use of temporary welded attachments during fabrication as much as possible. After fabrication is completed, remove flush with the base material without encroaching on the minimum required base material thickness. After the surface has been restored, examine all areas from which temporary attachments have been removed by the same methods required for permanent fillet welds.

7.4.6 Do not begin structural welding until joint elements are tacked in intimate contact and adjusted to dimensions shown with allowance for any weld shrinkage that is expected. Weld heavy sections and those having a high degree of restraint with low hydrogen type electrodes. No member shall be spliced without approval.

7.4.7 For notch-toughness specified material, all weld metal, processes and preheat requirements shall be compatible to assure notch-tough composite weld metal.

7.4.8 Shop splices of webs and flanges in built-up girder shall be made before the webs and flanges are joined to each other.

7.5 **Tolerances**

Tolerances for Structural Steel be as per AISC Specifications unless noted otherwise.

8.0 WELDER QUALIFICATIONS

8.1 All welders contracted to perform work shall be required to show written evidence that they have been properly tested in compliance with the approved welding procedures.

8.2 Welders shall have been qualified in the proposed procedure by an established laboratory acceptable to the Engineer within the preceding 90 days.

8.3 All welders shall be qualified for the type of weldment, grade of steel, thickness of steel, welding process and welding position that they are employed to weld. Welders and welding operators that have not been performance qualified, for all material and thickness ranges used on the job, shall be restricted to welding only that portion of the work for which they are qualified.

8.4 Engineer reserves the right to have welders or welding operators requalified or removed from the job as he deems necessary during the progress of work. Engineer's decision regarding the qualifications of any welder shall be final.

9.0 WELDERS IDENTIFICATION

9.1 Each welder shall be assigned a unique identifying number or symbol that he shall use to identify all welding resulting from his skills.

9.2 Stenciled markings shall be applied within 40mm (1-5/8 in.) of the weld using low stress concentration dies. Written symbols are also acceptable.

9.3 A record shall be kept of these symbols by the Contractor. The records shall show welder's name, symbol assigned, procedures to which qualified, employment and test dates. This record shall be available to the Engineer's Representative at all times.

10.0 TEST ASSEMBLY

10.1 Fabricated components such as Beams Girders, Bracing, as and where required by planning, shall be test assembled in the shop prior to transportation to site.

10.2 Test assembly work and procedure should be planned during fabrication process.

10.3 Each test assembly shall be got inspected from the Engineer's Representative and shall be dismantled only after his approval in writing.

11.0 SURFACE PREPARATION AND PAINTING

Surface preparation and painting shall be in accordance with the provisions of the Code of Standard Practice of the American Institute of Steel Construction, Inc.

11.1 Surface Preparation

a) All steel shall be cleaned free from loose scale, rust, burrs slag, etc. by means of sand blasting and/or other approved means as recommended by the manufacturer of paint.

b) The sand used for this purpose shall conform to the type as specified in SSPC-SP.6. It should be free from earth, dust, clay and moisture. For this, the Contractor shall submit the gradation (no less than that

passing through a 16 mesh screen U.S. sieve series) and source of sand along with the sample for approval by the Engineer prior to commencing the sand blasting operation.

c) The size of sand particles, air pressure and size of the hose nozzle shall be correlated to give proper and acceptable surface.

d) Material which is to be used for fabrication of components to be galvanized later on shall not be cleaned (See clause 11.3).

11.2 **Painting**

a) After fabrication, assembly and surface preparation all assembled units shall be given two shop coats of epoxy primer and two coats of epoxy enamel paint in the fabrication shop.

b) One final coat of epoxy enamel paint shall be applied after erection of all components.

c) The thickness of each coat of paint shall be in accordance with the paint manufacturer's recommendation.

d) All other requirements for the specified paint system shall be in accordance with the paint manufacturer's specifications/ recommendations.

e) The type of primer & paints to be applied shall be as specified in clause 11.2.1.

f) The Contractor shall use the best quality of the type of paint specified and shall get the same approved by the Engineer.

g) Steel work/Surfaces not to be painted

i) Steel work to be encases/embedded in concrete or surface in contact with concrete or grout shall not be painted, but shall be given a cement wash after surface preparation.

ii) Machined finished surfaces shall not be painted but shall be coated with rust preventive compound, approved by the Engineer immediately after finishing. Such surfaces shall also be protected with wooden pads or other suitable means for transportation. Unassembled pins, keys, and bolt thread shall be greased and wrapped with moisture resistant paper.

ii) Contact surfaces of connections using high strength bolts in friction type connections shall not be painted. Such surfaces of all components after fabrication shall be cleaned free of paint. No coating whatsoever then shall be applied to such surface. The surface roughness for high strength friction grip holts is a very important factor therefore components shall not be erected unless approved by the Engineer.

11.2.1 **Primer and Paint**

11.2.1.1 **Primer:**

Primer shall be epoxy primer of a proven quality. The type of primer to be used shall be approved by the Engineer.

11.2.1.2 **Paint:**

Paint shall be epoxy enamel of a proven quality. The type of paint to be used shall be approved by the Engineer.

11.3 **Galvanizing (Zinc Coating)**

Galvanizing, wherever specified, shall be applied in a manner and of a thickness and quality conforming to the requirements of ASTM A123 standard specifications for zinc (Hot galvanized) coating on products fabricated from rolled, pressed and forged steel shapes, plates, bars and strips.

Components shall be galvanized i.e. zinc coated after complete fabrication i.e. welding, drilling etc. the process shall consist of removal of rust and mill scale by pickling in hydrochloric acid or sulphuric acid followed by water wash and prefluxing in tanks containing zinc ammonium chloride and then fluxing with ammonium chloride. The fluxed components shall then be passed through a drying oven prior to immersion in a bath of virtually pure molten zinc.

12.0 **INSPECTION AND TESTS**

12.1 Manufacturer's Test Certificate for all material used shall be furnished by the Contractor for Engineer's scrutiny and approval.

12.2 Rolling tolerance of all shapes and profile according to AISC shall be in accordance with the provisions of ASTM A6 specifications. These shall be checked by the Contractor before commencing work and shall be rejected if found not within limits.

12.3 Materials shall be tested for conformance with the specified standards at an approved testing laboratory as and when directed by Engineer.

12.4 Contract surfaces of connections using high strength bolts in friction type connections shall be got inspected and approved from the Engineer before bolting.

12.5 All bolted connections shall be got inspected and approved from the Engineer for types, size, number of bolts and installation including tightening.

12.6 Inspection and Testing - Welding

12.6.1 General

Welding shall be inspected and tested by an approved testing laboratory during fabrication and erection of structural steel as follows:

The testing laboratory shall be responsible for conducting and interpreting the tests. It shall state in each report whether or not the test specimens conform to all requirements of the Contract Document and shall specifically note any deviations therefrom.

Certify all welders and make 100 percent visual inspections and tests as follows:

- Record types and locations of all defects found in the welding work.
- The measures required and performed to correct such defects.

In addition to the requirements of AWS D 1.1, paragraph 8.15, each weld shall be visually free of slag, inclusions and porosity.

In addition to visual inspection of all welds magnetic particle, ultra-sonic and radiographic inspection shall be made of all welds as specified below. Magnetic particle tests shall be made on the root pass and finished weld.

The method of magnetic particle test shall be in accordance with ASTM E109. Any type of crack or zone of in-complete fusion or penetration shall not be acceptable.

Radiographic testing technique and standards of acceptance shall be in accordance with AWS D 1.1.

Ultra-sonic testing shall be performed in accordance with AWS D 1.1.

Welding inspection and test report showing evidence of the quality of welding shall be submitted by the Contractor. For each section of weld inspected and tested, furnish a report which clearly identifies the work, the welder's identification, the areas of inspections and test, the acceptability of the welds, and signature of the inspector or laboratory incharge. Each report shall be completed at the time of inspection or test. For radiographic examination, furnish a complete set of radiographs in addition to the reports. All inspection and testing shall be carried out in presence of the Engineer or his representative.

12.6.2 Test Methods

Use the following test methods as specified. The following list is in descending order. When a particular test method is specified for a joint and the method is impractical to use, use the next highest method practicable. The alternative method will be subject to approval, NDT procedures and techniques shall be in accordance with AWS D 1.1, section 6.7.

a) Radiographic Method: In addition to the requirements of AWS D 1.1, comply with ASTM E94.

b) Ultrasonic method.

c) Magnetic particle method.

d) Liquid Penetration Method: Visible-dye, solvent removable method only.

12.6.3 Members Designated for Tests

a) Built – up Members:

Examine 100 percent of flange-to-flange and web-to-web welding by the radiographic method. For all web-to-flange and pipe column seam welding, examine ten percent of each welder's work as follows:

- Full penetration groove welds by the ultrasonic.

- fillet welds and partial penetration groove welds by the magnetic particle method.

b) Moment Connection Joints:

- Examine 100 percent of all flange-to-flange and web-to-web welding as follows:

Full penetration groove welds by the ultrasonic method or other method as designated by the Engineer.

Fillet welds and partial penetration groove welds by the magnetic particle method.

- For all web-to-flange welding, examine ten percent of each welder's work as follows:

  Full penetration groove welds by the ultrasonic method or radiographic method as approved by the Engineer.

  Fillet welds and partial penetration groove welds by the magnetic particle method.

c) Column Base Plates.

Examine 100% of all welding for connection of base plate to column.

d) Bracing Connections: Examine 100 percent of all welding for connection of diagonal bracing as follows:

- Groove welds by the ultrasonic method.
- Fillet welds by the magnetic particle method.

12.6.4 Requirement for ten percent Examination

a) Examine a 300mm (12 in.) section of weld in each 3m (10 ft.) increment of each welder's work as directed by the Engineer. If the examination meets the acceptance standards of AWS D 1.1, the 3m (10 ft.) of weld represented will be accepted.

b) if the examination fails to meet the acceptance standards, examine two additional 300mm (12 in.) sections in the 3m (10 ft.) increment as directed by the Engineer. If both of these examinations meet the acceptance a standards, the 3m of weld represented will be accepted. Repair the defects detected in the first examination and re-examine.

c) If one or both of the examinations fails to meet the acceptance standards, examine the remaining weld of the 3m (10 ft.) increment. Repair the areas that do not meet the acceptance standards and re-examine.

12.6.5 Repair and Re-Testing of Welds

Repair defective welds in accordance with AWS D 1.1, or replace the weld, and Re-test repaired and replaced welds by the same method and acceptance standard used to examine the original weld. In addition, when defective welds are found, the testing laboratory shall determine the cause of the defective welding and institute immediate corrective action.

All defective welding shall be repaired or replaced at the Contractor's expense.

12.7 **Rejection**

Neither the fact that the materials have been tested nor that the manufacturers test certificates have been furnished shall effect the liberty of the Engineer to reject material found not according to these specifications.

Materials or workmanship not in conformance with the provisions of these specifications shall be rejected at any time, after delivery or during the progress of the work or the completion and erection at site.

13.0 ERECTION

13.1 **Bracing**

All steel structures shall be carried up true and plumb within the limits defined in the AISC code of standard practice, and temporary bracing shall be introduced wherever necessary to take care or all construction loads to which the structure may be subjected including the equipment and the operation of the same. Such bracing shall be left in place as long as required for safety.

Wherever piles of materials, erection equipment and other loads are carried during erection, proper provision shall be made by the Contractor to take care of the stresses resulting form such loads.

13.2 **Alignment**

No permanent bolting or welding shall be done at site during erection until as much of the structure as will be stiffened thereby has been properly aligned and approved by the Engineer.

13.3 **Joints Using High Strength Bolts**

All structural joints using high strength bolts shall be executed and inspected in accordance with “AISC Specification for structural joints using ASTM A325 or A490 bolts”. High strength bolts and nuts, loosened after tightening, shall be discarded and replaced with unused bolts and nuts.

14.0 MEASUREMENT AND PAYMENT

14.1 **General**

Except otherwise specified herein or elsewhere in the Contract Documents, no measurement and payment will be made for the under mentioned specified works related to the relevant items of the Bill of Quantities. The cost there of shall be deemed to have been included in the quoted unit rate of the respective items of the Bill of Quantities.

14.1.1 Nuts, bolts, screws, washers, weld metal and welding rods.

14.1.2 Testing of materials and welds, and repair of defects.

14.1.3 Surface preparation including cleaning with sand blasting.

14.1.4 Painting system including primer coats.

14.1.5 Galvanizing

14.1.6 Fabrication

14.1.7 Erection

14.2 **Structural Steel Works**

14.2.1 Measurement

Measurement of acceptably completed works of structural steel will be made on the basis of weight in kilogram OR per square foot as defined in the BOQ, according to approved shop drawings, after verification at site to the satisfaction of the Engineer that the items fabricated, supplied and erected in position conform with the contract and approved shop drawings.

14.2.2 Payment

Payment will be made for acceptable measured quantity of structural steel works on the basis of unit rate per kilogram OR per square foot quoted in the Bill of Quantities and shall constitute full compensation for all the works related to the item.

14.3 **SS Railing**

14.3.1 Measurement

Measurement of acceptably completed works of SS railing will be made on the basis of actual length in running meter/ running foot, according to approved shop drawings, after verification at site to the satisfaction of the Engineer that the items fabricated, supplied and erected in position conform with the contract and approved shop drawings.

14.3.2 Payment

Payment will be made for acceptable measured quantity of SS railing works on the basis of unit rate per running meter / running foot quoted in the respective items of Bill of Quantities and shall constitute full compensation for all the works related to the item.

14.4 **Steel Door**

14.4.1 Measurement

Measurement of acceptably completed works of Steel door will be made on the basis of net actual area in square meter / square foot, according to approved shop drawings, after verification at site to the satisfaction of the Engineer that the items fabricated, supplied and erected in position conform with the contract and approved shop drawings.

14.4.2 Payment

Payment will be made for acceptable measured quantity of Steel door on the basis of unit rate per square meter / square foot quoted in the respective items of Bill of Quantities and shall constitute full compensation for all the works related to the item.

14.5 **Steel Grating**

14.5.1 Measurement

Measurement of acceptably completed works of Steel grating will be made on the basis of weight in kilogram, according to approved shop

drawings, after verification at site to the satisfaction of the Engineer that the items fabricated, supplied and erected in position conform with the contract and approved shop drawings.

14.5.2 Payment

Payment will be made for acceptable measured quantity of Steel grating on the basis of unit rate per kilogram quoted in the respective items of Bill of Quantities and shall constitute full compensation for all the works related to the item.

14.6 **Steel Gate**

14.4.1 Measurement

Measurement of acceptably completed works of Steel Gate will be made on the basis of unit rate per square meter / square foot, according to approved shop drawings, after verification at site to the satisfaction of the Engineer that the items fabricated, supplied and erected in position conform with the contract and approved shop drawings.

14.4.2 Payment

Payment will be made for acceptable measured quantity of Steel Gate on the basis of unit rate per square meter / square foot quoted in the respective items of Bill of Quantities and shall constitute full compensation for all the works related to the item.

14.7 **Parking Shed**

14.4.1 Measurement

Measurement of acceptably completed works of Parking Shed will be made on the basis of unit rate per square meter / square foot, according to approved shop drawings, after verification at site to the satisfaction of the Engineer that the items fabricated, supplied and erected in position conform with the contract and approved shop drawings.

14.4.2 Payment

Payment will be made for acceptable measured quantity of Parking Shed on the basis of unit rate per square meter / square foot quoted in the respective items of Bill of Quantities and shall constitute full compensation for all the works related to the item.

SECTION - 4600

CARPENTRY AND JOINERY

1. SCOPE
2. MATERIALS
3. SAMPLES
4. FABRICATIONS
5. PROTECTION & MATERIALS
6. WOODEN DOORS
7. WOODEN RAILING
8. KITCHEN CABINETS
9. WOODEN FLOOR & WALL PANELING
10. SS & GLASS RAILING
11. DEFECTIVE WORK
12. SURFACE PREPARATION
13. MOCK-UP SAMPLE
14. MEASUREMENT & PAYMENT

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 4600

CARPENTRY AND JOINERY

1. SCOPE

The work covered under this section of Specifications consists of providing all material, labour, plant, equipment, appliances and performing all operations in any floor and at any height connected with the fabrication and erection of all woodwork, mill work, construction assembly, surface finish treatment and building in of all cabinet type items, supports etc. of wood or metal and incidentals, associated woodwork appurtenances, procuring and applying preservatives, installation of "Finish Hard Ware" in connection with finish woodwork as per details shown on the Drawings or as directed by the Engineer.

2. MATERIALS

2.1 Timber

2.1.1 Hard Wood :

Hard wood shall comprise of Oak, beech, Walnut Mahogany, Teak, Iroko and Sheesham.

2.1.2 Soft Wood :

All soft wood shall consist of pines, spruce, hemlock and douglas fir or cedrous deodar (referred in the document as deodar), wood locally known as 'Partal' to be used in shutter core where specified.

2.1.3 General Characteristics :

All the timber shall be in accordance with the requirements of BSI No: 1186, 'Quality of Timber and Workmanship in Joinery'.

The whole of the timber shall be from the heart of sound and fully grown tree, uniform in substance, straight in fibre, first class quality properly seasoned, free from large or loose dead-knots, open shakes and excessive sapwood. The scantlings of all timbers shall be bright, sound and square edged. The moisture content of timber shall not be more than 10 (ten) percent in case of soft wood and 7 (seven) percent in case of hard wood.

2.1.4 Preservation of Wood :

Prior to installation of all finish wood works in their respective positions, preservatives shall be applied to safeguard the wood work against fungus, termite and bores.

The preservatives shall be of the best available quality as approved by the Engineer. The method of application shall be strictly in accordance with the manufacturer's instructions. The treatment and application of all the preservatives shall comply with the requirements of BS-CP 98:1964.

2.1.5 Adhesive :

The adhesives shall conform to the requirements of BSI No. 745 "Animal Glues for Wood" manufactured by M/s Hoest shall be considered approved for this Project or as directed and approved by the Engineer.

2.1.6 Nails and Screws :

All nails and screws shall comply with requirements of BSI NO. 1202 and BSI NO. 1210 respectively.

2.2 Ply Wood

The ply wood shall comply in all respects with BSI No. 1455:1963. All the ply wood shall only be obtained from KDC Board (Pvt.) Limited, Jhelum as approved by the Engineer. All plywood shall be manufactured with phenol pharamaldihide or any other approved water proof adhesive but not with urea pharamaldihide.

Ply wood used for doors, and other similar works shall be to the thickness and size as shown on the Drawings or as directed by the Engineer. The grade shall be first quality and the face and back shall be free from end joints, dead knots, overlaps, patches and other similar defects. The surfaces shall be free, smooth for painting or polishing.

2.3 High Density Fibre (MDF) Board

Medium density fibre board to be used on the project shall be LASANI of thicknesses as specified in the drawings. Board shall be manufactured with water proof resinous glues and shall be guaranteed by the manufacturer. All boards MDF/Partical required for the exterior surfaces shall be laminated in approved colour and texture in factory as specified elsewhere.

3. SAMPLES

All samples of the material used for the work under this Section of Specification shall be approved by the Engineer and same type of material shall be used throughout the work. If the Engineer desires to get the material tested, this will be got done by the Contractor at his own cost from a laboratory approved by the Engineer.

3.1 Samples of Materials

All samples of the material used for the work under this Section of Specification shall be approved by the Engineer and same type of material shall be used throughout the work. If the Engineer desires to get the material tested, this will be got done by the Contractor at his own cost from a laboratory approved by the Engineer.

3.2 Shop Drawings

The Contractor shall submit detailed shop Drawings on the basis of the drawings, specifications including fittings, fixtures and hardwares to the Engineer before fabrication.

3.3 Mock-up Sample

After approval of shop drawings and tests etc., the contractor shall submit at his own cost one mock-up sample of each type of wood works complete with all fixing, fixtures accessories prior to the actual fabrication of the bulk.The samples shall be returned to the Contractor for incorporation in the works after installation of at least 80% of the works.

4. FABRICATION

4.1 General

'Unwrought' timber shall be used. Sawing shall be done true to the size and dimensions to finally meet the requirements of specified sizes and dimensions of the finished work. All framing shall be joined as shown on the Drawings or as directed by the Engineer. All joints shall be secured with sufficient number of nails. The Contractor shall perform all necessary mortising, tensioning, grooving, matching, tonguing, housing, rebating and all operations required for the correct jointing. The Contractor shall also provide all metal plates, screws, nails and other fixing material that may be ordered by the Engineer for the proper execution of the joinery work. Fabrication that develop defects due to bad workmanship or unsound materials not conforming to these specifications and the directions of the Engineer, shall be cut out and replaced at Contractor's own expense before the expiry of the maintenance period.

4.2 Doors

4.1.1 Verify design and size of doors required for each opening. Door thicknesses shall be 40 mm unless otherwise indicated.

4.1.2 Fabricate flush wood doors in accordance with the following requirements.

Cores: Edging of doors and shutters shall be of hard wood and cores shall be soft wood (solid core) planed to a smooth uniform thickness. All doors and shutters shall have teak wood lipping on all edges.

4.1.3 Face Panels

Door facing on each side of shutter shall consist of three or more veneered plies of commercial ply/teak ply or Sheesham ply as shown on the Drawings

Veneer plies shall have total minimum thickness of 3mm before sanding.

Door veneers shall be bonded to each other, and to core unit with approved adhesive and machine compressed.

5. PROTECTION OF MATERIALS

All materials and assembled units shall be protected from weather and stored in such a way as to prevent decay, warping and attack by fungus and termites.

6. WOODEN DOORS

6.1 Materials

6.1.1 First class Deodar wood as approved by the Engineer shall be used for door frames and door shutters except the core of shutters which shall be partal wood as specified and shown on drawings.

6.1.2 Architraves, beads, lippings shall be of Deodar wood of specified sizes and fixed as per details shown on Drawings.

6.2 Ground, Blocking & Nailing Strips

Ground, blocking and nailing strips shall be provided as necessary to receive the work included herein and as required for the work of other trades.

Except as otherwise shown or specified, ground blocking and nailing strips shall be secured in place as follows:

6.2.1 To steel--- by means of 3/8" diameter bolts spaced not over 3 feet.

6.2.2 To brick wall ---- by the use of cut nails spaced not more than 1.5 feet apart and driven directly into the block.

6.2.3 To poured concrete ---- by means of 1/4" diameter galvanized expansion bolts spaced not more than 1.5 feet part or by any approved method.

6.3 Exterior and Interior Door Frames

All exterior and interior door frames shall be fabricated of wooden sections of first class deodar wood frame as shown on drawings.

All exposed surfaces of frames and architraves/beads shall be painted with synthetic matt finished enamel paint of approved shade as per the instructions of the Engineer.

The door frames shall be secured in place by means of 4 inches screws and matching Rawal plugs and built into the plastered masonry after the same has dried. 4 number screws in each jamb and 2 number for upto 3.5 feet width and 3 number for upto 5 feet width of doors in the head shall be used.

6.4 Door Shutters

The shutters will be fixed to the frames with approved quality fittings as per hardware schedule.

6.4.1 All doors, shutters shall be fabricated in a workman like manner strictly to the correct sizes and shapes as shown on the Drawings or as directed by the Engineer.

6.4.2 The door shutters shall be built in sections, properly jointed and glued together. The surfaces shall be prepared for painting or polishing.

6.4.3 All door shutters shall be paneled, fabricated from first class deodar wood as shown on drawings.

6.4.4 Each door shall be constructed so as to permit the installation of hinges, knobs and locks in the position shown on the Drawings.

6.4.5 Completed doors shall be sound, rigid and free from defects and warp. All edges shall be aligned and smooth, joints shall be close fitting, hard wood doweled or mortised framed and of a strength to maintain frame and of strength to maintain the structural properties of the member connected. All adjoining faces and edges shall be flush and smooth. Edges shall be rectangular and solid.

6.4.6 All exposed surfaces of wooden frames and wooden shutters shall be painted with synthetic matt finished enamel paint of approved shade as per the instructions of the Engineer.

6.4.7 Chamfers shall be made as shown on the drawings or as directed by the Engineer.

6.5 Fitting, Hanging and trimming

All the doors shall be fitted, hung and trimmed as hereinafter specified and as indicated on the Drawings.

Doors shall have a clearance of 1/8" at sides and top unless otherwise directed by the Engineer and shall have 3/16" clearance at bottom. Doors shall be hung and trimmed with hardware as specified. All the locks shall be installed at the same height and shall be located at height as directed by the Engineer. Where directed by the Engineer margin for carpet shall be incorporated in the door shutter.

6.6 Hardware

Hardware shall be of best quality local make extra heavy duty and first class finished material. The Contractor shall obtain prior approval from the Engineer for quality, shape, pattern, and brand of all the hardware materials by providing samples and catalogues, etc., and shall provide and fix only the approved hardware materials. The fittings shall included but not necessarily be limited to the following:-

Sr. No.	Items	Shutters		Remarks
		Single	Double	
1.	Brass push plate	one	two	225mmx 300mm 18 gauge
2.	Brass Kick plate	two	four	
3.	Mortice lock (Japanese origin)	one	one	Except W C Doors
4.	Brass Tower/Sliding Bolt	one	one	W. C Doors single side only
5.	Brass Hinges	Four	Eight	
6.	Room number Brass (65mm x 65mm)	one	one	Except Toilets.
7.	Door Closer	One	Two	Except W. C Doors.
8.	Door Stoper	One	Two	Except attached Toilets & W.C Doors.

Hardware shall be carefully and securely fitted. Upon handing over the work, hardware shall be demonstrated to operate freely. Keys shall be placed into respective locks and upon acceptance of the work keys shall be tagged and delivered to the Engineer.

6.7 Quality Assurance

6.7.1 Tolerances: Doors shall be fabricated to following tolerances

- Size: Plus or minus 1/16 in overall dimensions
- Maximum Warp: 1/8"
- Squareness: Maximum diagonal difference 1/8" of (between length of diagonal measured on face of door from upper right corner to lower left

corner and length of diagonal measured from upper left corner to lower right corner).

6.7.2 Manufacturer's Qualifications: The manufacturer of doors herein specified shall have been in business of manufacturing doors of type specified for minimum period of five years.

6.8 Submittal

6.8.1 Provide manufacturer's literature completely describing products.

6.8.2 Provide shop drawings showing door types, details and locations, referred to the door type and hardware group shown on door and hardware schedules.

6.8.3 Provide certificates stating that doors were constructed with timber of the species specified having moisture content and meeting equilibrium and relative humidity requirements.

6.8.4 Submit samples of plywood for selection of colour and grain.

6.8.5 Procurement of materials shall be made only after the shop drawings and samples have been approved by the Engineer.

6.9 Product Delivery, Storage and Handling

6.9.1 Deliver and store products in waterproof, protective containers with seals unbroken and labels intact until time to use.

6.9.2 Keep products dry, stack products off ground on level platforms, fully protected from weather, including direct sunlight.

6.9.3 Identify type, size and location of each door before delivery in order to permit installation at correct location.

6.10 Installation

6.10.1 Install doors at correct openings and assure smooth swing and proper closer with frames.

6.10.2 Install finish hardware in accordance with manufacturer directions.

7. WOODEN RAILING

Material for wooden hand railing in stairs shall be superior quality teak wood/ deodar wood & 1½ inch dia mild steel pipes. It shall be fabricated and installed in accordance with the design shown on the drawings/details and as per the instructions of the Engineer. Sample of railing shall be fabricated & mock up samples installed at locations designated by the Engineer for approval, prior to starting work at site. Shop/detail drawing indicating the basic details at various locations including details at turnings shall be submitted by the Contractor for Engineer's approval. Hand railing shall be installed to line level and plumb. The surface of railing in stairs shall be prepared for polishing. The railing shall be polished/painted with clear lacquer and the steel surfaces shall be painted with matt finished enamel paint.

8. KITCHEN CABINET

All wooden kitchen cabinet works shall be fabricated by approved sub-contractor/manufacturer and shall be of best quality.

8.1 Shop Drawings

The details of these items shown on the drawing are tentative and shows basic configuration and design of these items

The contractor shall submit detailed shop drawings of these items on the basis of tentative detail shown on the drawings including all fitting, fixtures and hardware for the proper execution of kitchen cabinets for the approval of the Engineer before fabrication..

8.2 Installation

All the works, shall be installed in position by the manufacturer's skilled workmen specialized in the job. Works shall be executed in accordance with approved shop drawings and or as directed by the Engineer.

All work shall be thoroughly protected from damage at all times by suitable methods approved by the Engineer. Adjacent works shall similarly be protected from damage. Any damage or disfigurement shall immediately made good at Contractor's expense.

9. WOODEN FLOOR & WALL PANELING

Wooden floor & Wall Paneling works shall be fabricated by approved sub-contractor/ manufacturer and shall be of best quality.

9.1 Shop Drawings

The details of these items shown on the drawing or as BOQ are tentative and shows basic configuration and design of these items

The contractor shall submit detailed shop drawings of these items on the basis of tentative detail shown on the drawings or as BOQ including all fitting, fixtures and hardware for the proper execution of Wooden floor & Wall Paneling for the approval of the Engineer before fabrication..

9.2 Installation

All the works, shall be installed in position by the manufacturer's skilled workmen specialized in the job. Works shall be executed in accordance with approved shop drawings and or as directed by the Engineer.

All work shall be thoroughly protected from damage at all times by suitable methods approved by the Engineer. Adjacent works shall similarly be protected from damage. Any damage or disfigurement shall immediately made good at Contractor's expense.

10. SS & GLASS RAILING

Material for hand railing in stairs shall be 3” dia stainless steel pipe handrail, 1” dia stainless steel balustrades, ½” thick unbreakable security glass and clamps including all fixing accessories complete in all respect as shown on the drawings, It shall be fabricated and installed in accordance with the design shown on the drawings/details and as per the instructions of the Engineer. Sample of railing shall be fabricated & mock up samples installed at locations designated by the Engineer for approval, prior to starting work at site. Shop/detail drawing indicating the basic details at various locations including details at turnings shall be submitted by the Contractor for Engineer's approval. Hand railing shall be installed to line level and plumb.

11. DEFECTIVE WORK

In the event of non-conformance to specification and drawings, the wood works shall be rejected by the Engineer and the Contractor shall remove and replace the rejected work by new work of same specifications.

12. SURFACE PREPARATION

The surfaces of all wood works shall be prepared in the manner as directed by the Engineer for polishing or painting.

13. MOCK-UP SAMPLE

After approval of shop drawings and tests etc., the contract shall submit at his own cost one mock-up sample of each type of wood works complete with all fixing, fixtures accessories prior to the actual fabrication of the bulk.

The samples shall be returned to the Contractor for incorporation in the works after installation of at least 80% of the works.

14. MEASUREMENT & PAYMENT

13.1 General

Except otherwise specified herein or elsewhere in the Contract Documents, no measurement and payment will be made for the under mentioned specified works related to the relevant items of the Bill of Quantities. The cost thereof shall be deemed to have been included in the quoted unit rate of the respective/items of the Bills of Quantities.

The rates quoted by the Contractor in the Bill of Quantities shall include work to be executed under these specification in any floor and at any height except where otherwise specifically stated in the relevant item of Bill of Quantities and the Contractor shall not be entitled to any claim or claim any compensation on this account.

13.1.1 Glazing where required and all finished hardware fittings in carpentry and joinery works, including locks, kick and push plate, architrave, beading, handles, locking arrangements etc.

13.1.2 Prime coat, painting with synthetic enamel paint/lacquer polish in carpentry and joinery works/hand railing.

13.1.3 Anti termite treatment to wood works and adhesives

13.1.4 SS / Steel balusters, steel base and steel strip for wooden railing.

13.1.5 Deodar wood blocking, shipping & base frame work in cabinets/hand railing.

13.1.6 SS Plate in the door bottom.

13.2 Wooden Door

13.2.1 Measurement

Measurement of acceptably completed works of all types of wooden doors will be made on the basis of net actual area in square foot fabricated and installed in position as shown on the Drawings or as directed by the Engineer. Net area

will be measured in accordance with plastered masonry opening in between jambs and plastered head and bottom of shutter.

13.2.2 Payment

Payment will be made for acceptable measured quantity of all types of wooden doors on the basis of unit rate per square foot quoted in the Bill of Quantities against respective item and shall constitute full compensation for all the works including all hardwares & fittings like locks, tower bolts, push plates etc. as per details mentioned in Volume IV of Tender & Contract Document related to the item.

13.3 Kitchen Cabinets

13.3.1 Measurement

Measurement of acceptably completed work of kitchen cabinets will be made on the basis of net actual square foot of kitchen cabinets provided and installed in position as shown on the Drawings or as directed by the Engineer.

13.3.2 Payment

Payment will be made for acceptable measured quantity of kitchen cabinets on the basis of unit rate per square foot quoted in the Bill of Quantities. Payment shall constitute full compensation for all the works related to the item.

13.4 Railing

13.4.1 Measurement

Measurement of acceptably completed work of railing comprising all accessories will be made on the basis of net actual running foot of railing provided and installed in position as shown on the Drawings or as directed by the Engineer.

13.4.2 Payment

Payment will be made for acceptable measured quantity of railing on the basis of unit rate per running foot quoted in the Bill of Quantities. Payment shall constitute full compensation for all the works related to the item.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 6560

FALSE CEILING

1. SCOPE
2. GENERAL
3. SUBMITTALS
4. MATERIALS
5. DELIVERY, STORAGE AND HANDLING
6. EXECUTION
7. MEASUREMENT AND PAYMENT

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 6560

FALSE CEILING

1. SCOPE

The work under this section of the specifications, consists of furnishing all plant, labour, equipment, appliances and materials in any floor and at any height and in performing all operations in connection with providing and installing different types of false ceiling including suspension system complete, in strict accordance with this section of the specifications and the applicable drawings and subject to the terms and conditions of the Contract.

2. GENERAL

False ceiling shall be installed wherever indicated on the drawings by skilled technicians experienced in this type of work. Installation shall not commence in any room or space before completion of plasterwork on structural roofing/internal walling/external surfaces.

3. SUBMITTALS

3.1 Shop drawings shall be submitted showing reflected ceiling plan, locations of built in products and access facilities, dimensions, layout arrangements, hanger locations, structural connection, details of level changes, direction of pattern and panel joint details. The shop drawings shall be got approved by the Contractor from the Engineer in advance of under taking this item of works.

3.2 No materials shall be procured prior to approval of shop drawings and details.

3.3 The Contractor shall incorporate the required access panels of false ceiling as per approved shop drawings.

4. MATERIALS

4.1 Aluminium Tile

The Aluminium tile shall be of type and size as specified on the drawings with mineral wool insulation wrapped in polyethylene sheets, of an approved manufacturer.

Aluminium tiles to be installed by an approved recessed suspension system, strictly in accordance with the approved shop drawings, manufacturer's recommendations or instructions of the Engineer.

4.2 Aluminum Strips

Aluminum strip ceiling shall be aluminium strips of width as specified on the drawings, plain surfaced, with mineral wool insulation wrapped in polyethylene sheets of an approved manufacturer.

4.3 Gypsum Boards

The Acoustic Material Fiber Board shall be non-combustible Mineral Fiber of an approved manufacturer and shall be of the type as specified on the drawings.

4.4 Aluminum / Gypsum Board Grid Cell/ Gypsum Board/ Lassani Wood / Honey Comb / Baffles System False Ceiling.

Aluminum/ Gyspum board Grid cell / Gypsum Board/ Lassani Wood/ Honey Comb / Baffles system false ceiling shall be installed at designated places as specified in the schedules, BOQ and as instructed by the Engineer. Contractor shall submit literature pertaining to this type of ceiling for the approval of the Engineer. Detailed shop drawings covering the layout,

level difference details/connection/suspension etc. details and all relevant technical details shall be submitted for Engineers approval.

4.5 Suspension System

The suspension system for all types of false ceiling shall be in accordance with the recommendations of the approved false ceiling manufacturer and approved shop drawings, galvanized steel universal U-channels/ main T/Cross-T Bars, wall moldings/ edge trims, hold down/adjustment clips, galvanized hanger strips with adjustment mechanism, etc. Main-T/Cross-T bars shall have the exposed surface finished in the desired colour as per the instructions of the Engineer.

5. DELIVERY, STORAGE AND HANDLING

5.1 Material shall be delivered in original, unopened, protective packaging, with manufacturer's labels indicating brand name, pattern, size, thickness and fire rating.

5.2 Material shall be stored in original protective packaging to prevent soiling, physical damage or wetting.

5.3 Cartons shall be stored in the installation area, opened at each end to stabilize moisture content and temperature, for 48 hours prior to installation.

6. EXECUTION

False ceiling shall be installed wherever indicated on the drawings by skilled technicians experienced in this type of work. Installation shall not commence in any room or space before completion of plasterwork on structural roofing/internal walling/external surfaces.

6.1 Job Site Conditions

6.1.1 Work, which will be concealed by false ceilings, shall be completed, tested, inspected and accepted before ceiling work is started.

6.1.2 False ceiling installation shall not begin until the area has been closed in, and temperature and humidity approximate occupancy conditions. Wet work shall be cured and dry before ceiling work is started.

6.1.3 Surface which will support the ceilings, and those to which the ceiling abut, shall be inspected and accepted for completeness and adequacy to receive the ceilings before the work begins.

6.2 Installation and Workmanship

False ceiling suspension system and panels shall be installed in accordance with the manufacturer's recommendations and as approved by the Engineer.

6.2.1 Suspension System

The hangers as specified shall be evenly disposed as per drawings, details and place and position as indicated. The suspension system should be installed by making holes directly in the roof and shall be made good as directed by the Engineer. Their lengths clear of roofing slab shall be as per shop drawing details.

The framing of the specified sections, jointing of runners to hangers, extra framing where required shall be provided for light receptacles as per approved shop drawing details.

Wall hangers shall be positively and rigidly connected to the structure and to cross runners.

6.2.2 Tiles/Strip False Ceiling/Aluminum/ Gypsum board Grid cell / Gypsum Board/ Lassani Wood/ Honey Comb / Baffles system false ceiling.

Panels shall be installed in the grid system after completion of installation of the suspension of lighting and air conditioning fixtures.

Forming ceiling panels shall be laid out in pattern including border of uniform width around all sides of each ceiling area. The pattern shall be as per shop drawings approved by the Engineer.

All panels shall be furnished and installed in an approved manner and as per approved types, sizes and surface design.

6.3. **Installation of Fixtures**

Light fixtures shall be installed as per approved pattern and supported in accordance with manufacturer's recommendations.

6.4 **Finishing**

After installation, dirty, soiled or dis-coloured surfaces shall be cleaned and left free from defects and ready to receive any painted finish if required.

The panels, which are damaged or improperly installed, shall be removed and replaced by the Contractor at his cost.

7. MEASUREMENT AND PAYMENT

7.1 General

Except otherwise specified herein or elsewhere in the Contract Documents, no measurement and payment will be made for the under mentioned specified works related to the relevant items of the Bill of Quantities. The cost thereof shall be deemed to have been included in the quoted unit rate of the respective items of the Bill of Quantities.

- The rates quoted by the Contractor in the Bill of Quantities shall include work to be executed under these specification in any floor and at any height except where otherwise specifically stated in the relevant item of Bill of Quantities and the Contractor shall not be entitled to any claim or claim any compensation on this account.

- Aluminum approved suspension system including main channels, main tee/cross tee bars, wall moulding and edge trims, hanger strips and accessories, hold down clips, Aluminum tiles / strips etc. complete for aluminum tile / strips ceiling.

7.2 Measurement

Measurement of acceptably completed works of respective types of false ceiling will be made on the basis of plain area in square meter / square foot of false ceiling provided and installed in position as shown on the Drawings or as directed by the Engineer.

No separate measurement shall be made of drop-off, boxes, offsets, beams, corners, beading, access panels, lighting slits and pergolas etc..

Openings / Fixtures having cross sectional area more than four square feet shall be deducted

7.3 Payment

Payment will be made for acceptable measured quantity of respective type of false ceiling on the basis of unit rate per square meter / square foot quoted in the Bill of Quantities and shall constitute full compensation for all the works related to the item.

No separate payments shall be made of drop-off, boxes, offsets, beams, corners, beading, access panels, lighting slits and pergolas etc..

Openings / Fixtures having cross sectional area more than four square feet shall be deducted

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 6700

PAINTING

1. SCOPE

2. APPLICABLE STANDARDS

3. GENERAL

4. MATERIALS

5. DELIVERY, STORAGE AND CONTAINER SIZES

6. SURFACE PREPARATION

7. APPLICATION

8. FINSHES

9. QUALITY ASSURANCE

10. SCHEDULE OF MEASUREMENT OF PAINT AREA

11. MEASUREMENT AND PAYMENT

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SECTION - 6700

PAINTING

1 SCOPE

The work under this section of the Specifications consists of furnishing all materials, plant, labour, equipment, appliances and performing all operations in connection with surface preparation, mixing, painting concrete works, Metalworks, wood works, Structural steel, walls, ceilings, pipes ,valves and all such surfaces as shown on the Drawings and/or as directed by the Engineer. The scope of this section of specification is covered with detailed specifications as laid down herein.

2 APPLICABLE STANDARDS

Latest editions of following British Standards are relevant to these specifications wherever applicable.

BSI (British Standards Institution)

245	Specification for mineral solvents (white spirits and related hydrocarbon solvents) for paints and other purposes.
2521	Lead-based priming paint for wood work.
2523	Lead based priming paint for iron and steel.
2569	Sprayed metal coatings.
4800	Paint colours for building purposes.
CP. 231	Painting of building.
CP.3012	Cleaning and preparation of metal surfaces.

3 GENERAL

3.1 Except as otherwise specified, all painting shall be applied in conformity with BS CP 231 "Painting of Building" as applicable to the work.

3.2 The Contractor shall repair at his own expense all damaged or defective areas of shop-painted metal work and structural steelwork. Metal surfaces against which concrete is to be placed will be furnished shop-painted and shall be cleaned prior to being embedded in concrete.

3.3 Except as otherwise specified, all concrete and plastered surfaces are to be painted.

3.4 The Engineer will furnish a schedule of colours for each area and surface. All colours shall be mixed in accordance with the manufacturer's instructions.

3.5 Colours of priming coat (and body coat where specified, shall be lighter than those of finish coat. The Engineer shall have unlimited choice of colours.

3.6 Samples of all colours, and finishes shall be prepared in advance of requirement so as not to delay work and shall be submitted to the Engineer for approval before any work is commenced. Any work done without such approval shall be redone to the Engineer's satisfaction, without additional expense to the Employer. Samples of each type of paint shall be on separate 300 x 300 x 3 mm tempered hard board panels. Manufacturer's colour chart shall be submitted for colour specifications and selection.

4 MATERIALS

4.1 All materials shall be acceptable, proven, first grade products and shall meet or exceed the minimum standards of reputable manufacturers as approved by the Engineer.

4.2 Colours shall be pure, non-fading pigments, mildew-proof sun- proof, finely ground in approved medium. Colours used on- plaster and concrete surfaces shall be lime-proof. All materials shall be subject to the Engineer's approval.

4.3 All synthetic enamel paints and primers for structural steel works, metal work, will be the best available of its type and shall be approved by the Engineer prior to its procurement.

4.4 Unless otherwise specified on Drawings approved quality Durocem/snowcem paint or approved equivalent shall be used for painting the exteriors of the structures or other surfaces and/or as directed by the Engineer.

4.5 The plastic emulsion/weather shield/ vinyl emulsion paint or similar as approved by the Engineer shall be used for interior surfaces.

4.6 Approved quality plasticised Duco Hi Build paint or approved equivalent shall be used for painting the wooden doors or other wood surfaces as shown on the drawings or as directed by the Engineer.

4.7 Fire resistant painting shall be proprietary painting material to be applied in conformity with the recommendations and instructions of the manufacturers.

4.8 Where ever Multi-colour paint coating for interior is specified ZOLA COAT or equivalent as approved by the engineer is to be used. Painting shall be proprietary painting material to be applied in conformity with the recommendations and instructions of the manufacturers.

4.9 Where ever Textured roll on paint for interior is specified, ICI, Dulux or equivalent as approved by the Engineer to be used . Painting shall be proprietary painting material to be applied in conformity with the recommendations and instructions of the manufacturers.

4.10 All material shall be delivered to site in their original unbroken containers or packages and bear the manufacturer's name, label, brand and formula and will be mixed and applied in accordance with manufacturer’s recommendations.

4.11 All sprit polish or wax polish shall be first grade of reputable manufacturer as approved by the Engineer.

5 DELIVERY STORAGE AND CONTAINER SIZES

Paints shall be delivered to the site in sealed containers which plainly show the type of paint, colour (formula or specifications number) batch number, quantity, date of manufacture, name of manufacturer and instructions for use. Pigmented paints shall be supplied in containers not larger than 20 liters. All materials shall be stored under cover in a clean storage space which should be accessible at all times to the Engineer. If storage is allowed inside the building, floors shall be kept clean and free from paint spillage.

6 SURFACE PREPARATION

6.1 All oil, grease, dirt, dust, loose mill scale and any other foreign substance shall be removed from the surface to be painted, polished and white washed by the use of a solvent and clean wiping material. Following the solvent cleaning, the surfaces shall be cleaned by scrapping, chipping, blasting, wire brushing or other effective means as approved by the Engineer.

6.2 In the event the surfaces become otherwise contaminated in the interval between cleaning and painting, recleaning will be done by the Contractor at no additional cost.

6.3 Surfaces of stainless steel, aluminium, bronze, and machined surfaces adjacent to metal work being cleaned or painted shall be protected by effective masking or other suitable means, during the cleaning and painting operations.

6.4 All the surfaces to be painted with approved quality paint or approved equivalent shall be free from dust, dirt, fungus, lichen, algae etc. Oil paint, varnish and lime wash should always be removed by scraping and washing.

6.5 All surfaces to be painted with Duco paint or approved equivalent shall be free from dust, dirt, oil/grease, etc. Wipe over with a rag soaked in thinner or petrol before painting. The Contractor shall apply sufficient under coat to ensure that no dried film

is left on all undercoated areas after flatting. Apply 2-3 coats of Duco Primer surfaces after thinning one part with one part Duco thinner. Dry for 5 to 10 minutes between coats. Leave it to hard dry and petrol wipe before applying Duco Hi-Build.

6.6 No work in this section shall be allowed until all surfaces or conditions have been inspected and approved by the Engineer.

7 APPLICATION

7.1 All paint and coating materials shall be in a thoroughly mixed condition at the time of application. All work shall be done in a workman like manner, leaving the finished surface free from drips, ridges, waves, laps, and brush marks. All paints shall be applied under dry and dust free conditions. Unless approved by the Engineer paint shall not be applied when the temperature of the metal or of the surrounding air is below 7 degrees centigrade. Surfaces shall be free from moisture at the time of painting.

All primary paint shall be applied by brushing. The first coat of paint shall be applied immediately after cleaning. When paint is applied by spraying, suitable measures shall be taken to prevent segregation of the paint in the container during painting operation.

Effective means shall be adopted for removing all free oil and moisture from the air supply lines of the spraying equipment.

Each coat of paint shall be allowed to dry or harden thoroughly before the succeeding coat is applied. Surfaces to be painted that will be inaccessible after installation shall be completely painted prior to installation.

Two coats of weather shield paint shall be applied in accordance with the manufacturer's instructions or as directed by the Engineer.

Only as much material should be mixed as can be used up in one hour. Over-thinning will not be permitted. After the first coat the surfaces will be soaked evenly four or five times and the second coat shall be applied after leaving for at least overnight.

7.2 Where shown on Drawings all exterior finishes shall be painted with Weather Shield paint in approved colours as per manufacturer's specifications. The number of coats shall be as shown on the drawings or as directed by the Engineer.

7.3 All wooden doors shall be painted with approved plasticised Duco Hi-Build paint or approved equivalent as per manufacturer's recommendation and instructions after approval of the Engineer.

7.4 Plastic emulsion paint of the approved make and shade shall be applied to surfaces as shown on Drawings as per manufacturer's instructions. The number of coat shall be as indicated on the Drawings or as directed by the Engineer.

7.5 Where mentioned on Drawings doors and glazed ventilators shall have fire resistant painting of 90 minute rating and shall be applied as per the manufacturer's recommendation and instructions after the Engineer's approval.

7.6 **Polishing**

Surfaces to be polished shall be rubbed down with suitable sand paper to smooth surface. Filling shall be done with an approved filler and again rubbed so that the surface is smooth free from raised grains, holes, rough spots and gives a silky feeling. It shall then be finished with wax polish or spirit polish of approved manufacturer.

7.6.1 **Wax Polish:**

The surfaces shall be dusted off and rubbed over with approved mineral oil. After an interval of at least 48 hours wax polish shall be applied in two coats and buffed to the approved finish.

7.6.2 **Spirit Polish/French Polish:**

Dana Lakh shall be melted in spirit overnight and clean sediment free spirit polish prepared. With a soft cloth or pad, the polish shall be applied to the surface coat after coat until the surface is shiny, smooth, satin finish to the approval of the Engineer

7.7 **White or Colour Washing**

7.7.1 Fresh white lime slaked at site of work should be mixed with suficient water to make a thin cream. The approximate quantity of water required in making the cream is 5 litre of water to 1 kg of lime. It shall then be screened through a coarse cloth and gum (glue) in the proportion of 1`00 grams of gum to 16 litres (thre chattacks of gum to 6 gallon) of wash shall be added. The surface should be dry and thoroughly cleaned from dust and dirt. The wash shall be applied with 'moonj' or jute brush, vertically and horizontally allternatively, and fine wash kept stirred in the container while using. Two or three coats shall be applied as specified and each coat shall be perfectly dry befoe the succeeding coat is applied over it. After finishing, the surface shall be of uniform colour. The white wash should not splash on the floor and other surfaces. In old surface the surface should be cleaned and repaired with cement mortar where necessary and allowed to dry before white wash is applied. For final coat blue pigment powder should be mixed to the required quantity with the lime water to give a bright white surface.

7.7.2 Colour wash shall be prepared with fresh slaked white lime mixed with water to make thin cream adding the coloured pigment to the required quantity to give the required tint. Gum (glue) in the proportion of 100 gm of gum to 16 litre of wash shall be added. The colour wash may be applied one or two coats as specified. The method of application should be same as for white washing. For new work the priming coat shall be of white wash.

8 FINISHES

The finished coating film shall show uniform coverage throughout and shall be reasonably free from brush marks, runs, sags, or noticeable colour variations. Edges where coating ends, change colour or change thickness shall be clean and straight.

The completed coating shall be compared with sample areas. The completed coating shall be at least as smooth (free from orange peel effect, overspray, embedded or partially embedded particles, craters, pinholes, holes, etc.) as the approved sample areas.

The thickness of the coating shall be checked by the Engineer at random locations by cutting out sections on concrete and plaster surfaces. The cut out sections shall be patched by the Contractor, using the same material and thickness used originally. Porosities shall be marked and patched with the basic primer material, or with a mixture of the basic primer material and finely divided filler, or with a proprietary patching compound compatible with the coating. Any moisture on the surface of the coating shall be allowed to dry thoroughly before patching. In addition, all porosities and imperfections which become evident after applying subsequent coats shall be repaired. This repairing shall be done with the basic coating material or with a proprietary patching compound compatible with the specified coating, except for the top coat, where only basic coating material shall be used. The completed coating shall be free of porosity visible to the naked eye.

9 JOB CONDITIONS

9.1 Observe manufacturer's recommended minimum and maximum temperature but do not apply paint or finish to any surface unless ambient temperature is 10 degree C or above and less than 43 degree C. No painting shall be done above 90% relative humidity.

9.2 Place drop cloths to adequately protect all finished work.

9.3 Remove and replace all items of finish hardware, device plates, accessories, lighting fixtures or other removable items.

9.4 In no case shall any finish hardware or other finished item that is already fitted into place be painted, unless otherwise specified.

10 QUALITY ASSURANCE

All paint for any one surface shall be top quality, of one manufacturer and approved by the Engineer. Deep tone accent colours shall be used and the unavailability of final coat colours may be the basis for rejecting materials for any one surface.

11 SCHEDULE OF MEASUREMENT OF PAINT AREA :

11.1 Irrespective of prime coats and number of paint coats applied to exposed painting surface area of column, walls, projections; ceilings and other surfaces (Except gates, doors windows and ventilators the cost therof shall be deemed to have been included in quoted unit rate of the respective items of Bill of Quantities) shall be measured as per actual paint surface area for single time only and paid in accordance with quoted rate of Bill of Quantities

12 MEASUREMENT AND PAYMENT

12.1 General

12.1.1 Measurement for payment purposes shall be made against the respective item(s) of works given in the Bill of Quantities which have been completed in-accordance with the Scope of Works specified in this Section.

12.1.2 The item rates quoted by the Contractor shall be deemed to include full compensation of works executed at any floor and at any height except where otherwise specifically stated in the relevant item of the Bill of Quantities or Contract Documents.

12.1.3 Except otherwise specified herein or elsewhere in the Contract Documents, no measurement and payment will be made for the under mentioned specified works related to the relevant items of the Bills of Quantities. The cost thereof shall be deemed to have been included in the quoted unit rate of the respective items of the Bills of Quantities.

12.1.3.1 Preparatory works, including preparatory materials, scraping, scratching, sand blasting, cleaning, priming, protection of finished works etc.

12.2 Measurement

Measurement of works against respective item(s) given in the Bill of Quantities, acceptably completed in-conformance with the specifications under this Section, shall be made to the neat lines shown on the drawings and on the basis of No. of Units given in the Bill of Quantities.

12.3 Payment

Payment of acceptably completed works against respective item(s) given in the Bill of Quantities, as measured above, shall be made on the basis of Unit Rate quoted in the Bill of Quantities and shall constitute full compensation for all incidentals / associated works specified in this Section relevant to the item(s).

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SECTION – 8001

GENERAL SPECIFICATIONS FOR ELECTRICAL WORKS

1.0 SCOPE OF WORK

2.0 RULES & REGULATIONS

3.0 AMBIENT CONDITIONS

4.0 STANDARDS

5.0 SYSTEM DATA

6.0 EQUIPMENT

7.0 DRAWINGS AND DATA TO BE FURNISHED BY THE CONTRACTOR

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11.0 ASSOCIATED CIVIL WORKS

12.0 INSTALLATION INSTRUCTIONS - GENERAL

13.0 FACTORY TESTS

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15.0 APPENDICES TO BE FILLED IN BY THE BIDDER

16.0 PAYMENT

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1.0 SCOPE OF WORK

The works related to the electrical system which is included in the Scope of this Contract as shown on the Drawings, stated in the Specifications and Bill of Quantities and explained in these Specifications. The works shall broadly include but not limited to the following:

- General Specifications for Electrical Works
- Power Transformer
- LT Distribution Boards
- Light Fixtures
- Low Tension Cables
- Wiring Accessories
- Conduits and Pipes
- Earthing
- Lightning Protection System
- Miscellaneous Items
- Structured Cabling Network
- Fire Alarm System
- Closed Circuit Television System
- Public Address System
- Cable Antenna TV System

The Contractor shall also be responsible to supply any other equipment not specifically mentioned in these Documents but which is necessary for proper operation of the works/system included in the scope of this Contract. The Contractor shall solely be responsible for ensuring proper functional requirements of different equipment. He shall also be responsible for furnishing any additional piece of equipment and for making modification in the equipment as desired and/or approved by the Engineer to achieve proper co-ordination with various equipment offered in the bid and also with those installed by others.

2.0 RULES & REGULATIONS

The entire electrical installation/work shall be carried out by licensed Contractor, authorised to undertake such work under the provisions of the Electricity Act 1910 and The Electricity Rules 1937 as adopted and modified upto date by the Government of Pakistan.

All works shall be carried out in accordance with the latest edition of the Regulations of the Electrical Equipment of Buildings issued by the Institute of Electrical Engineers-London, the Contract Documents, The Electricity Rules 1937 and bye-laws that are in force from time to time. Any discrepancy between these Specifications and any other rules and regulations shall be brought to the notice of Engineer for his instructions and the discussion of the accepting/controlling shall be final and conclusive.

The Contractor shall be responsible for completing all formalities and submitting

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the test certificates as per prevailing rules and regulations, and shall have the installation passed by the Government Electric Inspector of that region. All requirements of the Electric Inspector and the WAPDA / DISCO shall be complied with.

3.0 AMBIENT CONDITIONS

All material and equipment supplied and installed shall be designed, manufactured and tested to meet the following ambient conditions unless specifically stated otherwise for any material/ equipment.

Maximum indoors ambient temperature	:	45-Degree Celsius
Minimum indoors ambient temperature	:	Zero Degrees Celsius
Maximum outdoors-ambient temperature	:	50-Degree Celsius
Minimum outdoors-ambient temperature	:	Zero Degrees Celsius
Maximum Relative humidity	:	100 Percent
Maximum Altitude of project	:	220 meters above the mean Sea level.

The atmospheric conditions are tropical and highly humid.

4.0 STANDARDS

The latest standards and codes of reputable organisations shall be applicable for the material and equipment specified herein and for installation work. Such organisations to be BSS, VDE, NFPA 99, NEC Article 517 etc. In case the Specifications laid down herein differ from those given in the standards, then the equivalent or better specifications shall govern. Wherever applicable the equipment shall also conform to the requirements of Pakistan Standard Institution (PSI).

Contractor shall maintain at the site office one copy of the standards / codes applicable to the works.

5.0 SYSTEM DATA

Unless otherwise specified elsewhere, all equipment and material shall be designed to operate satisfactorily with the following minimum requirements without any de-rating.

a) Voltage rating of equipment :	HT :	11 kV, 3 phase, +/- 10%
	LT :	400 V, 3 phase, +/- 10%
		230 V, 1 phase, +/- 10%
b) Frequency	:	50Hz $\pm$ 2Hz

In general, the electrical colour coding of switchgear cubicles, control panels, desks etc., shall be in accordance with the respective IEC Recommendations.

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Live parts of electrical connections shall be colour coded according to IEC 446 as follows:

	Conductor Designation	Coding Alphanumeric	Colour
A.C. Network	Phase 1	L 1	red
	Phase 2	L 2	yellow
	Phase 3	L 3	blue
	Neutral	N	black
D.C. Network	Positive	L+	white
	Negative	L-	black
Earthing	Protective Earth	PE	green/yellow
	Earth	E	green/yellow

The colour coding for the secondary circuits of isolated power panel board is as follows:

Orange-Isolated Phase Conductor
Brown- Isolated Neutral Conductor
Green-Isolated Ground Conductor

Conductor insulation of secondary circuits of isolated power panel board shall be XLPE and PVC sheathed.

Control Cables

The Control Cables shall be manufactured according to specifications for L.T. Cables. The Control Cables shall be of multi-core, PVC insulated type withstanding without deterioration the conditions prevailing at the place of installation. The cross section of cable shall be as per the requirement of the system.

All the cores should be numbered and/or colour coded or otherwise properly identified. At-least 20% spare cores shall be provided in all Control Cables.
No separate payment is admissible for supplying, installing, testing and commissioning of control cables and is deemed to have been included in the BOQ rates of the respective equipment.

Distance in between power, communication and control cables shall be kept as per requirements laid down by NEC800, NFPA 70 and EN50174-2.

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6.0 EQUIPMENT

6.1 IP Degree of Protection

The equipment shall have IP degree of protection as follows, unless mentioned other wise:

- IP 20 for indoor areas
- IP 42 for indoor damp areas
- IP 54 for outdoor areas

If properly rated equipment is not available, the Contractor shall provide field enclosures to attain the required IP degree of protection. If necessary cooling/exhaust fans and / or anti condensate heaters shall also be provided. No separate payment shall be made to attain the required IP degree of protection.

6.2 Identification & Labelling

All devices, meters, cabling, wiring and auxiliaries shall be properly labeled for identification. Labeling of equipment shall be done by means of flameproof material using indelible ink/marking. The labeling shall be such as to ensure uniformity and shall facilitate study of control diagrams/ drawings during operation and maintenance.

All labeling shall be of suitable size to be visible from the operating conditions/positions at site.

6.3 Lamp Test Facility

All equipment / switchboards, etc. shall be provided with common lamp test facility.

7.0 DRAWINGS AND DATA TO BE FURNISHED BY THE CONTRACTOR

The shop drawings, as-built drawings and/or technical data to be furnished by the Contractor for each electrical equipment, LT cable distribution layout & shall include, but not limited to the following:

(a) Structural drawings showing foundations, RCC details dimensional plans, elevation and sections on a suitable scale.

(b) Electrical drawings showing:

- Line diagrams of Switchboards, Motor Control Centres, distribution boards and isolated power panels with detailed wiring diagrams, elevations/internal component layout and other

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standard details.

- LT Cabling, Grounding/Earthing including all cable routing and support details.
- Necessary execution details such as no. of cable/wires, size of conduits, cable routes, cable trays and cable trenches, etc.
- Substation and Generator Room Equipment installation detail.
- Manhole/Duct works.

(c) Layouts of all LT cable routes with coordinates and levels.

(d) Technical literature and manufacturer's characteristic data with the description of materials and weights of all equipment as instructed by the Engineer.

At least three (3) copies of the shop drawings and/or technical data of the equipment shall be submitted to the Engineer for checking and approval.

8.0 MANUFACTURER'S INSTRUCTIONS

The Contractor shall supply to the Engineer in properly bound form six (6) copies of manufacturer's instruction manuals for installation, testing, commissioning, operation and maintenance of the specified equipment including manuals of spare parts and tools of the equipment. At least two copies of the documents shall be submitted in original. The installation instructions shall be submitted 2 weeks prior to commencement of installation of each equipment, and operation and maintenance instruction at the time of commissioning. If the Contractor fails to provide the documents the Engineer shall withhold issuance of requisite certificates and deduct suitable amount from the payments to the Contractor.

9.0 GUARANTEE

The Contractor shall furnish written guarantee of the manufacturer or supplier with respect to satisfactory performance of each equipment. Guarantee shall be given for replacement and repair of part or whole of the equipment, which may be found defective in material or workmanship. The guarantee shall cover the duration of Maintenance Period as defined in the Conditions of Contract. This guarantee shall not relieve the Contractor of his obligations and he will be fully responsible for the repair or replacement of any defective material in time, so as not to cause any undue delay in carrying out the repairs and/or replacements.

10.0 DANGER BOARDS WITH SIGNS, DESIGNATION AND SHOCK / FIRST AID CHARTS AND FIRE FIGHTING EQUIPMENT

Danger Boards having signs and designation of the room shall be installed on the external door of HT, LT, Power transformer, Low Voltage DG Set Rooms. Shock/First Aid Charts shall be installed in H.T, L.T and Low Voltage DG Set Rooms.

Potable fire fighting extinguisher suitable to control electrical fire shall be provided in H.T, L.T, Power Transformer and Low Voltage DG Set Rooms.

All the above items shall also be provided, wherever required to comply the requirements of the Pakistan Electricity Rules/Electric Inspector.

Laminated single line and adequate detail drawings on proper boards highlighting the main system features shall be displayed/ fixed in respective electrical and communication rooms.

11.0 ASSOCIATED CIVIL WORKS

Except where separately stated in the Bill of Quantities the cost of all civil works associated with any BOQ item of electrical works, such as excavation and back filling of earth, compaction of the earth, foundation pads, chiselling, making openings, etc. shall be included in the price quoted against respective items. No separate payment for such works will be made. Such works will also include repair of any damage to civil works caused by the Contractor during electrical installation.

12.0 INSTALLATION INSTRUCTIONS - GENERAL

The Contractor shall furnish all labour, materials, tools and equipment required to install, connect, test and commission all electrical equipment specified herein, whether or not such equipment is furnished by him or by others.
For all equipment to be installed by the Contractor, the Contractor shall supply and install all erection materials such as foundation bolts, washers, nuts, etc. as required and without any additional costs.

The Contractor shall set out the works himself as per Specifications and Drawings and shall properly position the equipment on specified foundation/location. In general, the manufacturer's instructions for installation shall be followed. Any defect or faulty operation of equipment due to the Contractor not following the manufacturer's instructions shall be corrected and repaired by the Contractor at his own cost.

For any deviation from the working drawings or specification that are deemed necessary by the Contractor due to site conditions, he shall submit the details and obtain the Engineer approval before starting such works.

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13.0 FACTORY TESTS

All type and routine tests on Low Voltage D.G Set, Power Transformer, H.T Switchboards, LT Switchboards, Motor Control Centre, H.T Cables, LT Cables, and all other equipment shall be performed at the manufacturer's works in the presence of the Engineer or his Representative. Type tests may be waived off in case test certificates are submitted as certified by an Engineer approved standard laboratory of international repute; but merely producing the test type certificates will not relieve the manufacturer to carry out the required standard/routine tests.

The Contractor shall inform the Engineer about the date and time of test of each equipment at least two weeks in advance. This shall, however, be done after the Contractor has got the test procedures duly approved by the Engineer. The witnessing of test by the Engineer and the Employer shall not absolve the Contractor from his responsibility for the proper functioning of the equipment, and for furnishing the guarantees referred to in clause 9.0. All test results shall be supplied in quadruplicate. All expenses for carrying out the tests as incurred by the Engineer and the Employer to witness it shall be borne by the Contractor and deemed to have been included in the bid. Provision for at least two person's visit for Factory Acceptance Tests shall be made to include one representative each from the Employer and the Consultant/Engineer. The contractor shall undertake all formalities as may be required for the Engineer or his representative to enable him make the visit.

14.0 TESTING - GENERAL

14.1 Scope

Upon completion of the installation, the Contractor shall perform field tests on all equipment, materials and systems. All tests shall be conducted in the presence of the Engineer for the purpose of demonstrating equipment or system compliance with Specifications. The Contractor shall submit for Engineer's approval complete details of tests to be performed describing the procedure, test observations and expected results.

The Contractor shall furnish all tools, instruments, test equipment, materials, etc., and all qualified personnel required for the testing, setting and adjustment of all electrical equipment and material including putting the same into operation.

All tests shall be made with proper regard for the protection of the personnel and equipment and the Contractor shall be responsible for adequate protection of all personnel and equipment during such tests. The cost of any damages or rectification work due to any accident during the tests shall be the sole responsibility of Contractor.

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The Contractor shall record all test values of the tests made by him on all equipment. Four (4) copies of all test data and results certified by the Engineer shall be given to the Engineer for record purposes. These shall also include details of testing method, testing equipment, diagrams, etc.

The witnessing of any tests by the Engineer does not relieve the Contractor of his guarantees for materials, equipment and workmanship, or as any other obligations of Contract.

14.2 **Low Voltage D.G. Set**

Prior to the tests, the contractor shall submit manufacturer's recommended detailed description of the test procedures to be conducted for Engineer's approval.

The Contractor shall carry out full site load and no load tests in accordance with IEC, ISO or BS Specifications for site commissioning. The inspection and tests shall include but not be limited to:

Basic Tests:	Insulation Resistance Earth Continuity Earth Loop Impedance Polarity Phase Rotation Voltage and Frequency Starting System Protection Equipment
Battery:	Nominal Voltage Discharge Voltage Specific Gravity of Electrolyte Level of Electrolyte Charging System
Lubrication:	Check as required by manufacturer
Operational Check at Start-up	Oil Pressure Fuel Oil Leaks Operation of Safety Devices Operational Speed Automatic Control Instrument Check Exhaust Check Undue Vibration
Operational Check After one hour's run:	Oil Pressure Oil Leaks Cooling System Oil Temperature

Commissioning Test:	25% of full load	2 hrs.
	50% of full load	5 hrs.
	75% of full load	8 hrs.
	100% of full load	8 hrs.
	110% of full load	1 hr.

All commissioning and test results shall be recorded and compared with design data. A retest/commissioning shall take place if results are not satisfactory. All the tools, labour, POL, required for the testing and commissioning shall be provided by the Contractor at no extra cost. If required load is not available at site for testing the generators, the Contractor shall provide dummy load at site at no extra cost to the Employer. The correct functioning of the control equipment shall also be proved.

Battery Charger

Battery charger shall be static type and shall provide for both trickle and boost charging of the batteries when the engine is not in operation. The charger shall be of suitable capacity to fully recharge the completely discharged batteries within four hours at boost charge.

Control Panel

The Control Panel shall provide all the necessary control and monitoring devices of the Diesel Generating Sets. All the control and monitoring of the safety devices, alarms, protections, meters, lamps, etc. as mentioned in this Specifications and required as per good engineering practices for such an installation shall be provided in the Control Panel.

14.3 Transformer Tests

In addition to the insulation resistance test of the transformer, a polarity and phase rotation test shall also be made. Buchholz relay shall be tested for proper operation. Di-electric test shall be carried out on transformer oil prior to putting the same in operation.

14.4 HT / LT Switchboards

Each circuit breaker shall be operated electrically and mechanically. All interlocks and control circuits shall be checked for proper connections in accordance with the wiring diagrams given by the manufacturer.

The Contractor shall properly identify the phases of all switchgear and cables for connections to give proper phase sequence.

Trip circuits shall be checked for correct operation and rating of

equipment served. The correct size and function of fuses, disconnect switches, number of interlocks, indicating lights, alarms and remote control devices shall be in accordance with approved manufacturer drawings. Nameplates shall be checked for proper designation of equipment served. Protective relays shall be tested and set at site prior to commissioning of the equipment.

14.5 Insulation Resistance Test

Insulation resistance test shall be made on all electrical equipment by using a meggar of 500 volts for circuits upto 250 volts and 1000 volt for circuits between 250 and 500 volts. For testing of 11 kV circuits, upto 5 kV meggar shall be used; the exact voltage shall be as advised by the equipment manufacturer unless otherwise advised by the Engineer.

The insulation resistance values of cables, transformer, switchgears, etc., shall be as per BSS, IEEE, NEC, ICEA and Pakistan Electricity Rules.

Before making connections at the ends of each cable run or joint between cables, the insulation resistance test of each cable section shall be made. H.T. cables shall be subjected to high voltage test as per recommendations of standard to which the cable is manufactured. Each conductor of a multi-core cable shall be tested individually with each of the other conductor of the group and also with earth. If insulation resistance test readings are found to be less than the specified minimum in any conductor, the entire cable shall be replaced and tests repeated on new cable. If cable joint is provided, then each cable section shall be tested, and joint made only after the tests have been made satisfactorily. Finally the completed cable length including the joints shall be tested.
The transformer and switchgears shall be given an insulation resistance measurement test after installation, but before any wiring is connected. Insulation tests shall be made between open contacts of circuit breakers, switches and between each phase and earth.

If the insulation resistance of the circuit under test is less than the specified value, the cause of the low reading shall be determined and removed. Corrective measures shall include dry-out procedure by means of heaters, if equipment is found to contain moisture. Where corrective measures are carried out, the insulation resistance readings shall be taken after the correction has been made and repeated twice at 12 hours interval. The maximum range for each reading in the three successive tests shall not exceed 20% of the average value. After all tests have been made, the equipment shall be reconnected as required. Polarity test shall be made on single pole switching devices.

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14.6 **Earth Resistance Test**

The Contractor shall make Earth resistance tests on the Earthing system, separating and reconnecting each earth connection.

If it is indicated that soil treatment or other corrective measures are required to lower the ground resistance values, the Engineer will determine the extent of such corrective measures.

The electrical resistance of the ECC together with the resistance of the Earthing leads measured from the connection with earth electrode to any other position in the complete installation shall not exceed one ohm.

Earth resistance test shall be performed as per Electrical Inspector's requirements. Where more than one earth electrodes are installed, the earth resistance test of each electrode shall be measured by means of resistance bridge instrument.

The complete lightning protection system shall be tested for continuity and earth resistance. The combined earth resistance at any point in the lightning protection system shall not exceed 10 ohms.

14.7 **Completed Tests**

After any equipment has been tested, checked for operation, etc., and is accepted by the Engineer the Contractor shall be responsible for the proper protection of that equipment so that subsequent testing of other equipment do not cause any damage to the already tested equipment.

14.8 **Expenses**

All expenses, i.e., travelling, boarding and lodging for carrying out the tests and witnessing by the Engineer shall be borne by the Contractor and are deemed to have been included in the BOQ rates of the respective equipment(s) by the Contractor.

14.9 **Spare Parts**

Contractor shall provide spare parts as identified in relevant appendix. The cost of each spare parts shall be carried over to relevant BOQ item and no extra payment shall be admissible in this regard.

14.10 **Special Tools**

Contractor shall provide special tools as indicated in Appendix-IV and as may be deemed essential for assembly, adjustment, dismantling, installation and maintenance reasons.

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No separate payment shall be made for any special tools and cost shall be deemed to be included in the cost of the Contract.

15.0 APPENDICES TO BE FILLED IN BY THE BIDDER

The details regarding equipment manufacturers, deviations, etc., are to be furnished in the appendices attached with form of Bids, in accordance with the provisions of the clause "Requirements of Electrical Works" given in the instructions to Bidder, Volume - I.

16.0 PAYMENT

No separate payment shall be made for work involved within the scope of this section unless specifically stated in the Bill of Quantities or herein.

*** End of Section 8001 ***

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SECTION – 8150

LIGHT FIXTURES

1.0 SCOPE OF WORK

2.0 GENERAL

3.0 APPLICABLE STANDARDS/CODES

4.0 MATERIAL

5.0 INSTALLATIONS

6.0 MEASUREMENT AND PAYMENT

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1.0 SCOPE OF WORK

The work under this section consists of supplying, installing, testing and commissioning of all material and accessories of the complete Light fixtures as specified herein and/or shown on the Tender drawings and given in the Bill of Quantities.

The Contractor shall discuss the electrical layout with the Engineer and co-ordinate at Site with other services for exact locations and positions of the light fixtures.

The lighting fixtures with accessories shall also comply with the General Specifications for Electrical Works, Section-8001 and with other relevant provisions of the Tender Document.

2.0 GENERAL

The description of light fixtures is given in the bill of quantities, and stated on the drawings, and all relevant material is described in this Section. The determination of quality is based on certified photo-metric data covering the coefficient of utilisation, light distribution curves, construction material, shape, finish, operation, etc.

The Contractor shall submit at least two samples of each and every light fixture specified and obtain approval of the Engineer before purchasing. The quality and finishes of the local make light fixtures (if mentioned in BOQ) shall be same as that of standard manufacturer. The accessories such as ballast, LED drivers, lamps, ignitors, etc., for all type of light fixtures shall be of make as stated in list of approved manufacturers. Approved equivalent against those specified will be accepted if the specified one is/will not be available. For any substitution the Engineer's approval is necessary.

All fixtures shall be finished in standard colour schemes as mentioned in the manufacturer's catalogue for respective fixtures, unless specifically stated in the Specifications, Drawings or Bill of Quantities or directed by the Engineer.

3.0 APPLICABLE STANDARDS/CODES

The latest editions of the following standards/codes shall be applicable to the material specified within the scope of this section:

IEC 60598-2-1-		Particular requirement- Fixed general purpose luminaire
IEC 60598-2-2-		Electrical Insulation Class I
IEC 62471	-	Photo biological Safety of lamps and lamps system
IEC 62031	-	LED modules for general lighting – Safety specifications

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IESNA LM80	-	Testing report for LED Chips with TM21 extrapolation graph
IEC 61048 & 61049	-	Capacitors for use in TL, HP mercury and LP sodium vapour discharge lamp circuits.
IEC 60598 & BS EN 60598	-	Luminaires
BS 2560	-	Exit Signs
ISO 7010	-	Signs for the purposes of accident prevention, Fire protection, health hazard information and Emergency evacuation.

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4.0 MATERIAL

4.1 LED Essential/Waterproof Batten Light Fixture:

The Contractor shall furnish and install the complete LED Batten luminaires replacement for complete single conventional 1x18W TL-D/1x36W TL-D & double 2x36W TL-D fluorescent batten. The batten light fixtures shall be of proper rating as shown on the drawings. The LED batten light fixture shall be 1200mm long for 36/28watts and 600mm long for 14watts respectively as specified.

The luminaire shall be cool white, with colour rendering and light colour of 840 characteristics. The luminaire shall have such distribution to achieve general lighting application parameters. The luminaire shall use high efficiency diffuser to achieve at least 50% energy savings compared to conventional fluorescent and waterproof light fixture. The luminaire shall offer a composite system efficiency of at least 100 Lumen/Watt for Essential LED batten and at least 100 Lumen/Watt for Waterproof LED batten having an average lumen package of up to:

3800 lumens (±5%) in 36W replacement for 2x36W waterproof TL-D Batten
2700 lumens (±5%) in 28W replacement for 2x36W fluorescent TL-D Batten
1350 lumens (±5%) in 14W replacement for 1x36W fluorescent TL-D Batten

The LED luminaire shall be designed for lumen maintenance of L70 or 70% at the end of useful life at ambient temperature of 25 deg. C. The complete luminaire shall have a useful life of 40,000 burning hours. The luminaire shall be suitable for ambient temperature range of between -20 to +40 degrees Celsius. Third party IEC 60598 Test Report shall be

measured/corrected for Ta = 25 degrees Celsius. The luminaire including the driver will include a warranty of at least 3 years against manufacturing defects.

The housing of Essential LED Batten light fixture will include integrated heat sink and optical system. The housing will be made of galvanized sheet having white Powder coated & suitable for indoor & semi-indoor environment. The optical cover made up of Polycarbonate with UV Protected Shielding cover. The fixing mechanism will be through clip made of Stainless steel. Appropriate size bushed wire entry holes, fixing holes, and earth terminal shall be provided. The driver shall be integrated within the luminaire.

The housing of Waterproof LED Batten light fixture will be made of Polycarbonate & extrusion process & suitable for outdoor environment. The optical cover made up of Polycarbonate with UV Protected Shielding cover. The product shall be protected against harsh industry environments IP65 rating for dust & water protection. The luminaire shall have no harmful effect against water projected from any direction. The luminaire shall have impact protection classified as IK07 operating temperature. The driver shall be integrated with the luminaire in a separate gear compartment with similar Index protection.

The internal wiring of LED batten light fixtures shall be done with heat resistant wires at the manufacturer's factory. The internal wiring shall be clipped properly and heat resistant sleeves be provided on cables passing near driver. Connectors suitable for connecting 2.5 sq.mm cable conductors shall be provided for supply connections. An earth terminal for connection to 2.5-sq.mm cable conductor shall be provided.

The light fixtures shall be furnished with Perspex diffusing panels "040 opal acrylic" (minimum sheet thickness 3mm) etc. as specified on the drawings or in BOQ. The luminaire shall have provision of both surface, Suspended mounting with dimension compatible to conventional florescent fixture. Mounting Clips for installation must be available.

IP degree of Protection shall comply with the requirements laid down in Section 8001. Standard luminaries with manufacturer’s recommended modifications, such as additional gasket, etc., shall be provided to attain required protection level.

4.2 LED Smart Panel Light Fixture:

The Contractor shall furnish and install the complete LED Panel luminaires as replacement for complete double conventional 2x36W TL-D fluorescent light fixture. The Smart Panel shall be of proper rating as shown on the drawings. The LED Panel shall have dimensions of 297 x 1197 x 75mm/595 x 595 x 75mm for 36 watts respectively as specified.

The luminaire shall be cool white, with colour rendering and light colour of 840 characteristics. The LED shall have a colour consistency preferably within 5 SDCM (standard deviation of colour matching) as defined by McAdam. The colour temperature variation should be restricted as per ANSI C78.377A with CCT variation limiting within 500K for nominal CCT of 4000K / 6500K.

The luminaire shall offer a composite system efficiency of at least 110 Lumen/Watt and a lumen package of up to 3,800 lumens (±5%) in 36W replacement for 2x36W conventional TL-D fluorescent fixture. The luminaire shall use high efficiency diffuser and reflector to achieve at least 50% energy savings compared to conventional fluorescent light fixture.

The system should be designed for fully office lighting & possess higher uniformity to have a smooth white light of high colour consistency & high system efficiency. For the better UGR control one, the luminaire optics should fully comply with lighting norms with UGR value (Unified Glare Rating) < 25. The beam angle of the optic should be around 140º.

The LED luminaire shall be designed for lumen maintenance of L70 or 70% at the end of useful life at ambient temperature of 25 deg. C. The complete luminaire shall have a useful life of 50,000 burning hours. The luminaire shall be suitable for ambient temperature range of between -20 to +40 degrees Celsius. Third party IEC60598 Test Report shall be measured/corrected for Ta = 25 degrees Celsius. The luminaire including the driver will include a warranty of at least 3 years against manufacturing defects.

The housing will include integrated heat sink and optical system. The housing will be made of electrogalvanized cold rolled steel sheet, pre-treated, painted and stove enamelled in white colour & the fixture will be provided with a plastic cover that is aesthetical for the environment. The heat sink will design in such way to create better air-flow for better heat transfer. The light cover is made up of PMMA optics lens with PS diffuser & a suitable reflector for the best uniformity. Appropriate size bushed wire entry holes, fixing holes, and earth terminal shall be provided. The driver shall be integrated within the luminaire.

The internal wiring of LED batten light fixtures shall be done with heat resistant wires at the manufacturer's factory. The internal wiring shall be clipped properly and heat resistant sleeves be provided on cables passing near driver. Connectors suitable for connecting 2.5 sq.mm cable conductors shall be provided for supply connections. An earth terminal for connection to 2.5-sq.mm cable conductor shall be provided.

The luminaire shall have provision of recessed, surface or suspended mounting etc. as specified on the drawings or in BOQ with dimension

compatible to conventional florescent fixture. Mounting Clips for installation must be available. Shop drawings shall be submitted by contractor for approval of Engineer.

4.3 LED Down Light Fixtures

The Contractor shall furnish and install the surface mounted LED Downlight luminaires as replacement for single 1x18W or double conventional 2x18W PL-C incandescent/ compact fluorescent light fixture. The LED downlights shall be of proper rating as shown on the drawings. The LED Downlights shall have dimensions of 122/167/218mm dia. for 7/11.5/16 watts respectively as specified.

The luminaire shall be cool white, with colour rendering index greater than 80 and light colour of 840 characteristics. The Downlighter must be provided with a polycarbonate diffuser having high haze and light transmission for uniform light output. The beam angle must be in the ranges in between 95 to 100 degrees for better illumination.

The LED downlights shall have minimum system efficacy of at least 100 lm/W with 55% energy-saving as compared with conventional compact fluorescent lamp downlight fixtures and shall have a useful life of 50,000 burning hours for 70% lumen maintenance at the end of useful life at ambient temperature of 25 deg. C.

The downlighter shall have high reflectance white painted polycarbonate front element or High purity aluminium with high reflectance coated reflector along with tempered glass on the front cover. The housing will include integrated heat sink and optical system. The heat sink made with Die Cast Aluminum should be design in such way to create better air-flow for better heat transfer as furnished by the manufacturer or as specified in the drawings or BOQ. The fixing mechanism of recessed down light will be through spring fasteners.

Where surface mounted downlights are used, the housing will be made of Plastic and enclosed in white powder coated die-cast aluminium body for surface mounting installation. The body shall have fins as heat sink.

The types of fixtures with manufacturer’s catalogue reference are given on the fixture schedule and in bill of quantities. Equivalent fixture may be acceptable provided that the contractor submits for review all necessary data indicating photometric curves to show that the fixture proposed are of the same type, construction and quality.

4.4 Compact Fluorescent Light Fixtures

The compact fluorescent light fixtures shall be as stated on drawings and bill of quantities. The light fixture shall be finished in standard colours

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unless otherwise stated on drawings or directed by Engineer. All compact fluorescent light fixtures shall be of international standard and quality.

The lamps for compact fluorescent light fixtures shall be CFL type with normal or electronic control gear and shall be supplied and installed according to the wattage/type as indicated on drawings.

Weatherproof bulkhead incandescent/compact fluorescent light fixture shall comprise of plastic body and gasketted clear glass cover secured to the body by means of wing nuts/screws to give a weatherproof and watertight fit. The gasket shall be weather resistance type. The lamp holder shall be of bi-pin brass having porcelain outer ring or 2/4-pin base for compact fluorescent lamps with normal control gear as per requirements.

The glass shade of the light fixtures shall be opal white or clear as furnished by the manufacturer with the light fixture unless specified and free from any air bubbles or voids. The shade may be spherical, cylindrical, flattened bottom or any other shape as specified in the drawings or BOQ.

4.5 Exit Sign – Emergency Light Fixture

The exit sign emergency light fixture shall be maintained type with self contained, polycarbonate body, Gear Type and sealed nickel metal hydride batteries providing a backup of at least 3 hours if not mentioned otherwise elsewhere. The light fixture shall have steel body powder coated in perma white finish, complete with screen printed acrylic legend panel. 2 X High Power 1W LED lamp and give 20 m route space. Legend panel shall be bottom entry for case of installation near walls. The legend pictogram shall be green colour and as approved by the Engineer.

4.6 LED Flood Light Fixture

The Contractor shall furnish and install the complete Boundary Wall luminaires maintaining avg. 30 lux for existing outdoor mixed traffic area, fully IP 66 with corrosion resistant die cast aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection and all accessories/ components required for the proper operation of the system. The luminaries shall be fully flexible for future upgrades and easy replacements for maintenance purposes.

The luminaire shall have such distribution to achieve flood lighting application parameters. The luminaire shall offer a composite system efficiency of at least 100 Lumen/Watt and a lumen package of up to 13,000 for 120W+/-5W. The light fixture has three different optical beam angles Symmetric Wide Beam & Asymmetric Medium Beam & Narrow Beam optics according to application.

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The LED light fixture should be designed for lumen maintenance of L70 or 70% at the end of useful life at ambient temperature of 45 ºC and shall be capable to operate efficiently within the temperature limit of -40 ºC to 50 ºC. The complete light fixture should have useful life of 50,000 burning hours.

4.7 High Pressure Sodium Lamp

The high-pressure sodium SON-T plus lamp shall be of increased output tubular of rating 70 Watt and 400 watt as shown on the drawings. The base of the lamp shall be E40 with 6600 and 55,000 lumens output for 70 Watt and 400 Watt lamps respectively. The colour-rendering index Ra shall be 23. These lamps shall comply with EN60662.

4.8 Ballast for High Pressure Sodium Lamps

The ballast for high pressure Sodium lamps shall be polyester resin filled, totally encapsulated electromagnetic of copper / iron construction with leak proof body for use in combination with an external ignitor. The ballast shall fully comply with international Standards on Safety and performance, design compliance to IEC 60922/60923. The ballast shall be suitable for application in luminaries or poles under normal humid conditions. The ballast shall conform to the characteristics and wattage of the lamps. The wattage of lamp and ballast and a wiring diagram and other relevant data shall be printed on the body of the ballast. The power loss of the ballast shall not be more than 13.5-Watts for 70-Watts lamp and 28-Watts for 400-Watts lamp. The ballast shall be provided with insulated block of terminals for connecting up to 6 sq.mm cable with separate earth terminal.

4.9 Electronic Ignitors for High Pressure Sodium Lamps

The electronic ignitors for high-pressure sodium lamps shall be compact and light in weight with reliable and smooth starting behaviour. The ignitors shall be suitable for specified wattage of high-pressure sodium lamps and other requirements. The ignitors shall fully comply with IEC 60662 and EN 60926 regulations. The ignitors shall be provided with screw terminal / blocks and simple stud or screw mounting arrangement.

4.10 Capacitors for High Pressure Sodium Lamps

The capacitors for use in combination with high-pressure sodium lamp circuits shall be high-quality electrolytic capacitors for correction of power factor. The capacitors shall be of appropriate rating and type for the relevant lamp wattage. All capacitors shall be fitted with an internal discharge resistor, have a fuse fitted and be of self-healing type. Capacitor shall conform to IEC 61048/61049.

4.11 Flood Light Lanterns

The flood light lanterns shall have lamps of ratings specified in BOQ/ Drawings and shall be fully equipped with high grade reflector, corrosion proof housing with integral gear box, (Double insulation Class-II), compensated electrical control gear etc. complete with all internal wiring.

The flood light lanterns shall have non-corrosive, injection moulded, heat and UV-stabilized body, hammered aluminium reflector brightened and anodised, thermally – hardened 5 mm minimum glass, stainless steel snap-on hinged-clips, stainless steel protractor, hot dipped galvanized steel mounting brackets and stainless steel fixing accessories.

The housing shall be dust proof and jet proof to IP66, such that no internal cleaning shall be required.

4.12 LED Street Light Fixture

The road light fixture shall be an attractive modern appearance, high performance lantern suitable for 90W or 200W LED lamp as given in the BOQ/drawing.

Light fixture shall be provided with solid die cast aluminium housing, heat resistant silicon rubber gasket in optical LED compartment, DME type optic, tampered glass cover and shall be coated with powder of colour RAL 7040 ensuring no discoloration when exposed to UV light.

The light fixture shall be designed to receive power either from the battery or from the AC source. The light fixture shall have the following characteristics:

Voltage	=	220-240 VAC
Surge Protector	=	10 kV
Power Factor	>	0.9 (nominal power)

The light fixture shall have IP 66 protection to ensure long reliable performance and minimize maintenance requirement and an Impact resistance of IK 08 with insulation Class I. Use of chemical glue shall NOT be allowed to avoid probable breakdown of water-proof and dust-proof seal.

The light fixture should have a minimum color rendering index (Ra) of 70 + 5 and a color temperature of 4000K for maximum efficacy with an average output of at least 10,000 lumens for 90 Watt and 22,000 lumens for 200 Watt LED Fixture. The LED should have a color consistency within 5 SDCM (Standard Deviation of Color Matching). The color temperature variation of the LEDs should be restricted as per ANSI

C78.377A with CCT variation limiting within 500K for nominal CCT of 4000K.

The LED light fixture should be designed for lumen maintenance of L70 or 70% at the end of useful life at ambient temperature of 45 ºC and shall be capable to operate efficiently within the temperature limit of -40 ºC to 55 ºC. The complete light fixture should have useful life of 50,000 burning hours.

The light fixture shall be fully compatible with future LED upgrades when they become available. It shall have a modular design to upgrade / replace with new LED modules or LED drivers at site conveniently with minimum effort. All electronic components/drivers shall be mounted on a separate removable gear tray. Light fixture housing shall have a tool less access by opening the cover.

The proposed LED road lighting light fixture shall be provided with in-built surge protection system to protect the electronic driver and LED system. Minimum surge protection rating is 10kV.

The housing shell, under the circuit board, shall be specially designed to ensure perfect contact between the circuit board and the light fixture housing for efficient heat dissipation. Only Metal Core PCBs shall be used to maximize heat transfer process and to offer reinforced electrical insulation via di-electric layer. The Metal Core PCB should be mounted on the housing using a highly efficient thermal interface material.

The optical LED compartment shall have a thermally hardened glass cover and high quality silicon gasket. The Glass cover will be tightly secured with the housing. The light fixture should have flexible optical system to achieve lighting parameters for required class of roads. The light fixture should offer a composite system efficiency of at least 100 lumen/Watt.

Specially designed lens system with unique inner and outer profile for high efficiency LED shall be provided to ensure maximum spacing between the poles and cover higher road widths. Multi layer optics design to ensure adequate luminance and luminance uniformity in the unlikely event of individual LED failure. The light fixture should offer choice of narrow, medium and wide beam light distribution.

The lamp position shall be adjustable to at least three positions to facilitate the changing of photometric distributions.. The photometric data of the lantern shall be authenticated by an Internationally Accredited Lighting Organisation.

Luminance level calculation with average luminance of the road surface, overall uniformity of road luminance, threshold increment, longitudinal

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uniformity of road surface luminance and surround ratio achieved shall be submitted by the Contractor / manufacturer for verifying conformance to international lighting standards and approval of the Engineer.

4.13 LED Chips and Driver

The LED chip shall be from Cree / Nichia / Lumileds make or approved equivalent. The LED driver shall be designed to operate large array of high power LED's through current controlled output. The driver shall be suitable for operate up to 250VAC 50/60Hz mains supply. The LED driver shall have an efficiency of at least 90%. Fixed Output LED Driver (PSU) shall be integrated within each LED luminaire. The Driver compartment cavity and gear tray shall be designed with tool-less access for maintenance and replacement.

The light fixtures including the driver will include a warranty of at least 3 years against manufacturing defects. The cost of such provision will deemed to have been respective BOQ item of light fixture and no separate payment shall be admissible in this regard.

The LED driver shall fully conform to following specifications:-

1) BS-EN 61347-1 - General and safety requirements.
2) BS-EN 61347-2-13 - Particular requirements for DC or AC supplied electronic control gear for LED modules.
3) BS EN 55015: 2013 – Emission – Electrical lighting and similar equipment
4) BS EN 61547: 2009 – Immunity – Equipment for general lighting purpose
5) BS EN 61000-3-2: 2009 – Limits for harmonic currents emissions.
6) BS EN 61000-3-3: 2008 – Limits for voltage fluctuation and flicker.
7) BS EN 62493 – Assessment of lighting equipment related to human exposure to electromagnetic fields

5.0 INSTALLATION

5.1 General

The mounting heights of light fixtures are indicated on the drawings, and positions of fixtures are according to the mentioned scale.

The Contractor must ensure that the light fixtures are installed uniformly with respect to the dimensions of the area. Any modifications due to site conditions may be made with the approval of Engineer. All fixtures shall be carefully aligned before fixing in position.

The wiring between ceiling rose or terminal box and the fixture shall be carried out with 3-core 1.0 sq.mm and 1.5-sq.mm flexible copper

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conductor PVC/PVC cable respectively for circuits protected by 10 amps and 15/20 amps MCBs. The wiring inside light fixture body shall be done with heat resistant cables or PVC insulated cable in heat resistant sleeves as approved by the Engineer.

Glasses, shades, reflectors, diffusers, etc., must be in a clear condition after installation. All light fixtures shall be earthed by an earth wire connected to the earth terminal in the fixture.

5.2 Street Light / Flood Light Fixture

The proposed street light fixture / flood light fixture shall be installed on the light pole/mast as per manufacturer's installation instructions. The road light fixture shall be properly levelled and the lamp adjusted to the appropriate position and all screws, bolts checked for tightness, etc. The light fixture shall be connected to the supply and earth at the proper terminals in the fixture.

5.3 Flood Light Lanterns

The flood light lanterns shall be installed on truss/G.I. bracket as per details shown on the drawing. Manufacturer’s installation instructions shall be followed. The G.I. bracket shall be installed on column as shown on drawing. The exact location, rating and tilt/pan angles of light fixtures shall be finalized at site to suit the flood lighting requirements. Engineer’s decision will be binding and final.

5.4 LED Batten / Panel Light Fixture:

LED Batten or Panel light fixtures on the surface of ceiling shall be installed with the back of the body flush with the ceiling surface, and in a manner so as to facilitate wiring. Nylon plugs and galvanized steel bolts or screws shall be used for fixing the light fixture to the ceiling. For light fixtures installation on false ceiling the installation method/detail shall be coordinated with ceiling design and submitted for approval of Engineer. Care shall be taken to prevent the weight of the fixture from being transferred to the false ceiling.
Pendant light fixtures shall have two holes in the top of each casing for supporting to the ceiling by a 3/4" dia. galvanized pipe or any other standard method as approved by the Engineer. Wiring from ceiling rose to the fixture shall be done through the pipe. Proper arrangements such as long threads with check nuts, etc. for minor adjustment in the mounting heights of the fixtures shall also be provided.

5.5 LED Down Light Fixture

LED downlight fixtures shall be installed on the surface of ceiling or wall by means of nylon plugs and galvanized steel screws, such that their

back finish flush with the surface for exposed conduits and flush with outlet box for concealed conduit system. Wherever convenient, screws for fixing light fixtures shall be screwed into the holes of the outlet box. The lights on false ceiling shall be installed in a manner as described for LED Panel light fixture.

6.0 MEASUREMENT AND PAYMENT

6.1 General

The Contractor's bid amount against each Bill of Quantities item as given below shall include supply, installation, testing, commissioning and completion for all work specified herein and/or shown on the Bidding Drawings related to the item.

6.2 LED Batten / LED Smart Panel / LED Downlight / LED Exit Light / CFL Bulkhead / LED or Conventional Flood Light/ LED Street Light Fixture

The Contractor's bid amount against each Bill of Quantities item as given below shall include supply, installation, testing, commissioning and completion for all work specified herein and/or shown on the Bidding Drawings related to the item.

6.2.1 Measurement

Measurement shall be made for each type of light fixture including all accessories acceptably supplied and installed by the Contractor as complete unit.

6.2.2 Payment

Payment shall be made for the number of units measured as provided above at the contract unit price each and constitute full compensation for supplying, installing, connecting, testing and completion of LED Battens / LED Smart Panel / LED Downlight / LED Exit Sign / compact fluorescent Bulkhead including all accessories such as capacitors , LED drivers, LED Chips, LED optics, connecting cables & connectors, suspension rods and pendent arrangement, GI pipe bracket, ceiling supports, internal wiring, nuts, bolts, screws, etc., as required and complete in all respects.

6.3 High Pressure Sodium Flood Light/ LED Flood Light / LED Street Light Fixture

The Contractor's bid amount against each Bill of Quantities item as given below shall include supply, installation, testing,

commissioning and completion for all work specified herein and/or shown on the Bidding Drawings related to the item.

6.3.1 Measurement

Measurement shall be made for each type of light fixture including all accessories acceptably supplied and installed by the Contractor as complete unit.

6.3.2 Payment

Payment shall be made for the number of units measured as provided above at the contract unit price each and constitute full compensation for supplying, installing, connecting, testing and completion of High Pressure Sodium Flood Light / LED Flood Light Fixtures/ LED Street lights including all accessories such as ballasts, capacitors, igniters, LED drivers, nuts, bolts, screws, etc., including PVC pipe, foundation etc., as required and complete in all respects.

*** End of Section 8150***

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SECTION - 10000

SPLIT AIR-CONDITIONING UNITS

1. SCOPE

2. DX - SPLIT AIR-CONDITIONING UNITS

3. REFRIGERANT PIPING WORKS

4. INSTALLATION, PRESSURE TESTING, EVACUATION AND COMMISSIONING & TESTING

5. MEASUREMENT & PAYMENTS

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1. SCOPE

The work under this section of the Specifications consists of furnishing all plant, labour, equipment, appliances and materials and in performing all operations in any floor and roof and floor and at any height in connection with the supply and installation of ACs, complete in strict accordance with this section of the specifications and the applicable drawings and subject to the terms and conditions of the Contract. The work includes all material, tools and plants required at any floor and at any height required for the completion of the work as per drawings/specifications.

2. DX - SPLIT AIR-CONDITIONING UNITS

These shall be self-contained split reversible inverter type, factory assembled wired and tested units with air flow capacities and characteristics as shown on the drawings.

Units shall be of such overall dimensions, operating weights, configuration, so that these may be located where shown. All inter-connecting refrigerant piping with insulation, refrigerant charge for unit and piping and all safety controls shall be included. Units shall be with latest technology inverter based variable speed compressors, refrigerant cooled inverter boards, variable speed BLDC fan motor, quiet, space saving, efficient low profile, durable heat exchangers, self diagnostic control board and quiet variable speed blowers.

i) Air Cooled Condensing Units (CU-Units)

The condensing unit shall be of the vertical/horizontal discharge, air cooled type, suitable for outdoor installation and sized to deliver the required capacity matched to relevant DX-type indoor unit at specified ambient temperature. The condensing unit shall be of same manufacturer as the Indoor A.C. Unit.

The unit casing shall be constructed from galvanized sheet steel, zincphosphated and with a stoved enamel finish. All access panels and the unit casing shall be provided with thermal and acoustic insulation. All moving components such as compressors and condenser fan motors shall be anti-vibration mounted to minimize the transmission of vibration and noise. Special coating is required for each condensing unit to protect it against corrosion in highly aggressive corrosive coastal environment.

Condenser coils shall be made of seamless copper tubes mechanically expanded into aluminum fins and additionally protected with acrylic/epoxy coating alongwith special coating for corrosive environment.

Condenser fans shall be of direct drive with BLDC type variable speed fan motor, statically and dynamically balanced propeller type. Weatherproof fan motors suitable for outdoor use, permanently lubricated and provided with built-in thermal overload protection shall be used. Fans shall be mounted on rubber vibration dampers. All condensing units shall be weatherproof and capable of operating satisfactorily at high and low outdoor temperatures at full load.

Compressor, shall be of latest technology inverter based variable speed type, fully hermetic high-efficiency type, with high and low pressure safety switches, motor overload protection, crankcase heaters and oil pump. The compressor shall be mounted on resilient mounting for vibration isolation. The refrigerant circuit shall include adjustable thermostatic expansion valve, sight glass, liquid line dryer and other safety and controls devices for complete operation. The unit shall be of the air-cooled type with direct driven propeller fan, safety guards and heavy duty motor. Casing shall be weather proof, of steel construction finished with corrosion resistant paint, and shall be suitable for outdoor installation. The unit coil shall be constructed of seamless copper tubes with mechanically bonded aluminum fins. Inverter board shall be cooled by refrigerant circuit.

Internal overload protection located in the motor windings shall be provided. Motors shall be with IP-55 protection, Class-F insulation, SF: 1.15 and rated for 50ºC outdoor temperature. For further details, refer to the specifications as given under Section-7.

The units shall be complete with refrigerant piping consisting of insulated copper pipes and all necessary valves and filter driers from the unit to the air cooler. Suction and discharge pipes shall be equipped with pipe vibration dampers. Condensing units shall be factory pressure tested, evacuated and dehydrated. Isolation valves and indoor and outdoor units on suction and discharge lines and filter driers shall be factory provided.

The units shall be charged with environment friendly refrigerant having ozone depletion factor of 0.00 and installed on steel brackets of adequate strength fixed to the walls with expansion bolts.

Compressor refrigerant holding capacity and amount of refrigerant shall be based on actual piping routes and selection shall be made accordingly.

ii) Indoor Unit (AC-Units).

The DX-type Indoor units shall be elegant, and of the type and capacitates as mentioned in BOQ and project plans. Fresh-air connection shall be provided on side or rear of the units, as specified or approved by the Engineer. All component parts shall be selected, manufactured and assembled by the same manufacturer as for outdoor Condensing unit.

Each unit shall be constructed so as to prevent drumming, distortion and vibration and shall enable ease of handling and replacement of sections.

The units shall include the following sections:

- Washable filters conforming to ASHRAE Standard 52 latest edition
- DX-type cooling coil
- Supply air fan and motor (variable speed type)
- Thermostat microprocessor type with digital display and set point adjustment
- Automatic air swing mechanism
- Supply air plenum with adjustable grille
- Condensate drain pump (for units other than wall mounted type)
- Fresh-air intake duct (as specified in project plans)

The casing frame shall comprise of galvanized sheet steel, zincphosphated, with a stoved enamel finish and shall be provided with decorative cover with supply and return air grilles. The decorative cover and grille shall be of ABS thermoplastic polymer with smooth finish in approved colour.

Fan shall be statically and dynamically balanced centrifugal type with backwardly included or airfoil blades to suit the pressure and operating characteristics specified.

Fan housings shall be constructed from galvanized steel sheet. The casing shall be constructed to a truly voltute form.

Shafts shall be cold finished, turned, and polished steel. Bearings shall be self aligning, permanently lubricated ball bearings.

All parts of fans and motors liable to deterioration shall be protected by paint or grease before delivery to site.

Filters with dust arrestance of 85% as per ASHRAE standards shall be provided. The filter

media shall be washable, cleanable, reusable, chemical and moisture resistant, non-perishable, and flame resistant.

Cooling coils shall be manufactured from solid drawn seamless copper tube staggered in the direction of airflow. Tube return bends shall be copper and brazed to tube ends.

Fins shall be of continuous aluminum protected with acrylic / epoxy coating having extended collars for spacing and bonding mechanically to the tube.

Coils shall be air pressure tested to 20.6 bar while immersing the coil in a tank of water after completion.

Tubes shall be expanded onto the fin collar by hydraulic pressure only.

No part of the coil tube ends or headers shall be external to the section. Coils shall be suitably sealed with grommets where connections pass through the unit casing.

The air-cooler shall incorporate a galvanized drain pan with integral insulation. The pan shall be fitted with galvanized drain socket connections for attachment to drain points. A manometric trap should be supplied and installed by the installing contractor.

The coil shall be easily removable from the unit for maintenance and cleaning purposes.

The coil shall include a thermostatically controlled expansion valve. Shut-off valves at supply and return connection in indoor units shall be provided.

Micro-processor based thermostat with fan speed selector shall be supplied as part of the units.

3. REFRIGERANT PIPING WORK

All copper pipe work shall be insulated with closed cell foam class 0 type insulation, of minimum thickness as scheduled elsewhere in this specification but not less than 13 mm (½ inch). Joints and headers must be insulated with the pre formed insulation supplied with these fittings. Insulation exposed to atmospheric conditions shall be externally protected with jacketing of 10 oz Canvas Cloth complete with antifungal paint. All insulation joints shall be made using adhesive and care should be taken that the every part of insulation is sealed to maintain a vapor barrier. The piping exposed to atmosphere and installed in shafts as well as indoor shall be provided within removable heavy gauge G.I perforated and open-able piping / cable tray with special anti-corrosion coatings (minimum two coats), if installed on roof shall be installed minimum 6 inch above finish floor level.

The pipe work must be supported through its entire length according to good refrigeration practice. However the brackets must not be positioned directly on the joints or headers. On horizontal pipe work the bracketing should be over the insulation to allow pipe movement due to contraction and expansions. The vertical pipe work shall be bracketed at no more than 2000-2500 mm. The horizontal pipe work shall be bracketed at no more than 1500 mm.

The pipe work layout and the pipe sizing and layout shall must be approved according to the manufacturer standard, for minimum length and spacing of joint as well as the minimum thickness and type of pipe standard as mentioned above.

All installed pipe work lengths are to be accurately measured and recorded on the commissioning form. This information is required for accurate calculation of the additional refrigerant charge for the system. The weight of the additional refrigerant must also be recorded for future reference on laser printed Stainless steel sheet.

4. INSTALLATION, PRESSURE TESTING, EVACUATION AND COMMISSIONING & TESTING

All supply of equipment, related pipe/insulation work and installation shall be carried out by the manufacturers authorized specialist contractor/supplier.

After Installation of pipe work, and prior to sealing of insulation joints, pipe work should be pressure tested to 600 psi or as per manufacture of AC units held for 24 hours and checked for leaks, vacuumed/dehydrated to –752 mm Hg and held at that setting for 1 to 4 hours depending on the pipe length. Supplier to submit detailed information for installation and commissioning procedures for approval after completion of installation.

Refrigerant isolation/shut-off valve on each indoor and outdoor unit shall be considered to be supplied with the units for emergency usage, incase leakage is detected.

A representative from manufacture or any other nominated factory trained engineer shall carry out the final refrigerant charging and the commissioning of the system; a copy must be submitted to Consultant/Engineer in line with manufacturer required parameter/figures to qualify for warranty.

All installation, testing and commissioning shall be done in strict accordance with the manufacturers recommendations. If required by the Engineer factory engineer shall visit the site and issue the certificate of all compliance(s) shall be in accordance with their recommendations.

5. MEASUREMENT AND PAYMENT

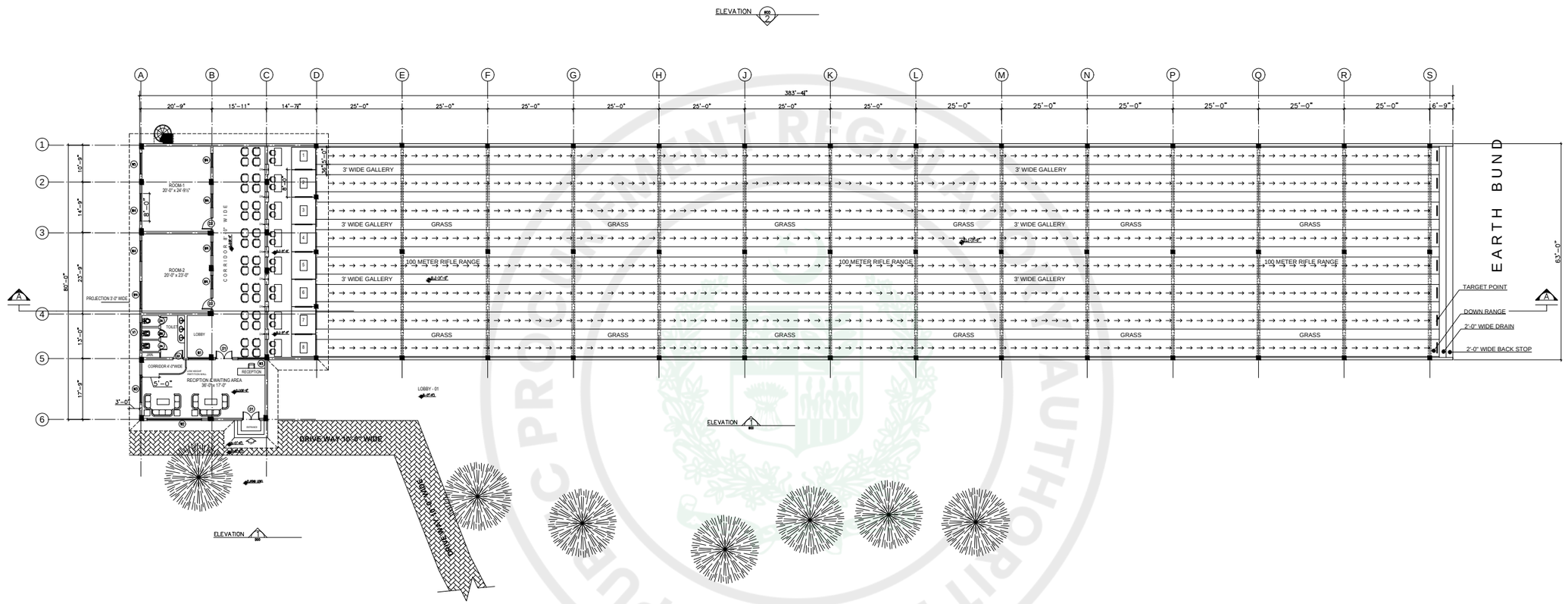
Measurement

Measurement for payment of above works shall be made as per the respective BOQ item of works. It shall include all relevant necessary works as specified above and therefore the Contractor's quoted cost shall include cost of providing and installing the ACs including its all allied works & accessories, manuals, tools, spare parts, etc., as shown on the Drawings, as specified herein or as directed by the Engineer.

Payment

Payment will be made as per Units defined in respective BOQ.

No payment will be made for the works involved within the scope of this section of the specifications unless otherwise specifically stated in the Bills of Quantities or herein. The cost thereof shall be deemed to have been included in the quoted unit rate of relevant items of the Bills of Quantities.



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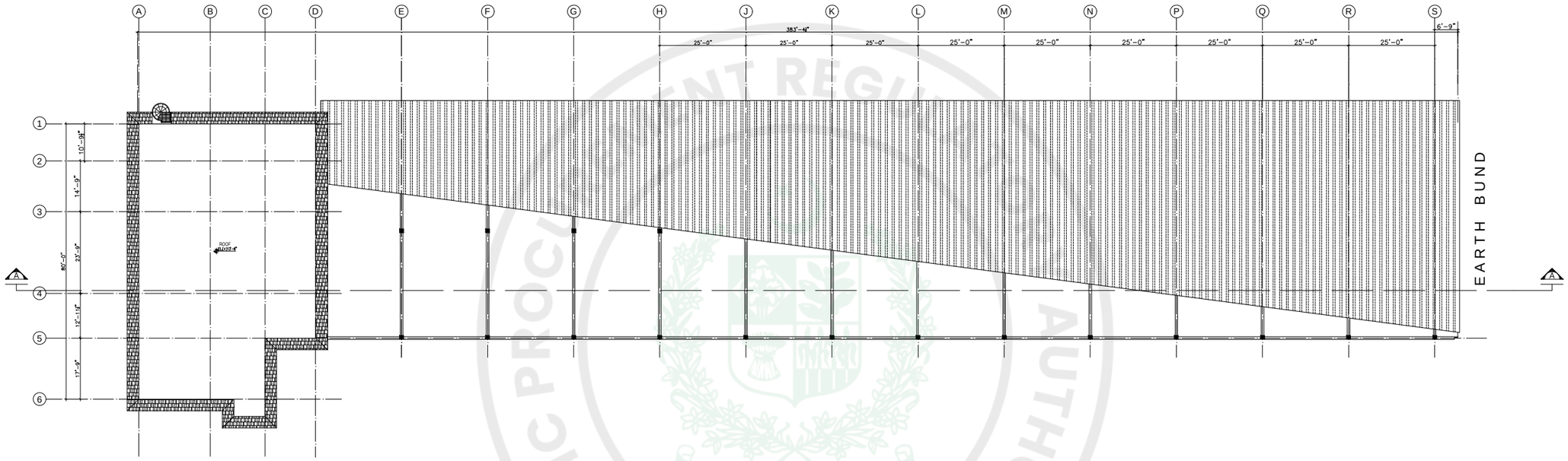
25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

GROUND FLOOR PLAN

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

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25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

TOP ROOF PLAN

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

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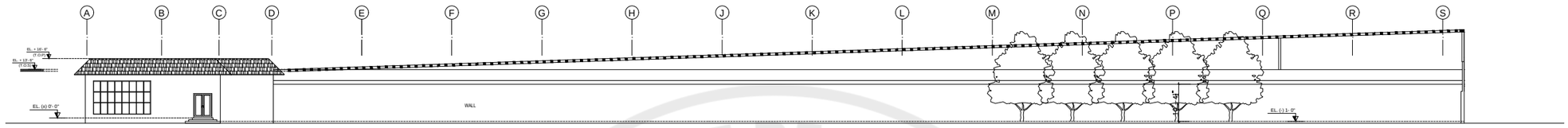
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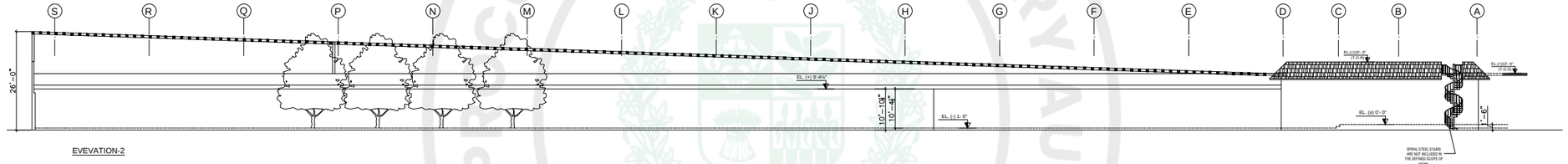
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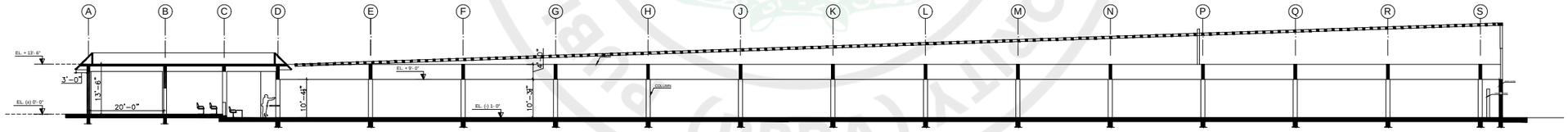
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EVEVATION-1



EVEVATION-2



SECTION AT A-A

GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

ELEVATION-1,2 & SECTION A-A

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REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

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A. GENERAL

1- NOTES GIVEN ON THIS DRAWING ARE APPLICABLE TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED. NOTES WRITTEN ON ANY OTHER DRAWING SHALL BE APPLICABLE TO THAT PARTICULAR DRAWING ONLY UNLESS OTHERWISE CROSS REFERRED.

2- SYSTEM OF UNITS IS FPS.

3- ALL LEVELS MARKED ON THE DRAWINGS ARE LEVELS OF STRUCTURAL ELEMENTS. FINISH LEVELS SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS.

4- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND STABILITY OF THE STRUCTURE AND ALL TEMPORARY WORKS DURING CONSTRUCTION.

5- THE CONTRACTOR SHALL INFORM THE ENGINEER ABOUT ANTICIPATED CONSTRUCTION LOADS IN THE STRUCTURE AND OBTAIN ENGINEER'S APPROVAL THEREOF BEFORE COMMENCING THE WORK.

6- THE CONTRACTOR SHALL CO-ORDINATE ALL DRAWINGS OF ALL DISCIPLINES FOR ALL ITEMS INCLUDING BUT NOT LIMITED TO SIZES AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCTS, PIPES AND PIPE SLEEVES, ELECTRICAL CONDUITS AND OTHER ITEMS TO BE EMBEDDED IN CONCRETE OR OTHERWISE INCORPORATED IN STRUCTURAL WORK AND SHALL BRING TO THE NOTICE OF THE ENGINEER DISCREPANCIES, IF ANY, FOR HIS INSTRUCTIONS, PRIOR TO THE START OF WORK.

7- THE CONTRACTOR SHALL VERIFY LAYOUT, CONFIGURATION, ALL DIMENSIONS AND LEVELS PERTAINING TO EXISTING WORKS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ADOPT ADEQUATE AND APPROPRIATE MEASURES SO AS NOT TO DAMAGE THE EXISTING WORKS.

8. THE CONTRACTOR SHALL EXERCISE UTMOST CARE AND PRECAUTION DURING THE WORKS, AGAINST ANY MISHAPS OR ACCIDENTS, FOR WHICH THE CONTRACTOR SHALL BE WHOLLY AND SOLELY RESPONSIBLE. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ANY ACCIDENTS AND ANY LOSSES THEREFROM AND SHALL REPAIR AND RECTIFY THEM AT HIS OWN COST AND TIME.

9. THE CONTRACTOR SHALL COORDINATE SCHEDULE OF CONSTRUCTION WITH SUPPLY AND INSTALLATION OF EQUIPMENT.

10. PROVISIONS SHALL BE MADE FOR INSTALLATION OF EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS.

11. ANY DEPARTURES/DEVIATIONS DESIRED FROM THE DESIGN OR SPECIFICATIONS, OR SOLUTIONS TO ANY PROBLEMS ENCOUNTERED, SHALL BE GOT APPROVED FROM THE ENGINEER PRIOR TO IMPLEMENTATION. UNAPPROVED DEPARTURES/DEVIATIONS MAY LEAD TO REJECTION/ REPLACEMENT OF THE ENTIRE WORK AT THE CONTRACTOR'S COST.

12- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO SPECIFICATIONS OF THE CONTRACT. IN ABSENCE OF ANY EXPRESS OR IMPLIED SPECIFICATION IN THE CONTRACT, ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO RELEVANT AMERICAN STANDARDS AND SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

13- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AND BAR BENDING SCHEDULES FOR ENGINEER'S APPROVAL AND OBTAIN HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF SHOP DRAWINGS AND BAR BENDING SCHEDULES. THE ENGINEER'S APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY.

B. FOUNDATIONS AND EARTHWORK

1. THE CONTRACTOR SHALL STUDY THE AVAILABLE GEOTECHNICAL INVESTIGATION REPORT BEFORE COMMENCING THE WORK.
2. THE FOUNDATION DESIGN IS BASED ON ASSUMED BEARING CAPACITY OF 1.0 TSF, THE DESIGN OF FOUNDATIONS SHALL BE REVISED BASED ON GEOTECHNICAL INVESTIGATION REPORT.
3. TERMITE CONTROL TREATMENT SHALL BE CARRIED OUT AS PER SPECIFICATIONS.
4. THE TYPE AND COMPACTION OF SOIL BELOW GRADE SLAB SHALL BE AS PER JOB SPECIFICATIONS.
5. NO FOOTING SHALL BE PLACED ON FILL. HOWEVER, AREAS WHERE FILLING BELOW THE FOOTINGS BECOMES INEVITABLE OR, OVER-EXCAVATION, IF ANY, SHALL BE FILLED WITH CONCRETE CLASS 'E' WITH PRIOR APPROVAL OF THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING SYSTEM IF AND WHERE SO REQUIRED DURING CONSTRUCTION.
7. ALL STRUCTURAL CONCRETE SURFACES AGAINST WHICH EARTH IS TO BE FILLED SHALL BE COATED WITH TWO COATS OF SPECIAL INDUSTRIAL BITUMEN (10/20 GRADE) APPLIED HOT AT THE RATE OF 1.0 KG/SQM PER COAT. (EXCEPT FOR CONCRETE CLASS 'D' AND 'E').
8. BACKFILLING AND COMPACTION SHALL BE CARRIED OUT EQUALLY ON BOTH SIDES OF PLINTH BEAMS TO AVOID IMBALANCE OF LATERAL EARTH PRESSURE.
9. THE CONTRACTOR SHALL SUPPLY AND ERECT ADEQUATE SHORING AND SUPPORT THE SIDES OF ALL EXCAVATIONS WHERE REQUIRED TO SAFEGUARD WORKMEN AND PROTECT ANY ADJACENT STRUCTURES.
10. EXISTING UNDERGROUND SERVICES, REQUIRED TO BE LEFT IN POSITION, SHALL BE CAREFULLY PROTECTED DURING EXCAVATION AND BACKFILLING OPERATIONS.
11. EXCAVATIONS ADJACENT TO EXISTING STRUCTURES AND/OR UNDERGROUND SERVICES SHALL BE MADE BY HAND.

C. REINFORCED CONCRETE

1- ALL CONCRETE SHALL BE TESTED IN ACCORDANCE WITH ASTM STANDARDS C31, C39, C172 & SPECIFICATIONS AND THE MINIMUM CYLINDER CRUSHING STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS. TESTING OF CLASS D & E CONCRETE SHALL BE PERFORMED IF SO DIRECTED BY THE ENGINEER.

CLASS	MIN. CYLINDER CRUSHING STRENGTH AT 28 DAYS (psi).
A	4,000
B	3,000
C	2,400
D	1,200
E	800

C. REINFORCED CONCRETE (CONTINUED)

2. CLASS OF CONCRETE FOR DIFFERENT COMPONENTS OF THE STRUCTURE SHALL BE AS FOLLOWS UNLESS NOTED OTHER WISE:

COMPONENT	CONCRETE CLASS
FOUNDATIONS & RETAINING WALLS	CLASS 'B'
COLUMNS	CLASS 'B'
SLABS & BEAMS	CLASS 'B'
PCC STEPS	CLASS 'D'
LEAN CONCRETE	CLASS 'E'

3. ORDINARY PORTLAND CEMENT SHALL BE USED FOR ALL CONCRETE WORKS.
4. AN INTEGRAL WATER PROOFING AGENT SHALL BE USED IN CONCRETE THAT IS CONSTANTLY OR INTERMITTENTLY IN CONTACT WITH WATER AS PER MANUFACTURER'S RECOMMENDATIONS (GENCON GENPRUF RMC OR PENETRON ADMIX OR EQUIVALENT).
5. WATER CEMENT RATIO FOR WATERTIGHT STRUCTURAL CONCRETE SHALL NOT EXCEED 0.45 AND 0.5 FOR ALL OTHER STRUCTURAL CONCRETE.
6. CONCRETE CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

STRUCTURAL MEMBER / ELEMENT	MINIMUM COVER (INCHES)
a) FOUNDATIONS (ALL TYPES)	2"
b) COLUMNS & BEAMS	1½"
c) RCC RETAINING WALLS	1½"
d) SLABS	¾"
e) RCC SHELLS AND DOMES	½"

8. ALL REINFORCING STEEL EXCEPT 3/8"ø BARS SHALL BE DEFORMED, HOT ROLLED BILLET STEEL BARS CONFORMING TO ASTM A-615 GRADE-60 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THAN 60,000 psi NOR MORE THAN 78,000 psi, AND RATIO OF ULTIMATE STRENGTH TO YIELD STRENGTH SHALL NOT BE LESS THAN 1.25.
9. 3/8"ø BARS SHALL BE MILD STEEL DEFORMED BARS CONFORMING TO ASTM A-615 GRADE-40 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THAN 40,000 psi NOR MORE THAN 58,000 psi, AND RATIO OF ULTIMATE STRENGTH TO YIELD STRENGTH SHALL NOT BE LESS THAN 1.25.
10. IN THE STRUCTURAL DRAWINGS, GRADE-60 STEEL BARS ARE REPRESENTED USING PREFIX SYMBOL "#" AND GRADE-40 STEEL BARS ARE REPRESENTED USING PREFIX SYMBOL "ø". WHEREAS, THE NUMBER INDICATES THE BAR DIAMETER/SIZE, AS UNDER:

BAR NUMBER	BAR DIAMETER (INCHES)
3	.⅜"
4	.½"
5	.⅝"
6	.¾"
8	.1"
10	.1¼"

11. ALL DETAILING SHALL BE DONE AS PER ACI STANDARDS ACI-315, ACI-318 & ACI-350R.
12. ALL REINFORCING STEEL SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE PLACING OF CONCRETE BY MEANS OF WIRES AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.

D. CONCRETE CONSTRUCTION

1. THE CONTRACTOR SHALL SUBMIT CONCRETE POURING SCHEDULE FOR ENGINEER'S APPROVAL. NO CONCRETE SHALL BE POURED UNTIL ITS FORMWORK AND REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.
2. DURING CONSTRUCTION, STACKING OF CONSTRUCTION MATERIALS, BLOCKS, etc. SHOULD BE AVOIDED ON SLAB PANELS.
3. BEFORE CASTING OF ANY STRUCTURAL MEMBER, THE CONTRACTOR SHALL ENSURE THAT ALL EMBEDDED ITEMS FOR ELECTRICAL, MECHANICAL, HVAC, PLUMBING, STRUCTURAL STEEL AND OTHER WORKS, AND DOWELS FOR STRUCTURAL MEMBERS AND/OR MASONARY ARE PROPERLY LOCATED IN PLACE.

E. CONSTRUCTION JOINTS

1. JOINTS, NOT SHOWN ON THE DRAWING, SHALL BE SO MADE AND LOCATED AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL NEED PRIOR APPROVAL OF THE ENGINEER. THEY SHALL BE LOCATED NEAR THE MIDDLE OF THE SPANS OF SLAB & BEAMS. JOINTS IN WALLS & COLUMNS SHALL BE AT THE UNDER-SIDE OF FLOORS, SLABS OR BEAMS AND AT THE TOP OF FOOTINGS OR FLOOR SLABS.
2. JOINTS SHALL BE PERPENDICULAR TO MAIN REINFORCEMENT. ALL REINFORCING STEEL SHALL BE CONTINUED ACROSS THE JOINTS.
3. JOINTS IN BASE SLAB & WALLS AND ROOF SLAB, IN ADDITION TO THOSE SHOWN ON THE DRAWINGS SHALL BE BORNE BY THE CONTRACTOR. BEAMS & BRACKETS SHALL BE PLACED AT THE SAME TIME AS SLABS.

F. ELECTRICAL CONDUITS

1. CONDUITS, FOR ELECTRICAL WORKS, SHALL BE PLACED WITHIN THE REINFORCED CONCRETE. THEY SHALL BE PLACED WITHIN THE MIDDLE THIRD OF THE SECTION IN BEAMS & SLABS AND WITHIN THE MIDDLE HALF OF THE THICKNESS. SPACING BETWEEN PARALLEL CONDUITS SHALL NOT BE LESS THAN 150 MM.

G. PROPS FORM WORK & CURING

1. SHORE & BRACE ALL PARTS OF THE BUILDING DURING CONSTRUCTION, TO THE EXTENT NECESSARY TO ENSURE COMPLETE SAFETY, STRENGTH & SERVICEABILITY OF ALL STRUCTURAL ELEMENTS UNDER ALL CONDITIONS OF LOADS WHICH MAY OCCUR DURING CONSTRUCTION. SUCH SHORING & BRACING IS THE CONTRACTOR'S SOLE RESPONSIBILITY AND IS NOT SHOWN ON STRUCTURAL DRAWINGS OR SPECIFIED IN THE PROJECT.
2. SEQUENCE OF REMOVAL OF FORMWORK SHALL BE APPROVED BY THE ENGINEER.
3. AT LEAST ONE LOWER FLOOR SHALL REMAIN PROPPED UNTILL THE UPPER FLOOR IS CAST AND CURED.

H. BRICK MASONRY WORKS

1. ALL BRICK WORK SHALL CONFORM TO SPECIFICATIONS GIVEN IN THE CONTRACT DOCUMENT.
2. ALL BRICKS SHALL BE SOUND, HARD, WELL BURNT AND OF UNIFORM SIZE, COLOUR AND TEXTURE. DIMENSIONAL VARIATION IN SIZES SHALL NOT EXCEED 1/8".
3. EACH FINISHED BRICK SHALL BE 9"x4½"x3" IN SIZE AND SHALL WEIGH BETWEEN 7 TO 9 POUNDS. THE DEPTH OF FROG SHALL BE 1/4" ON THE FACE.
4. TESTING OF COMPRESSIVE STRENGH OF MASONRY PRISMS SHALL BE DONE, IF SO DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH ASTM E447 STANDARD.
5. THE AVERAGE COMPRESSIVE STRENGTH OF FIVE REPRESENTATIVE BRICKS SHALL NOT LESS THAN 2000 psi. AND SHALL BE NOT LESS THAN 1700 psi. FOR ANY INDIVIDUAL BRICK.
6. BRICKS SHALL BE LAID "FROG" UPWARD WITH MORTAR JOINTS AND IN ENGLISH/ FLEMISH BOND AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE ENGINEER. BOTH BED/VERTICAL JOINTS SHALL BE 3/8" THICK COMLETELY FILLED WITH CEMENT MORTAR.
7. ALL BRICK WORK SHALL BE ERECTED PLUMB AND TRUE TO LINE AND LEVEL. THE MAXIMUM VARIATION IN ANY STOREY HEIGHT OR ANY LENGTH OF WALL SHALL BE 1/8" IN 10'-0".
8. MORTAR USED IN MASONRY CONSTRUCTION SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGHT OF NOT LESS 1800 psi AND SHALL CONFORM TO ASTM C270 STANDARDS. COMPRESSIVE STRENGHT OF MASONRY AT 28 DAYS SHALL NOT BE LESS THAN 1150 psi.
9. 9" AND 4½"-THICK BRICK MASONRY IN SUPER STRUCTURE SHALL BE LAID IN 1:4 CEMENT SAND MORTAR.
10. BEARING OF LINTELS SHALL BE 9" MINIMUM AT EACH SUPPORT.
11. ALL DESIGN, DETAILING, MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH RELEVANT ACI, ASTM, AND UBC CODES AND STANDARDS.

J. STRUCTURAL STEEL.

1. ALL FABRICATION, PAINTING, ERECTION AND QUALITY CONTROL IS TO BE DONE IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-36 OR EQUIVALENT.
3. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF AMERICAN WELDING SOCIETY, AWS, SPECIFICATIONS USING ELECTRODES E70XX
4. ALL BOLTS SHALL CONFORM TO ASTM A307 OR A325.
5. SURFACE PREPARATION OF ALL STRUCTURAL STEEL FOR PAINTING SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF "STEEL STRUCTURES PAINTING COUNCIL " SPECIFICATIONS SSPC-SP6 FOR COMMERCIAL BLAST CLEANING.
6. ALL STEEL SHALL BE SHOP PAINTED WITH ONE COAT OF POLYURETHANE PRIMER AND TWO COATS OF POLYURETHANE ENAMEL OF APPROVED COLOR. TWO FINAL COATS OF POLYURETHANE ENAMEL SHALL BE APPLIED AFTER ERECTION. ALL WORK SHALL BE CARRIED OUT AS PER MANUFACTURER'S RECOMMENDATIONS/SPECIFICATIONS. STEEL SURFACE IN CONTACT WITH CONCRETE SHALL NOT BE PAINTED.

K. ABBREVIATIONS & SYMBOLS

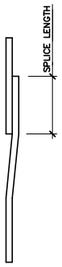
@	AT THE RATE OF
B	BOTTOM
BW	BOTHWAYS
c/c	CENTRE TO CENTRE
CL	CLEAR
D,d	DEPTH, THICKNESS
EF	EACH FACE
EJ	EXPANSION JOINT
EL.	STRUCTURAL ELEVATION
EQ.	EQUAL
FF	FAR FACE
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
GS	SLAB ON GRADE
H	HORIZONTAL
NF	NEAR FACE
NSL	EXISTING/NATURAL SURFACE LEVEL
NSP	NOT SHOWN ON PLAN
NTS	NOT TO SCALE
SOP	SURVEY OF PAKISTAN
ST	STIRUPPS
T	TOP
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VERTICAL
≥	GREATER THAN OR EQUAL TO
≤	LESS THAN OR EQUAL TO
#	DIAMETER IN INCHES UNO
⊕	LEVEL ON PLAN
℄	CENTRE LINE
L	ANGLE
C	CHANNEL

SPLICE LENGHTH (LS) *

fc' = 3000 PSI		
BAR SIZES.	(LS1) TOP BARS	(LS2) OTHER BARS
#3 TO #6	57db	45db
#7 TO #18	72db	55db

fc' = 4000 PSI		
BAR SIZES.	(LS1) TOP BARS	(LS2) OTHER BARS
#3 TO #6	50db	48db
#7 TO #18	62db	48db

* ALL LAP SPLICE SHALL BE STAGGERED BY AT LEAST 50 %



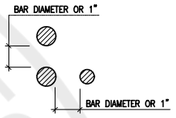
COLUMN SPLICE (TYP)

DEVELOPMENT LENGHT (LD)

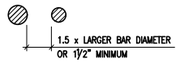
LD = LS



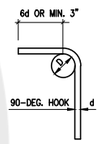
BEAM SPLICE (TYP)

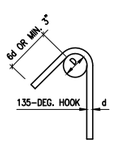


BAR SPACING IN BEAM



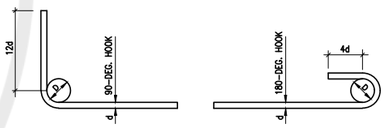
VERTICAL BAR SPACING





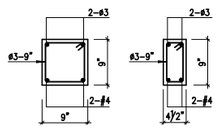
BAR DIA	D
ø3	1½"
ø4	2"
ø5	2½"

STIRRUPS AND TIE HOOKS



BAR DIA	D
ø3	1/2"
ø4	3"
ø5	4"
ø6	4"
ø8	6"
ø9	9"
ø11	11"

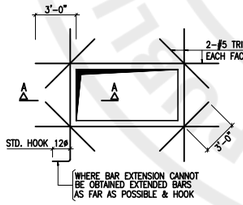
STANDARD BAR HOOKS

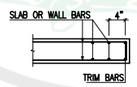


TYPICAL DETAIL OF LINTELS
(UP TO 5'-0" CLEAR SPAN)

TYP. SECTIONAL PLAN OF CAVITY WALL

DETAIL OF CAVITY WALL TIES
AT EVERY 6TH COURSE

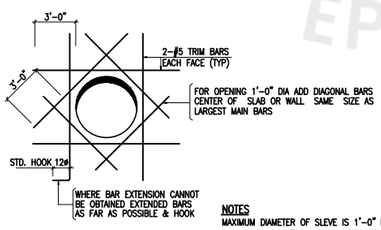




SECTION A-A

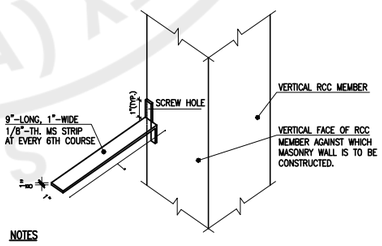
NOTES
- FOR OPENING WITH MAXIMUM DIMENSION OVER 5'-0" REFER TO OTHER DETAILS.
- USE THIS DETAILS IF NOT SHOWN IN DESIGN DRAWINGS

REINFORCEMENT DETAIL AT OPENING IN SLAB & WALLS (TYP)



NOTES
MAXIMUM DIAMETER OF SLEEVE IS 1'-0" FOR TRIM BARS BARS AROUND LARGE SLEEVE REFER TO OTHER DETAILS

REINFORCEMENT AROUND SLEEVE IN SLAB & WALLS (TYP)



NOTES
- LOCATION OF ANCHORAGE AS PER SITE ENGINEER'S APPROVAL.
- SCREW SHALL BE 1½" IN LENGTH (MINIMUM) OR AS INSTRUCTED BY SITE ENGINEER.

TYPICAL ANCHORAGE DETAIL OF
BRICK MASONRY WITH R.C.C. MEMBERS

TENDER DRAWINGS
NOT TO BE USED FOR CONSTRUCTION

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

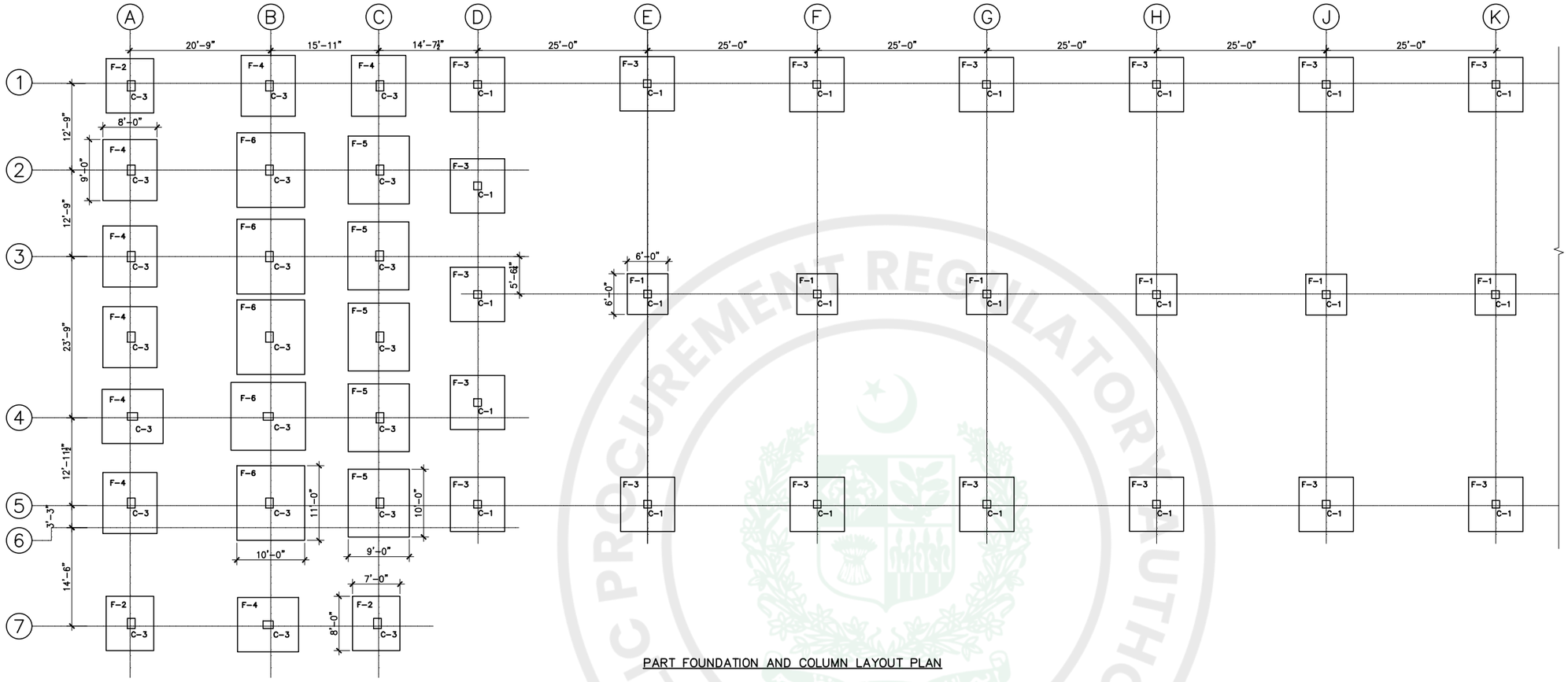
GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
GENERAL NOTES

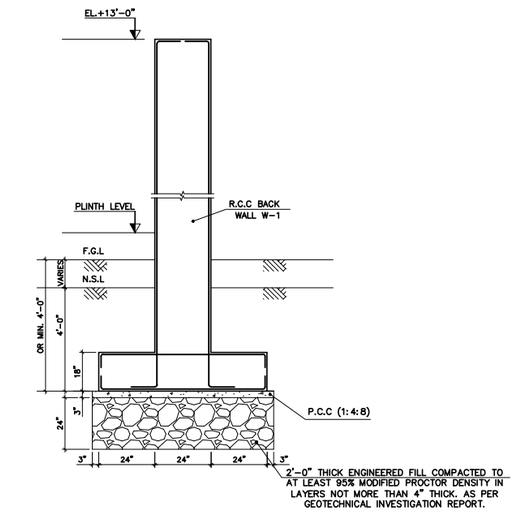
NESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LBD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. G.MUSTAFA	UMER LATIF	TALHA AFZAL	AAMIR RASHEED
FILE	DATE	DRAWING NO.	REV.
CKD. UMER LATIF	SEPT' 2026	156/323/TD/01G01	0
SUBM. TALHA AFZAL			

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PART FOUNDATION AND COLUMN LAYOUT PLAN



SECTION 1–1 OF BACK RCC WALL

NOTES: –

1. FOR GENERAL NOTES REFER DWG. NO. 156/323/TD/01G01
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN FPS, EXCEPT NOTED OTHERWISE.
4. ALL THE FOUNDATIONS ARE DESIGNED BASED ON THE ASSUMED BEARING CAPACITY OF 0.5 TSF.
5. ALL ISOLATED FOOTING SHALL BE PLACED CONCENTRIC WITH THE COLUMNS UNLESS NOTED OTHERWISE.
6. ALL GRIDS ARE PASSING THROUGH CENTER OF COLUMN EXCEPT NOTED OTHERWISE.

GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
FOUNDATION AND COLUMN LAYOUT PLAN (1-2)

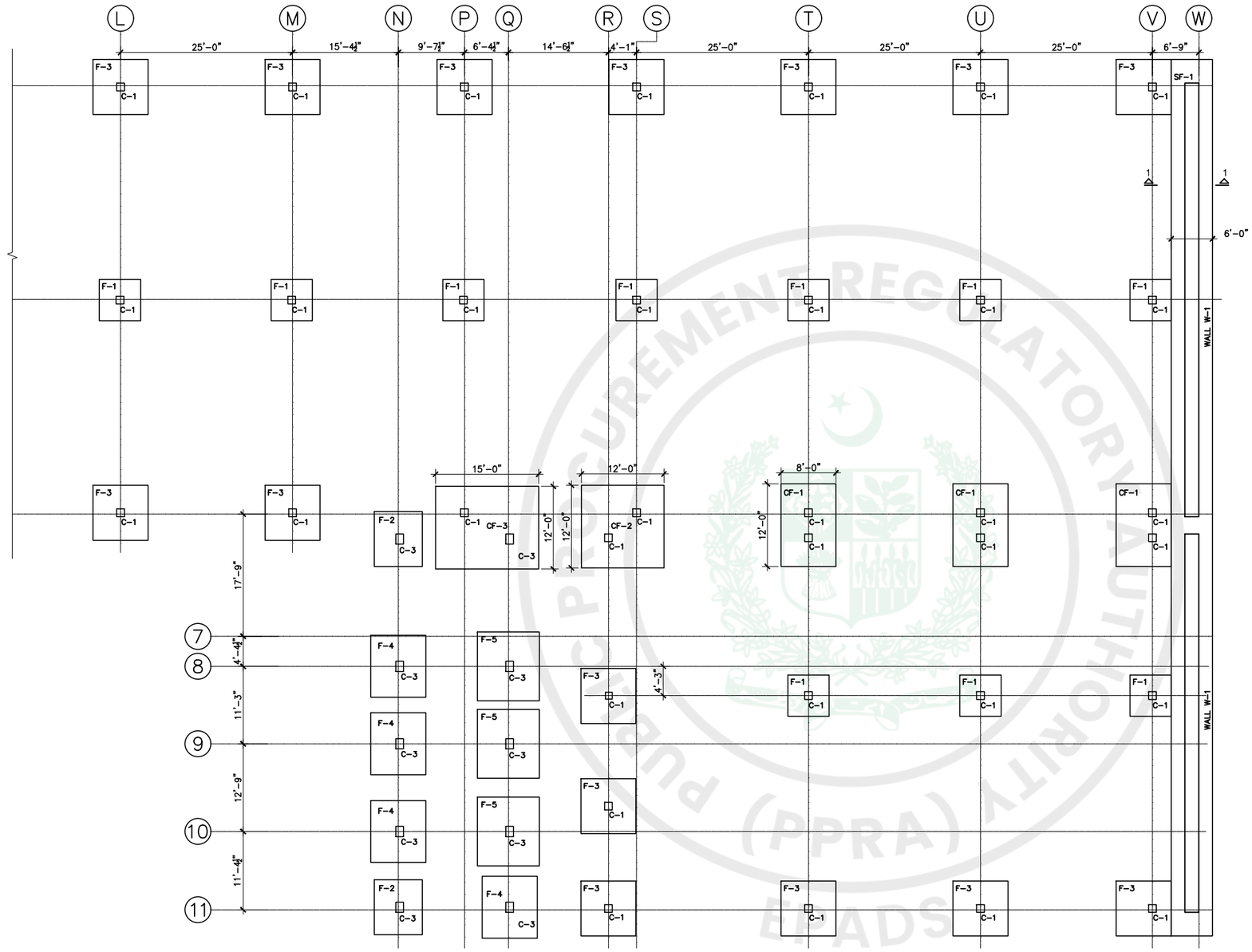
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LBD. ISLAMABAD

TENDER DRAWINGS
NOT TO BE USED FOR CONSTRUCTION

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. G.MUSTAFA	UMER LATIF	TALHA AFZAL	AAMIR RASHEED
FILE	DATE	DRAWING NO.	REV.
CKD. UMER LATIF	OCT' 2026	156/323/TD/01G02	0
SUBM. TALHA AFZAL			

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS



PART FOUNDATION AND COLUMN LAYOUT PLAN

NOTES: –

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6. ALL GRIDS ARE PASSING THROUGH CENTER OF COLUMN EXCEPT NOTED OTHERWISE.

TENDER DRAWINGS
NOT TO BE USED FOR CONSTRUCTION

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

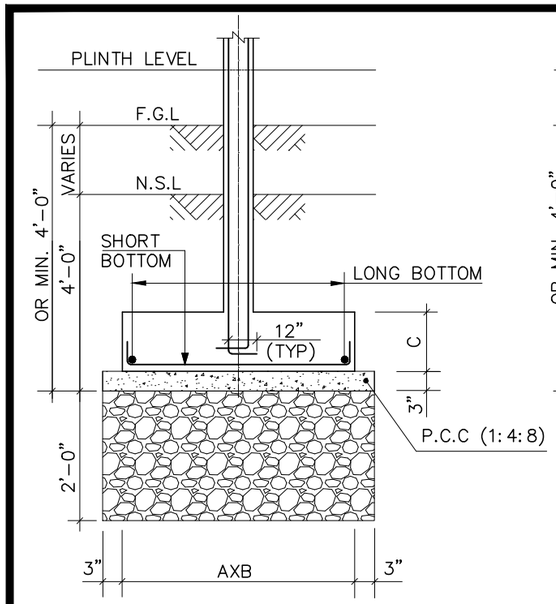
GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
FOUNDATION AND COLUMN LAYOUT PLAN (2-2)

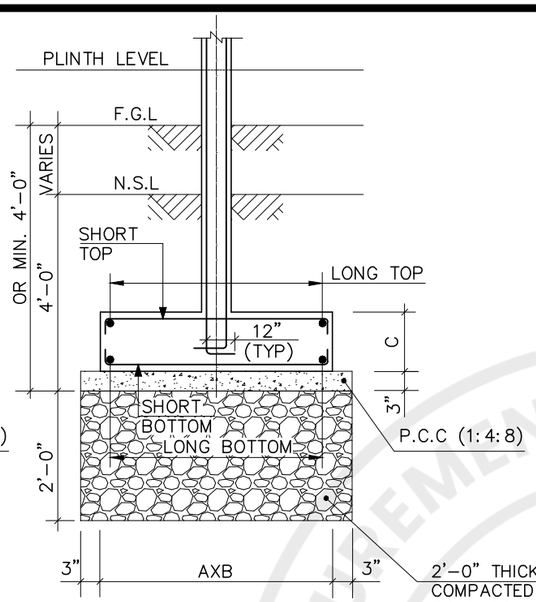
NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LBD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. G.MUSTAFA	UMER LATIF	TALHA AFZAL	AAMIR RASHEED
FILE			
CKD. UMER LATIF	DATE	DRAWING NO.	REV.
SUBM. TALHA AFZAL	OCT' 2026	156/323/TD/01G03	0

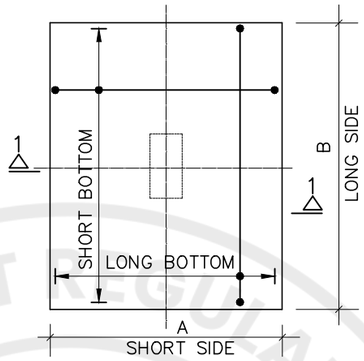
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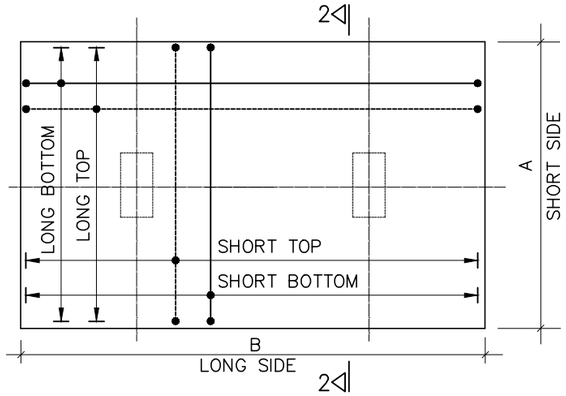
SECTION 1–1 OF ISOLATED FOOTING (TYP)



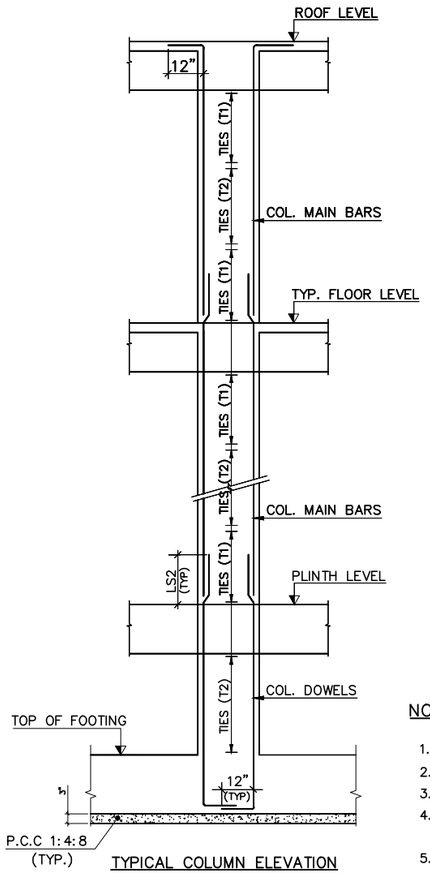
SECTION 2–2 OF COMBINED FOUNDATION (TYP)



PLAN OF ISOLATED FOOTING



PLAN OF COMBINED FOOTING



TYPICAL COLUMN ELEVATION

COLUMN SCHEDULE				
ELEVATION \ MARK		C–1	C–2	C–3
FROM EL.(±)0'–0" TO EL.+13'–0"		8–#5	8–#5	10–#5
FROM TOP OF FOUNDATION TO EL.(±)0'–0"		8–#5	8–#5	10–#5
TIES	T1	7–3XØ3–4½"	7–3XØ3–4½"	7–3XØ3–4½"
	T2	3XØ3–9"	3XØ3–9"	3XØ3–9"
REMARKS		TOP AT EL.+13'–0"	TOP AT EL.+13'–0"	TOP AT EL.+13'–0"

FOOTING SCHEDULE				
FOOTING MARK	FOOTING SIZE			REMARKS
	A	B	C	
F–1	6'–0"	6'–0"	18"	ISOLATED FOOTING
F–2	7'–0"	8'–0"	18"	ISOLATED FOOTING
F–3	8'–0"	8'–0"	18"	ISOLATED FOOTING
F–4	8'–0"	9'–0"	18"	ISOLATED FOOTING
F–5	9'–0"	10'–0"	18"	ISOLATED FOOTING
F–6	10'–0"	11'–0"	18"	ISOLATED FOOTING
CF–1	8'–0"	12'–0"	18"	COMBINED FOOTING
CF–2	12'–0"	12'–0"	18"	COMBINED FOOTING
CF–3	12'–0"	15'–0"	18"	COMBINED FOOTING

NOTES:–

1. FOR GENERAL NOTES REFER DWG. NO. 156/323/TD/01G01
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN FPS, EXCEPT NOTED OTHERWISE.
4. ALL THE FOUNDATIONS ARE DESIGNED BASED ON THE ASSUMED BEARING CAPACITY OF 0.5 TSF.
5. FOR FINAL COLUMN ELEVATION, SEE RESPECTIVE FRAMING PLANS.

TENDER DRAWINGS
NOT TO BE USED FOR CONSTRUCTION

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

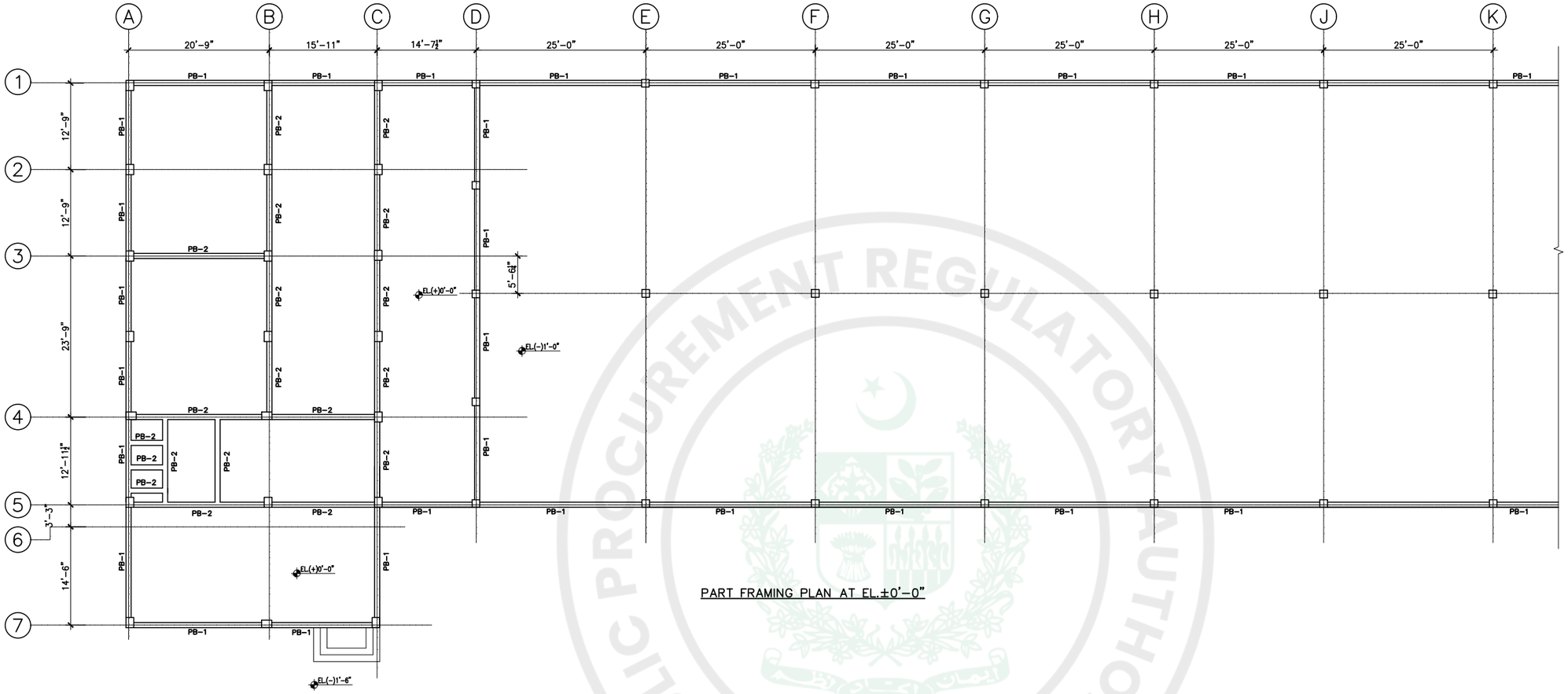
GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
FOUNDATION AND COLUMN SCHEDULE

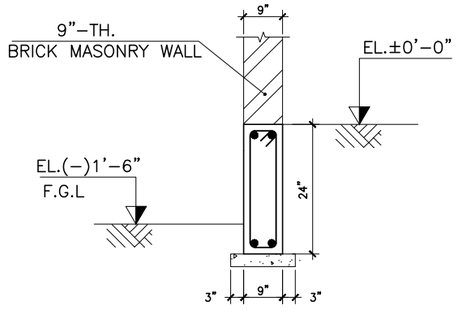
NESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LBD. ISLAMABAD

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FILE			
CKD. UMER LATIF	DATE	DRAWING NO.	REV.
SUBM. TALHA AFZAL	OCT' 2026	156/323/TD/01G04	0

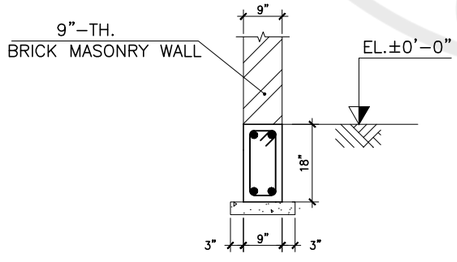
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PART FRAMING PLAN AT EL.±0'-0"



TYP. SECTION OF EXTERNAL PLINTH BEAM



TYP. SECTION OF INTERNAL PLINTH BEAM

NOTES.

1. FOR GENERAL NOTES. REFER DWG. NO. 156/323/TD/01G01.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FPS' SYSTEM, EXCEPT NOTED OTHERWISE.
4. ALL EXTERNAL PLINTH BEAMS ARE 9"X24" EXCEPT NOTED OTHERWISE.
5. ALL INTERNAL PLINTH BEAMS ARE 9"X18" EXCEPT NOTED OTHERWISE.

GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

FRAMING PLAN AT EL.±0'-0" (1-2)

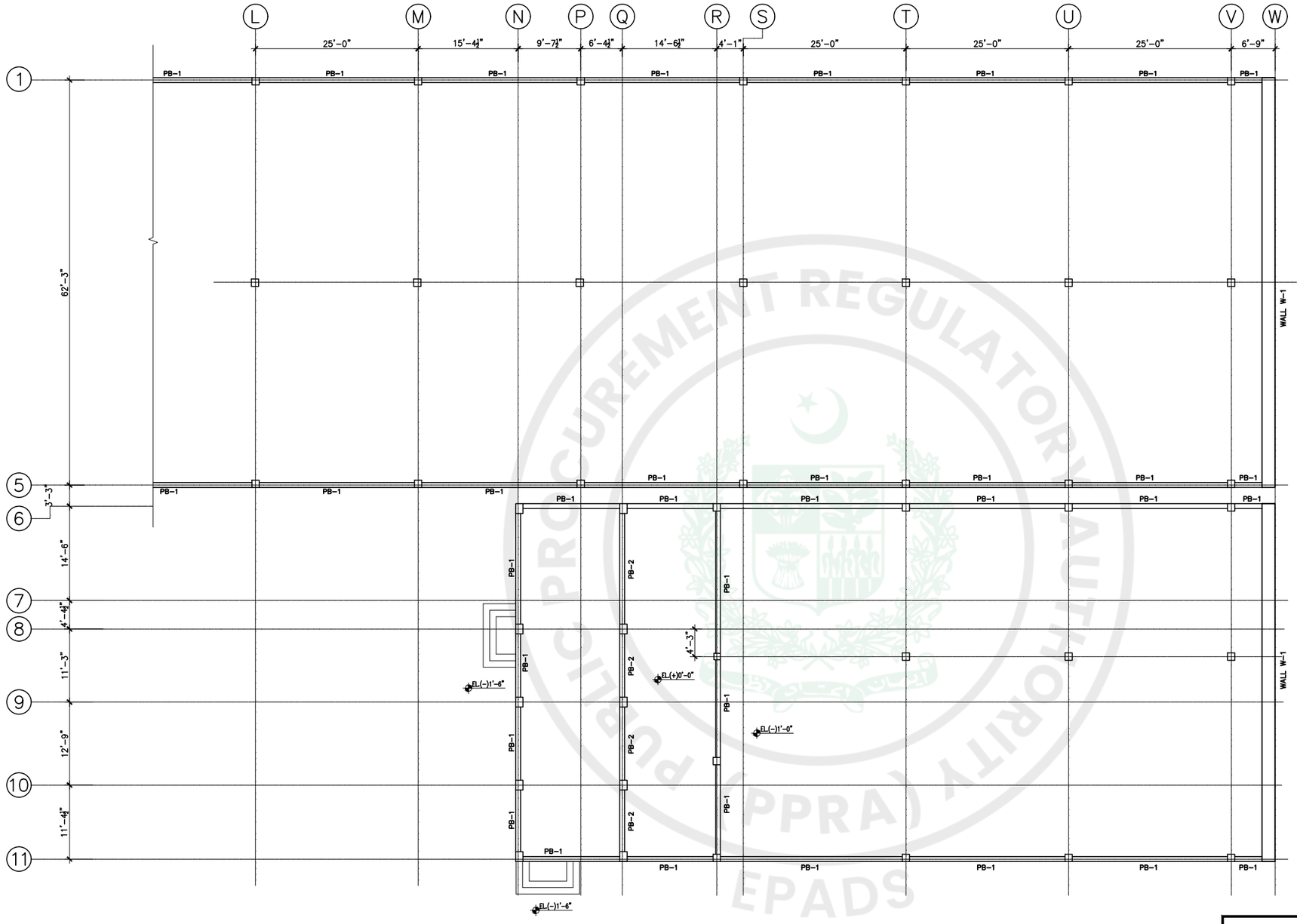
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FILE			
CKD. UMER LATIF	DATE	DRAWING NO.	REV.
SUBM. TALHA AFZAL	OCT' 2026	156/323/TD/01G05	0

PROCUREMENT REGULATORY AUTHORITY (PPRA) PUBLIC EPADS



PART FRAMING PLAN AT EL.±0'-0"

NOTES.

1. FOR GENERAL NOTES. REFER DWG. NO. 156/323/TD/01G01.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FPS' SYSTEM, EXCEPT NOTED OTHERWISE.
4. ALL EXTERNAL PLINTH BEAMS ARE 9"X24" EXCEPT NOTED OTHERWISE.
5. ALL INTERNAL PLINTH BEAMS ARE 9"X18" EXCEPT NOTED OTHERWISE.

TENDER DRAWINGS
NOT TO BE USED FOR CONSTRUCTION

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

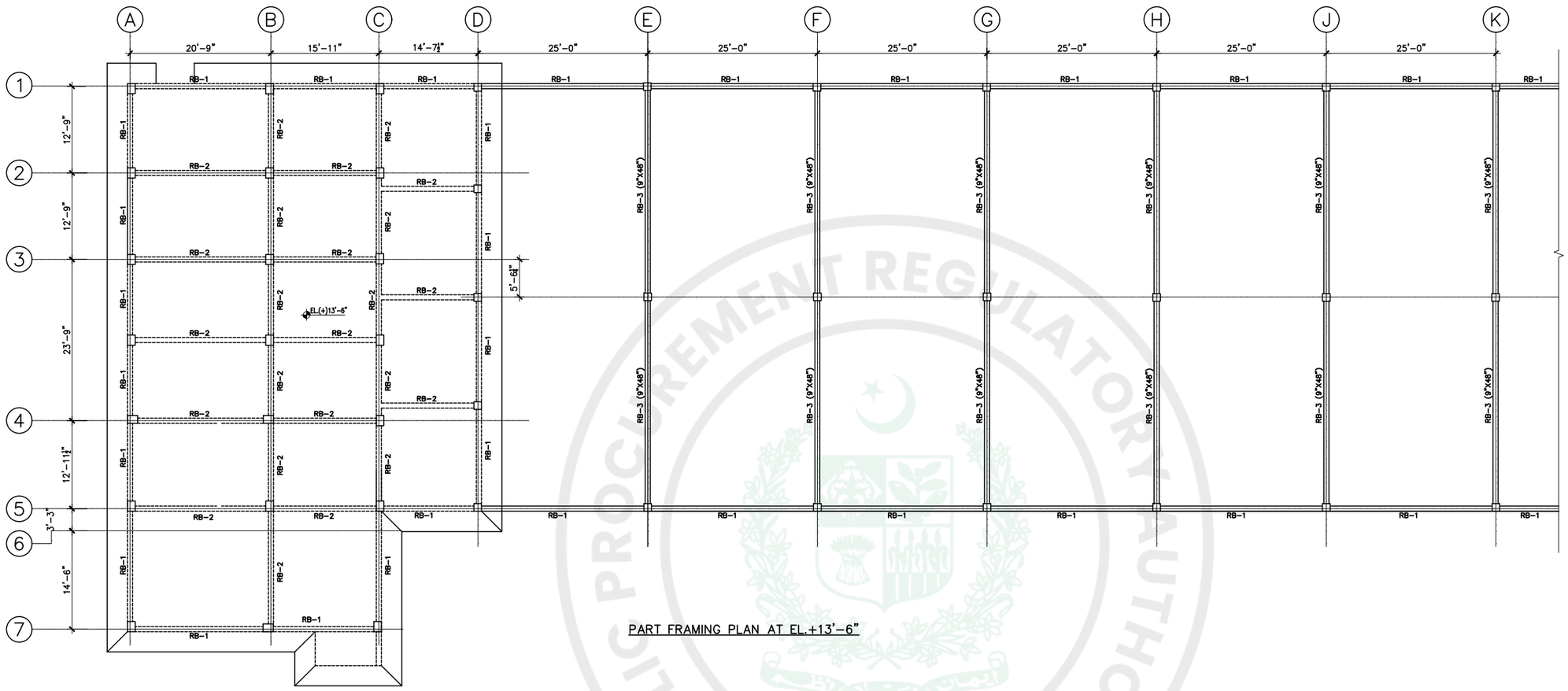
GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
FRAMING PLAN AT EL.±0'-0" (2-2)

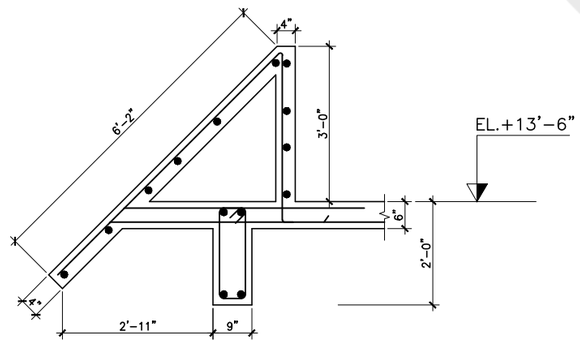
NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LBD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
DWN. G.MUSTAFA	UMER LATIF	TALHA AFZAL	AAMIR RASHEED
FILE	DATE	DRAWING NO.	REV.
CKD. UMER LATIF	OCT' 2026	156/323/TD/01G06	0
SUBM. TALHA AFZAL			

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS



PART FRAMING PLAN AT EL.+13'-6"



TYP. SECTION OF EXTERNAL PLINTH BEAM

NOTES.

1. FOR GENERAL NOTES. REFER DWG. NO. 156/323/TD/01G01.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FPS' SYSTEM, EXCEPT NOTED OTHERWISE.
4. ALL FLOOR BEAMS ARE 9"X24" EXCEPT NOTED OTHERWISE.
5. ALL SLAB ARE 6"-TH. EXCEPT NOTED OTHERWISE.

TENDER DRAWINGS
NOT TO BE USED FOR CONSTRUCTION

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

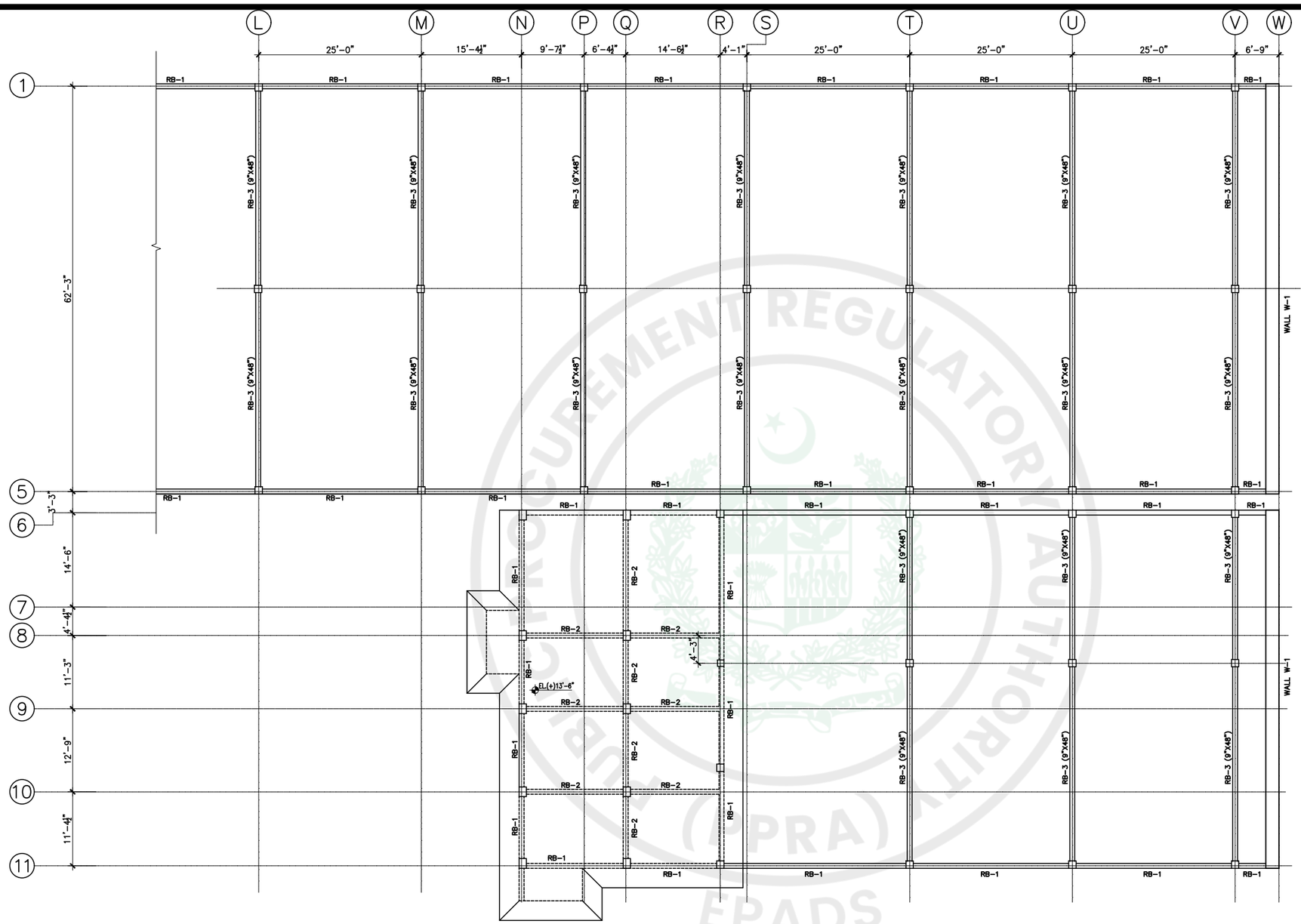
GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
FRAMING PLAN AT EL.+13'-6" (1-2)

NESPAK NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LBD. ISLAMABAD

	RECOMMENDED	VER./CKD.	APPROVED
DESN. NESPAK			
DWN. G.MUSTAFA	UMER LATIF	TALHA AFZAL	AAMIR RASHEED
FILE	DATE	DRAWING NO.	REV.
CKD. UMER LATIF			
SUBM. TALHA AFZAL	OCT' 2026	156/323/TD/01G07	0

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS



PART FRAMING PLAN AT EL.+13'-6"

NOTES.

1. FOR GENERAL NOTES. REFER DWG. NO. 156/323/TD/01G01.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FPS' SYSTEM, EXCEPT NOTED OTHERWISE.
4. ALL FLOOR BEAMS ARE 9"X24" EXCEPT NOTED OTHERWISE.
5. ALL SLAB ARE 6"-TH. EXCEPT NOTED OTHERWISE.

TENDER DRAWINGS
NOT TO BE USED FOR CONSTRUCTION

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
FRAMING PLAN AT EL.+13'-6" (2-2)

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LBD. ISLAMABAD

DESN. NESPAK	RECOMMENDED	VER./CKD.	APPROVED
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SYMBOLS AND DESCRIPTIONS

ELECTRICAL WORKS

S. #	SYMBOL	DESCRIPTION	STATUS
1		MSB -- MAIN SWITCH BOARD	
2		DB -- DISTRIBUTION BOARD	
3		TRIPLE POLE, 500 VOLTS, MOULDED CASE CIRCUIT BREAKER (RUPTURING CAPACITY INDICATED ON THE DRAWINGS & MENTIONED IN THE RELEVANT BOQ ITEM)	
4		SINGLE POLE, 250 VOLTS, MINIATURE CIRCUIT BREAKER (RUPTURING CAPACITY INDICATED ON THE DRAWINGS & MENTIONED IN THE RELEVANT BOQ ITEM)	
5		SURGE PROTECTION DEVICE CLASS-2 40KA RATED	
6		INSTRUMENTS PROTECTION FUSE (ONE NO.)	
7		INSTRUMENTS PROTECTION FUSES (THREE NOS.)	
8	VSS	VSS - VOLTMETER SELECTOR SWITCH (RY-YB-BR-OFF-RN)	
9	ASS	ASS - AMMETER SELECTOR SWITCH (R-Y-B-OFF)	
10	A	DIGITAL AC AMMETER	
11	V	DIGITAL AC VOLTMETER	
12		THREE NOS. SINGLE PHASE CURRENT TRANSFORMERS (TRANSFORMATION RATIOS INDICATED ON DRAWINGS)	
13		PHASE INDICATION LAMPS R - RED Y - YELLOW B - BLUE	
14		56" CEILING FAN	
15		EXHAUST FAN	
16		WALL BRACKET FAN	
17		LIGHT CONTROL SWITCHES AND FAN DIMMERS	
18		13Amp SOCKET WIRED WITH 2.5 SQ.mm PVC COPPER CABLE	
19		15Amp SOCKET WIRED WITH 4 SQ.mm PVC COPPER CABLE	
20		20Amp SOCKET WIRED WITH 6 SQ.mm PVC COPPER CABLE	

LIGHTING FIXTURES

S. #	SYMBOL	DESCRIPTION	STATUS
1		TUBE LIGHT FIXTURE WITH WITH 1x28W T-5 LAMP & PRISMATIC DIFFUSER	
2		7W CEILING MOUNTED DOWN LIGHTER	
3		12W CEILING MOUNTED DOWN LIGHTER	
4		15W CEILING MOUNTED DOWN LIGHTER	
5		4' LENGTH LED PANEL LIGHT	
6		BULKHEAD WITH 18W LED BULB	
7		WALL BRACKET LIGHT	
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			

COMMUNICATIONS SYSTEMS

S. #	SYMBOL	DESCRIPTION	STATUS
1	C	RJ 45 OUTLET FOR DATA	
2		TELEPHONE POINT	
3		TV ANTENA POINT	
4	SD	SMOKE DETECTOR	
5	HD	HEAT DETECTOR	
6	M	MANUAL CALL POINT	
7	FACP	FIRE ALARM CONTROL PANEL	
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			

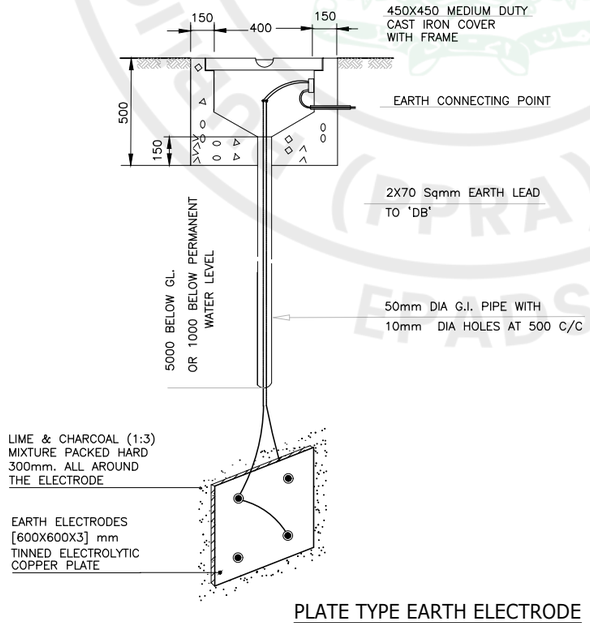


PLATE TYPE EARTH ELECTRODE
N.T.S.

GENERAL NOTES

ELECTRICAL SYSTEMS

1. FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.
2. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE ELECTRICAL WORKS. IF THE SITE CONDITIONS NECESSITATE ANY ALTERATIONS OR DEVIATIONS THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
3. ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH BOQ, TECHNICAL SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC DRAWINGS & ALL OTHER RELEVANT DETAILS.
4. DIMENSIONS/MEASUREMENTS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS/ MEASUREMENTS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITIONS OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.
6. PROPER CO-ORDINATION OF ELECTRICAL WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.
7. ALL NON - CURRENT CARRYING PARTS i.e. OUTER CASINGS OF EQUIPMENT SUCH AS HT & LT PANELS, DISTRIBUTIONS BOARDS, CABLE TRAYS, AUXILIARY CONSTRUCTIONS FOR EQUIPMENT ETC. SHALL BE CONNECTED TO THE GROUNDING/ EARTHING SYSTEM AT REQUIRED NUMBER OF POINTS WITH SPECIFIED SIZES OF CONDUCTORS. WATER PIPES ALONG ELECTRICAL LINE SHALL BE BONDED TO THE EARTHING SYSTEM WITH 10 sq.mm. SINGLE CORE, COPPER CONDUCTOR PVC CABLE.
8. ELECTRICAL POINTS FOR EQUIPMENT SHALL BE INSTALLED IN CO-ORDINATION WITH THE RELEVANT DRAWINGS OF OTHER SERVICES, SUCH AS COMMUNICATION SYSTSMS, HVAC, PLUMBING ETC. THE LOCATION ON ELECTRICAL DRAWINGS IS ONLY INDICATIVE.
9. ARRANGEMENT OF ELECTRICAL EQUIPMENTS ON ELECTRICAL DRAWINGS ARE TENTATIVE. EXACT ARRANGEMENT OF EQUIPMENTS SHALL BE MADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASE OF MAINTENANCE.
10. LOADS ON ALL PHASES SHALL BE BALANCED AT THE TESTING/ COMMISSIONING STAGE.
11. CONDUIT/DUCT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER OF TWO INCHES FROM TOP OF CONDUIT/DUCT TO FINISH FLOOR LEVEL.
12. RUN GREEN-YELLOW OR GREEN SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZES AS PROTECTIVE EARTH CONDUCTOR (ECC) ALL ALONG LIGHT AND POWER WIRING. WHEREVER THE SIZE IS NOT SPECIFIED THE FOLLOWING CRITERIA SHALL BE OBSERVED TO DETERMINE MINIMUM CROSS SECTIONAL AREA OF EARTH CONTINUITY CONDUCTOR (ECC) IN RELATION TO THE AREA OF ITS PHASE CONDUCTORS. RUN SEPARATE ECC FOR EACH CIRCUIT.
    - ECC & PHASE CONDUCTOR OF SAME SIZE FOR UPTO AND INCLUDING 16 SQMM CABLES
    - 16 SQMM ECC FOR PHASE CONDUCTOR OF 16 SQMM, 25SQMM & 35 SQMM CABLES
    - FOR CABLES OF 50 SQMM AND ABOVE SIZES, ECC IS HALF SIZE OF PHASE CONDUCTOR.
    - MAXIMUM SIZE OF ECC IS 70 SQMM.
13. THE MAXIMUM CAPACITY OF PVC CONDUITS FOR SIMULTANEOUS DRAWING OF PVC INSULATED CABLES SHALL BE DETERMINED AS PER BS 4607. THE FOLLOWING TABLE SHALL BE USED TO DETERMINE THE MAXIMUM NUMBER OF CABLES.

S. #	NOMINAL CONDUCTOR SIZE(SQMM)	NO. & DIA OF WIRES	NOMINAL OVERALL DIA	20 MM DIA (3/4" DIA)	25 MM DIA (1" DIA)	32 MM DIA (1¼ " DIA)
1	1.5	1/1.38	3.1	10	18	30
2	2.5	1/1.78	3.5	8	14	23
3	2.5	7/0.67	3.8	7	12	20
4	4	7/0.85	4.3	5	9	15
5	6	7/1.04	4.9	4	7	12
6	10	7/1.35	6.2	2	4	7
7	16	7/1.70	7.3	-	3	5
8	25	7/2.14	9.0	-	2	3
9	35	19/1.53	10.3	-	-	2

14. NORMAL & EMERGENCY CIRCUITS SHALL RUN IN SEPARATE CONDUITS.
15. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.
16. THE WIRING SHALL BE CONTINUOUS LOOPING-IN TYPE AND NO JOINT IN WIRES SHALL BE ALLOWED.
17. THE WIRING SYSTEM SHALL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.
18. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL (F.F.L.) TO THE BOTTOM OF FITTINGS SHALL BE AS UNDER, UNLESS OTHERWISE SHOWN OR INSTRUCTED.

MAIN SWITCH BOARD	48 INCHES
DISTRIBUTION BOARD	48 INCHES
CONTROL PANEL	48 INCHES
ON/OFF PUSH BUTTON STATION	48 INCHES
DIMMER CONTROL UNIT	48 INCHES
LIGHT CONTROL SWITCH (ONE WAY/TWO WAY)	48 INCHES
5A SOCKET OUTLETS IN GENERAL AREAS	10 INCHES
15A SOCKET OUTLETS IN GENERAL AREAS	10 INCHES
20A SOCKET OUTLETS IN GENERAL AREAS	10 INCHES
15A SOCKET OUTLETS IN KITCHEN (ABOVE COUNTER)	10 INCHES
15A SOCKET OUTLETS IN TOILETS	66 INCHES
16A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS.	48 INCHES
32A TP 5PIN INDUTRIAL SOCKET OUTLETS IN LABS	48 INCHES
63A TP 5PIN INDUTRIAL SOCKET OUTLETS IN LABS.	48 INCHES
CEILING FAN	96 INCHES
WALL FAN	84 INCHES
EXHAUST FAN	REFER ARCH. DRGS.

COMMUNICATION SYSTEMS

1. FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL COMMUNICATION SYSTEMS DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.
2. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE COMMUNICATION SYSTEMS WORKS. IF THE SITE CONDITIONS NECESSITATE ANY ALTERATIONS OR DEVIATIONS THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
3. ALL COMMUNICATION SYSTEMS DRAWINGS SHALL BE READ IN CONJUNCTION WITH TECHNICAL SPECIFICATIONS, ITEMS OF B.O.Q., ARCHITECTURAL STRUCTURAL, HVAC, PLUMBING DRAWINGS AND ALL OTHER RELEVANT DETAILS.
4. DIMENSIONS/MEASUREMENTS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS/MEASUREMENTS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITIONS OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.
6. PROPER CO-ORDINATION OF COMMUNICATION SYSTEMS WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.
7. TELEPHONE SYSTEM SHALL BE COMPLETE WITH INSTRUMENTS, EQUIPMENT AND INTERCONNECTING WIRING, TELEPHONE EXCHANGE, TELEPHONE OUTLETS, JUNCTION BOXES, CONDUITS OF SPECIFIED SIZES IN THE BUILDING, AND UNDERGROUND PIPES OF SPECIFIED SIZES SHOWN ON DRAWINGS SHALL BE PROVIDED. WHERE SIZE OF CONDUIT/PIPE IS NOT SPECIFIED SUITABLE SIZE SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
8. POINTS FOR COMMUNICATION SYSTEMS EQUIPMENT SHALL BE INSTALLED IN CO-ORDINATION WITH THE RELEVANT DRAWINGS OF OTHER SERVICES, SUCH AS ELECTRICAL, HVAC, PLUMBING ETC. THE LOCATION ON COMMUNICATION SYSTEMS DRAWINGS IS ONLY INDICATIVE.
9. ARRANGEMENT OF COMMUNICATION SYSTEMS EQUIPMENTS ON DRAWINGS ARE TENTATIVE EXACT ARRANGEMENT OF EQUIPMENTS SHALL BE MADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASE OF MAINTENANCE.
10. CONDUIT/DUCT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER 2 INCHES FROM TOP OF CONDUIT/DUCT TO FINISH FLOOR LEVEL.
11. RUN GREEN-YELLOW OR GREEN SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZES AS PROTECTIVE EARTH CONDUCTOR (ECC) ALL ALONG COMMUNICATION SYSTEMS WIRING.
12. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.
13. THE WIRING SHALL BE CONTINUOUS LOOPING-IN TYPE AND NO JOINT IN WIRES SHALL BE ALLOWED.
14. THE WIRING SYSTEM SHALL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.
15. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL (F.F.L.) TO THE BOTTOM OF FITTINGS SHALL BE AS UNDER, UNLESS OTHERWISE SHOWN OR INSTRUCTED.

TELEPHONE JUNCTION BOX	10 INCHES
TELEPHONE OUTLET	10 INCHES
INTERCOM CONTROL PACK	10 INCHES
INTERCOM STATION (WALL MOUNTED)	36 INCHES
FA SYSTEM CONTROL PANEL	36 INCHES
FA SYSTEM JUNCTION BOX	10 INCHES
MANUAL CALL STATION	42 INCHES
AUDIO ALARM	100 INCHES

REFERENCE DRAWINGS	REV. NO.	DATE	DESCRIPTION	BY	CKD.	APPR.

GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

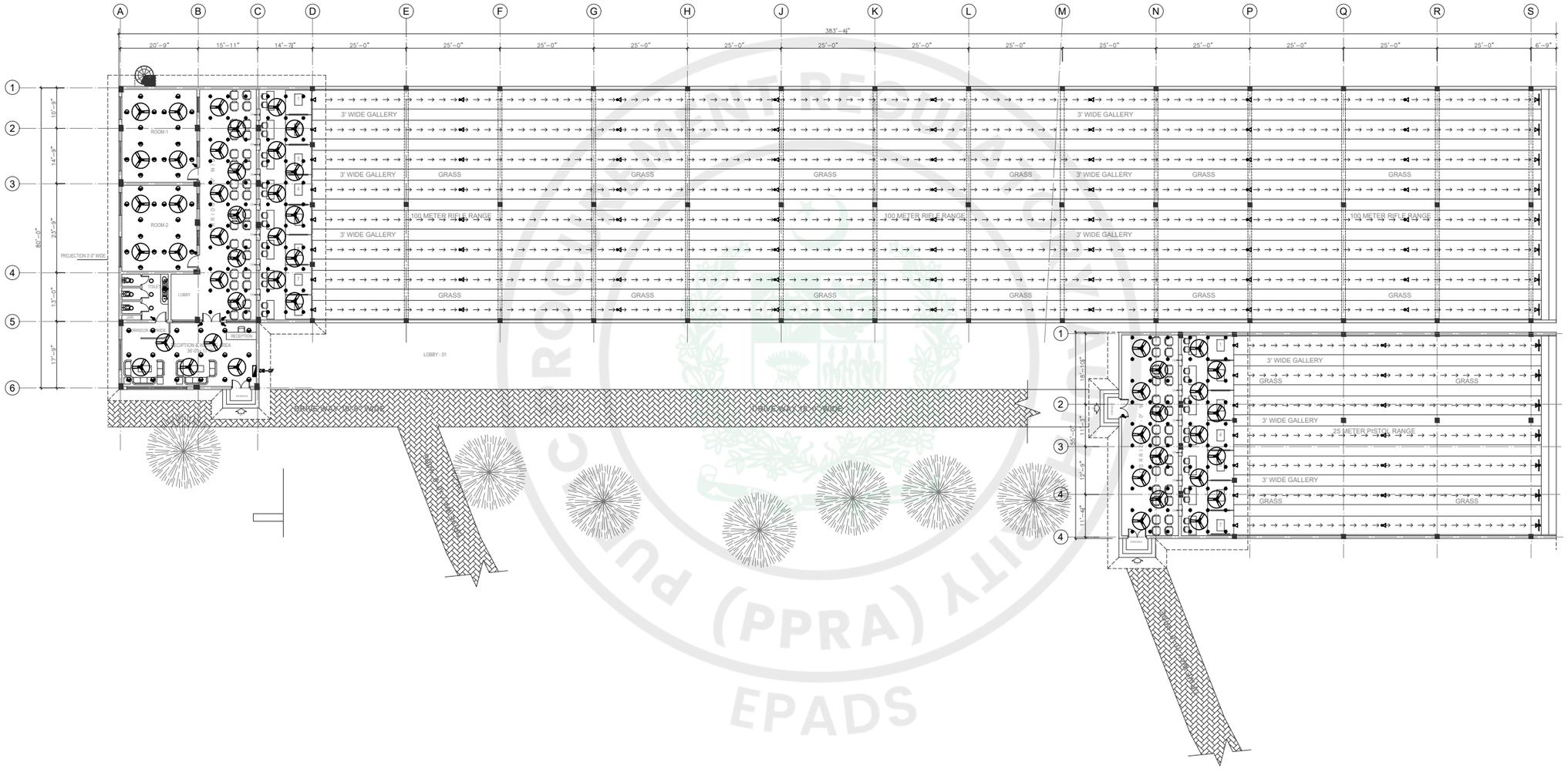
LEGEND & GENERAL NOTES

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

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DWN.	KALEEM ULLAH	JEHANZEB	AMENAH
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A-1



EARTH BUND

GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

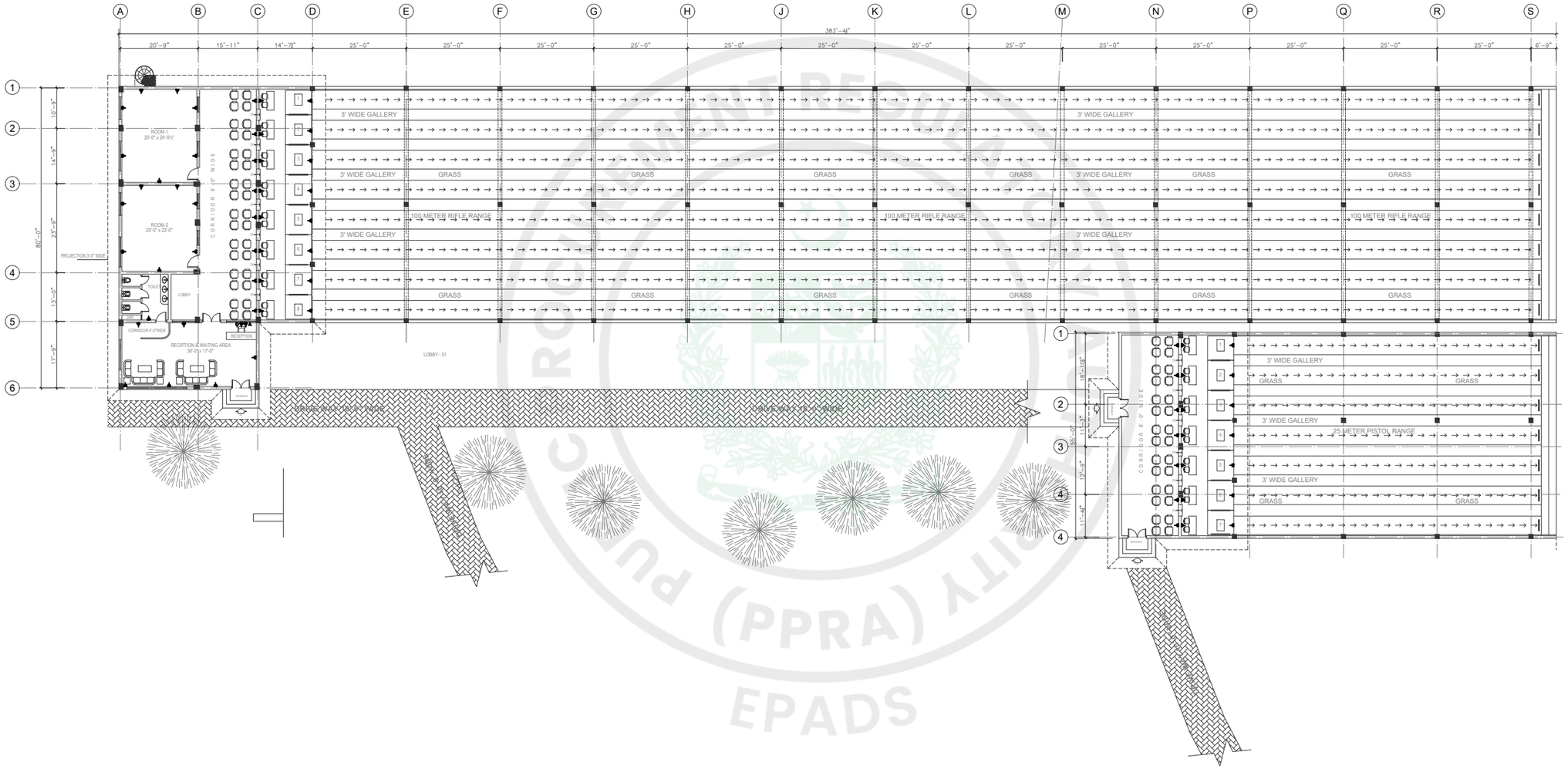
GROUND FLOOR PLAN
LIGHTING LAYOUT

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PAKISTAN (PVT.) LTD. ISLAMABAD

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GUN AND COUNTRY CLUB

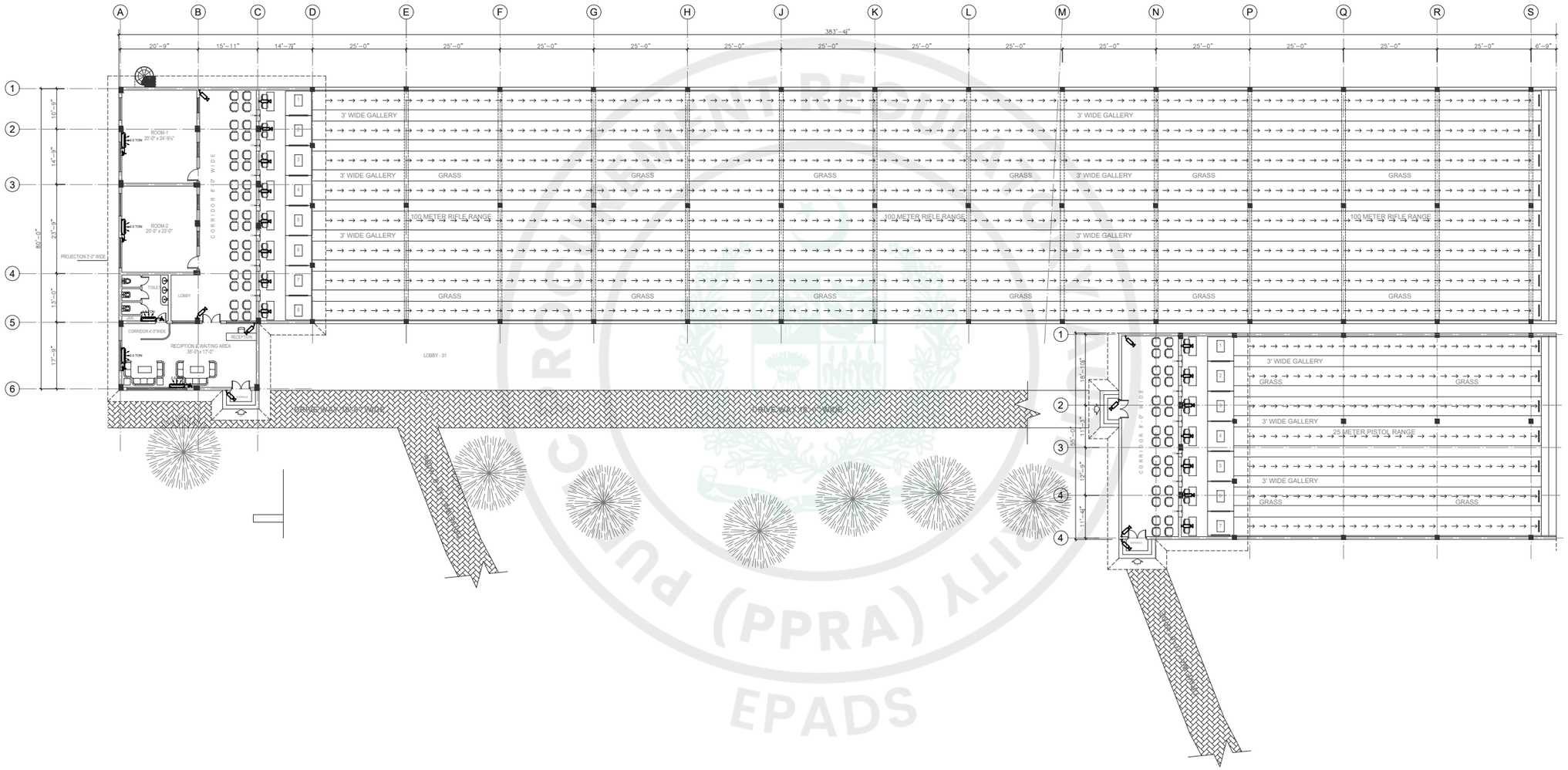
25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

GROUND FLOOR PLAN
POWER LAYOUT

NATIONAL ENGINEERING SERVICES
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GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

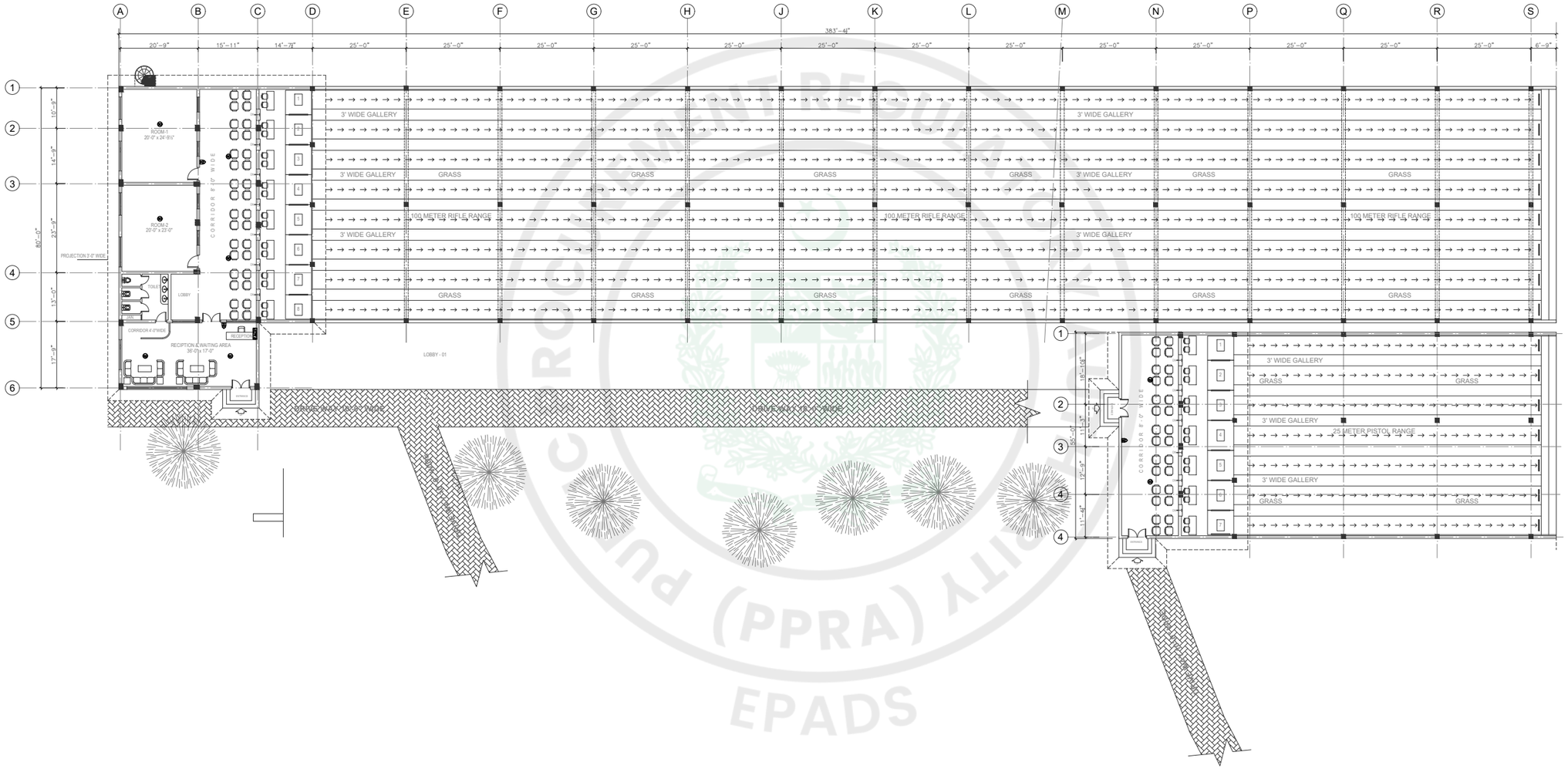
GROUND FLOOR PLAN
ACs & CCTV LAYOUT

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GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

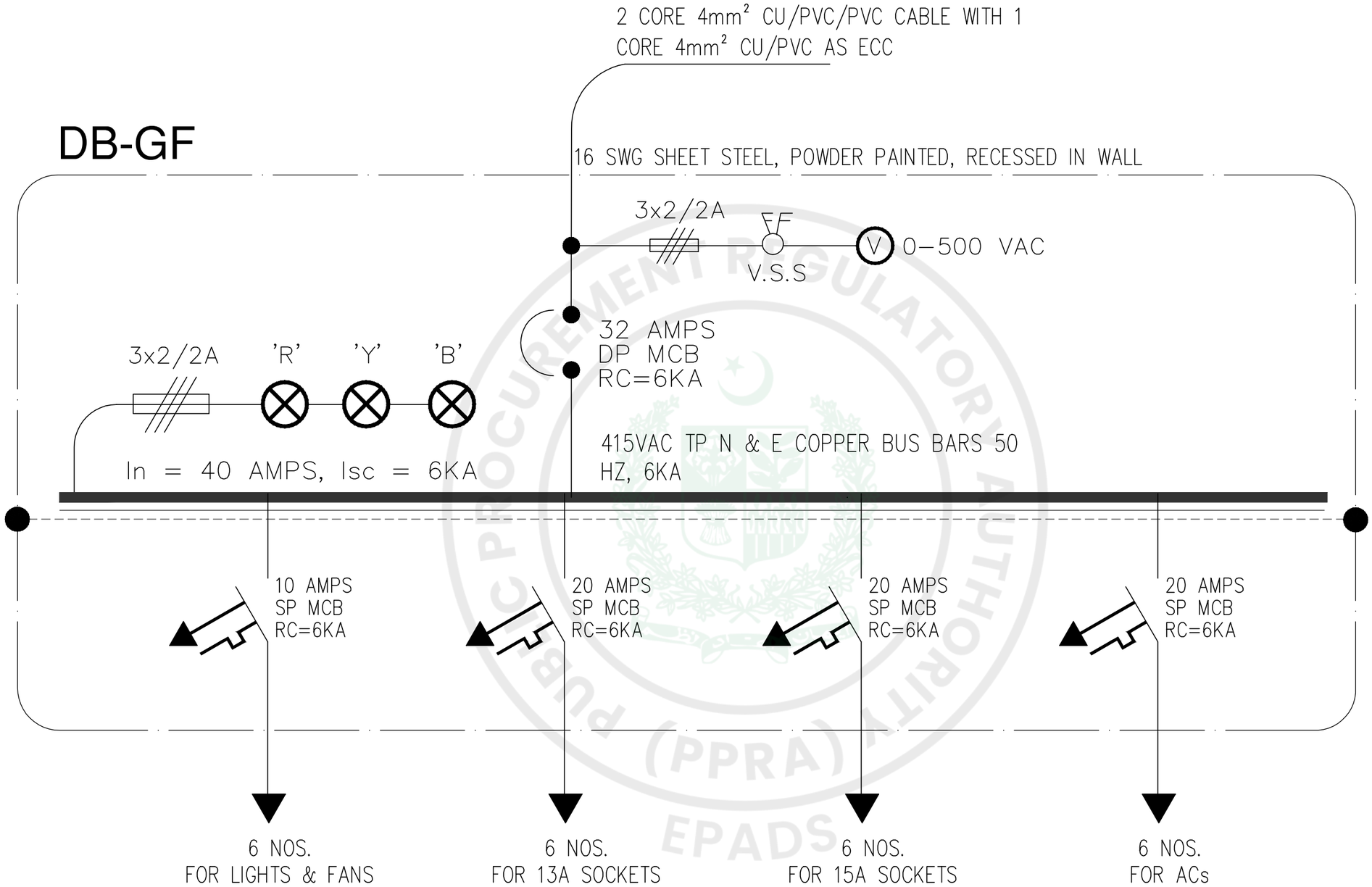
GROUND FLOOR PLAN
FIRE ALARM SYSTEM LAYOUT

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

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GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

SINGLE LINE DIAGRAM

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

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APPROVED AMENAH
DATE SEP 2026

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GENERAL NOTES.

1 - PIPE PASSING THROUGH WALL, FLOOR OR ROOF SHALL BE PROTECTED WITH SLEEVES

2 - CLEANOUT OR ACCESS DOOR SHALL BE PROVIDED AT THE BASE OF ALL DRAINAGE STACK AND AT EACH FLOOR LEVEL.

3 - DRAINAGE STACKS SHALL BE CONNECTED TO HORIZONTAL FIXTURE DRAIN PIPES BY 90° SWEEP TEE OR Y AND 45° BEND.

4 - DRAINAGE STACKS SHALL BE CONNECTED TO UNDERGROUND DRAIN PIPE BY EITHER 90° LARGE/LONG RADIUS BEND OR TWO 45° BENDS, AS SUITED AS PER SITE.

5 - PIPE SIZES ARE IN INCHES. UNLESS OTHERWISE STATED

6 - PLUMBING SERVICES, SHALL BE CO-ORDINATED WITH OTHER SERVICES SUCH AS ELECTRICAL, HVAC ETC. TO AVOID CONFLICT OR INTERFERENCE WITH THEM.

7 - SIZE OF FLOOR DRAIN UNLESS OTHERWISE STATED SHALL BE SAME AS THE SIZE OF OUTLET DRAIN PIPE.

8 - WHEREVER FLOOR DRAIN/TRAP IS SHOWN, SLOPE FLOOR TOWARDS DRAIN/TRAP.

9 - HORIZONTAL DRAINAGE PIPING OF 3 INCH DIAMETER & LESS SHALL BE INSTALLED WITH A SLOPE OF NOT LESS THEN 1/4 INCH PER FOOT, LARGER ONES WITH A SLOPE OF NOT LESS THEN 1/8 INCH PER FOOT.

10 - EXTENSION OF VENT PIPES THROUGH A ROOF SHALL BE TERMINATED AT LEAST 6 INCHES ABOVE FINISHED ROOF LEVEL. EACH VENT TERMINAL SHALL BE MADE WATER TIGHT WITH THE ROOF BY PROPER FLASHING

11 - THE "VERTICAL DISTANCE" FROM FIXTURE OUTLET TO THE TRAP WEIR SHALL PREFERABLY BE NOT MORE THAN 12 INCHES. HOWEVER, THIS "VERTICAL DISTANCE" FROM THE FIXTURE OUTLET TO THE TRAP WEIR SHALL NOT EXCEED 24 INCHES.

12 - WHERE THE CHANGE OF DIRECTION IS 45° OR LESS, IT IS NOT NECESSARY TO PROVIDE A CLEAN OUT BUT WHEN THE CHANGE IN DIRECTION IS MORE THAN 45°, A CLEAN OUT SHOULD BE REQUIRED.

13 - CLEANOUTS SHALL BE SO INSTALLED THAT THERE IS A CLEARANCE OF NOT LESS THAN 18 INCHES FOR THE PURPOSE OF RODDING.

14 - ALL TRAPS AND FLOOR DRAINS SHALL HAVE A WATER SEAL NOT LESS THAN 2 INCHES.

15 - NO "T"-CONNECTION IS ALLOWED IN SOIL AND WASTE PIPING.

16 - ALL PLUMBING DUCTS MUST BE PLASTERED WITH 1:3 C/S WATER PROOF CHEMICAL BEFORE PIPE INSTALLATION.

17 - ALL PLUMBING DUCTS MUST HAVE ACCESS PANELS AT EACH FLOOR.

ABBREVIATION	DESCRIPTION
RWP	RAIN WATER PIPE
MH	MANHOLE
D/S	DRAINAGE STACK
GI	GALVANIZED IRON
PRV	PRESSURE REDUCING VALVE
HWL	HIGHEST WATER LEVEL
GWH	GAS WATER HEATER
GV	GATE VALVE
CV	CHECK VALVE
MS	MILD STEEL
FHC	FIRE HYDRANT CABINET
FF/C	FROM FALSE CEILING
AF/C	ABOVE FALSE CEILING
(TYP)	TYPICAL
FT	FLOOR TRAP
COP	CLEAN OUT PLUG
U/F	UNDER FLOOR / LOW LEVEL
FHC	FIRE HOSE CABINET
WC	WATER CLOSET
N.T.S.	NOT TO SCALE

ABBREVIATION	DESCRIPTION
Ø	DIAMETER OF PIPE
CW	COLD WATER PIPE
HW	HOT WATER PIPE
HWR	HOT WATER RETURN
SP	SOIL PIPE
WP	WASTE PIPE
VP	VENT PIPE
S/S	SOIL STACK
W/S	WASTE STACK
V/S	VENT STACK
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
WT	WATER TAP
U/G.	UNDER GROUND
U/F.	UNDER FLOOR
GWH	GAS WATER HEATER
EWH	ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER

SYMBOL	DESCRIPTION
	COLD WATER PIPE
	HOT WATER PIPE
	SOIL PIPE
	WASTE PIPE
	VENT PIPE
	GATE VALVE ON HORIZONTAL PIPE
	GATE VALVE ON VERTICAL PIPE
	CHECK VALVE OR NON-RETURN VALVE
CO	FLOOR CLEAN OUT
COP	FLOOR CLEAN OUT PLUG
MFT	MULTI FLOOR TRAP
FT	FLOOR TRAP
	DIRECTION OF FLOW
MS	MUSLIM SHOWER
WT	WATER TAP
	GULLY TRAP
GEWH	GAS& ELECTRIC TWIN WATER HEATER
EWH	ELECTRIC WATER HEATER
	PLUGGED
	WATER PUMP
MH	MANHOLE WITH BLIND COVER
CP	RAIN CATCH PIT WITH GRATING COVER
	KHURA WITH PARKING DRAIN
	KHURA WITH ROOF DRAIN
CO2	CO2 FIRE EXTINGUISHER
DCP	DCP FIRE EXTINGUISHER

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GENERAL NOTES:

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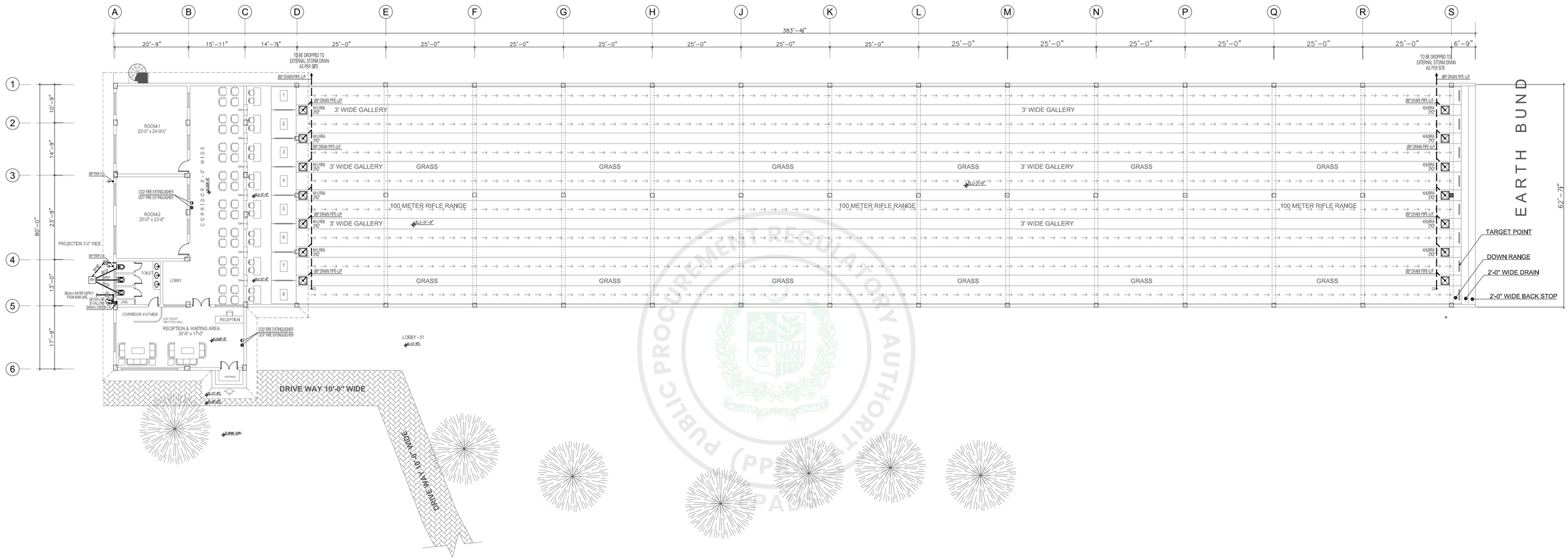
GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
LEGENDS & GENERAL NOTES (PLUMBING WORKS)

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

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GUN AND COUNTRY CLUB

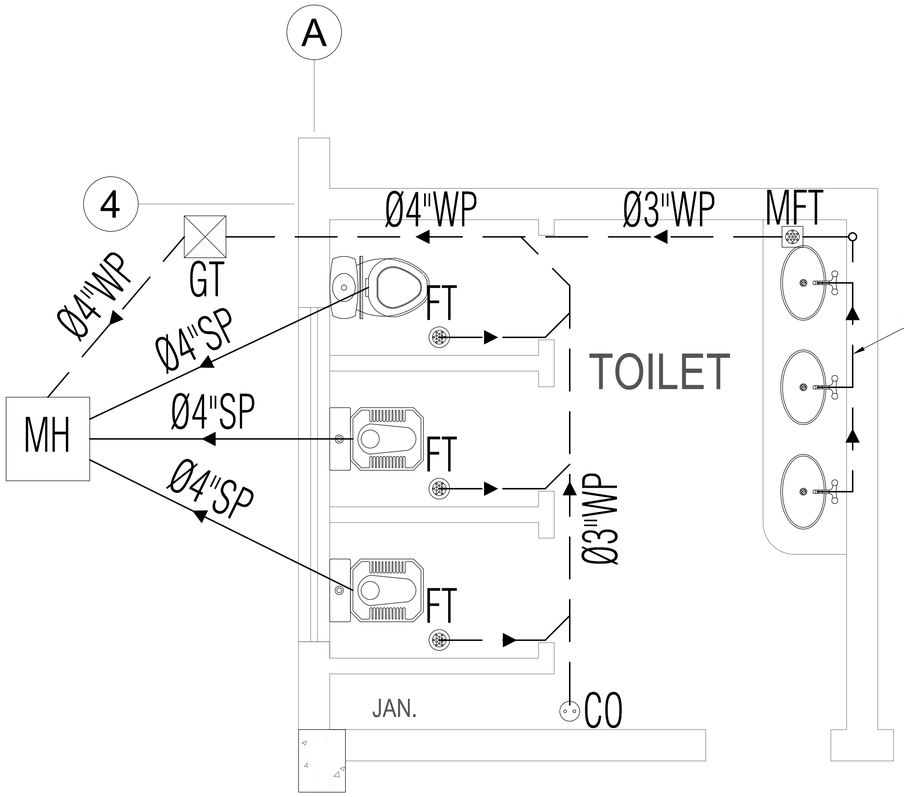
25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

GROUND FLOOR PLAN

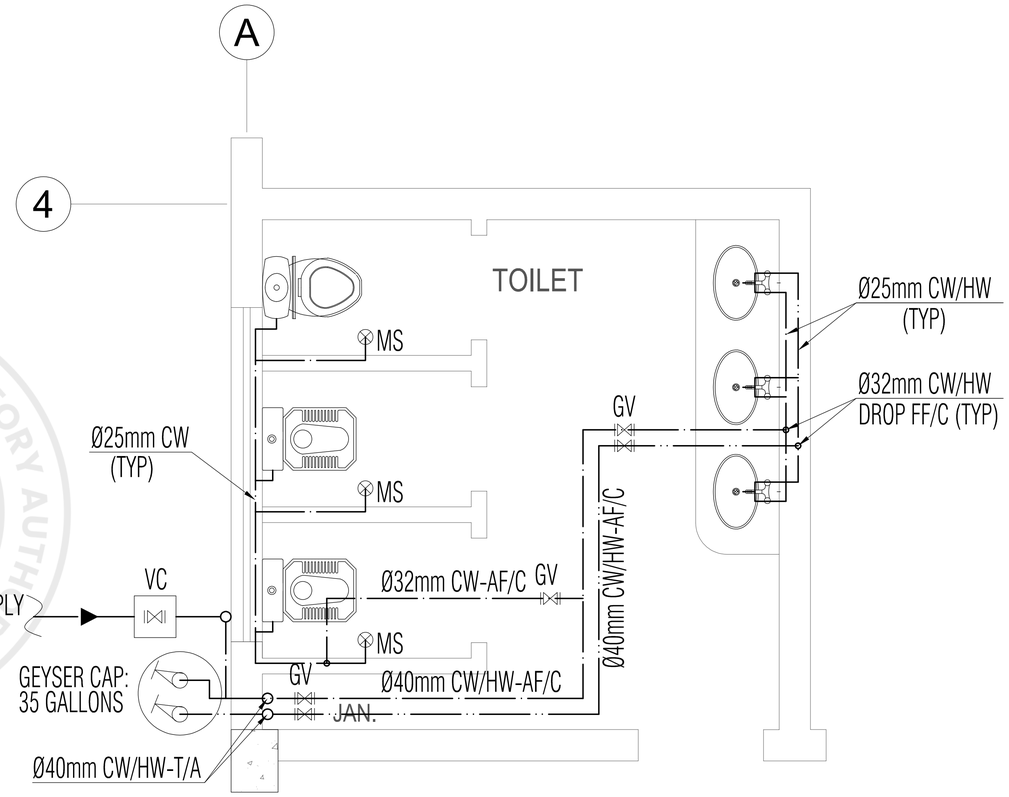
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CKD. M.A.JAVED	OCT, 2026	156/326/C/04F02	.
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(SANITARY DRAINAGE LAYOUT)



(WATER SUPPLY LAYOUT)

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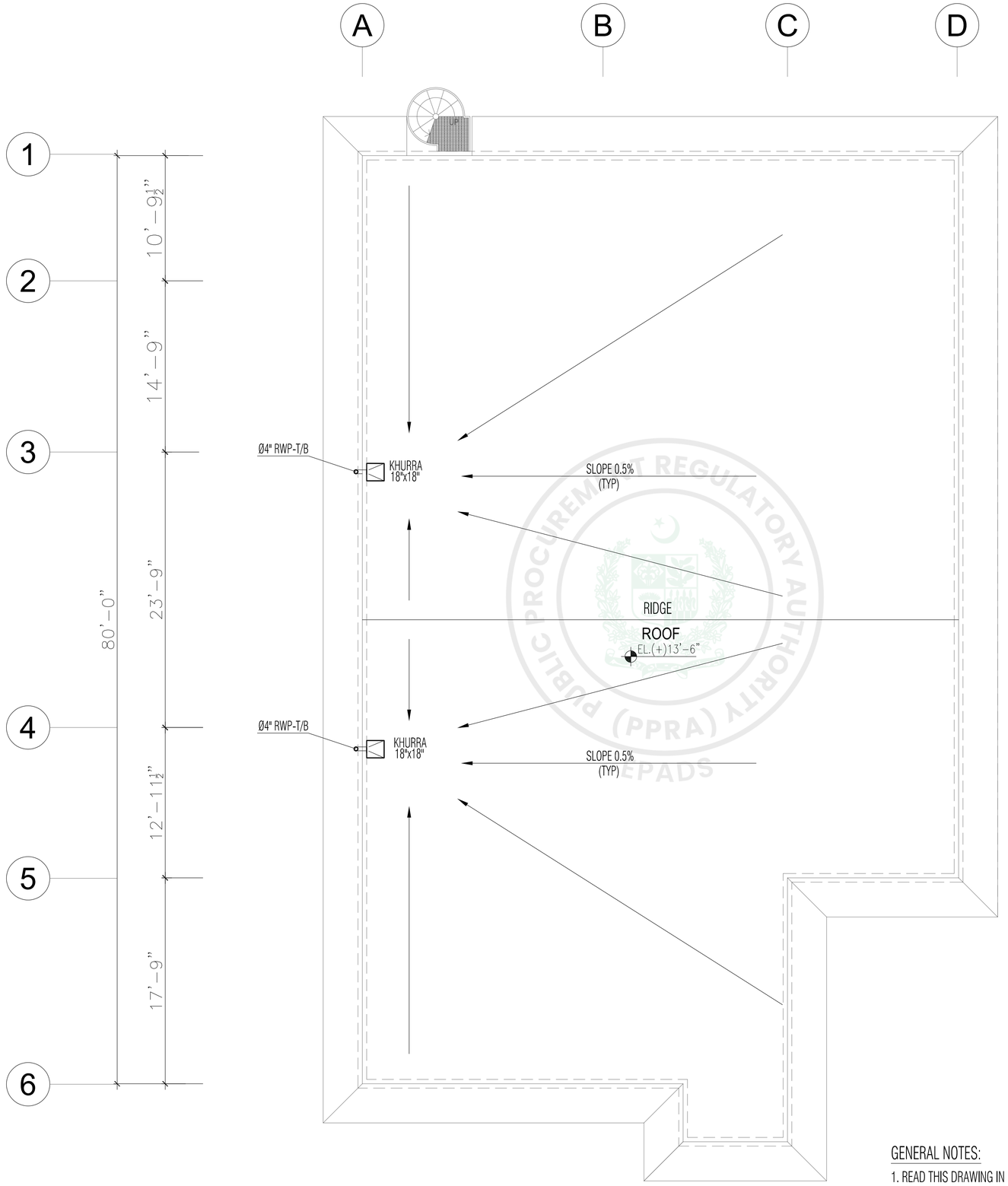
GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
GROUND FLOOR PLAN
PLUMBING WORKS
(WATER SUPPLY & SANITARY DRAINAGE LAYOUT)

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

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GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
ROOF PLAN
(STORM DRAINAGE LAYOUT)

NESPAK — NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

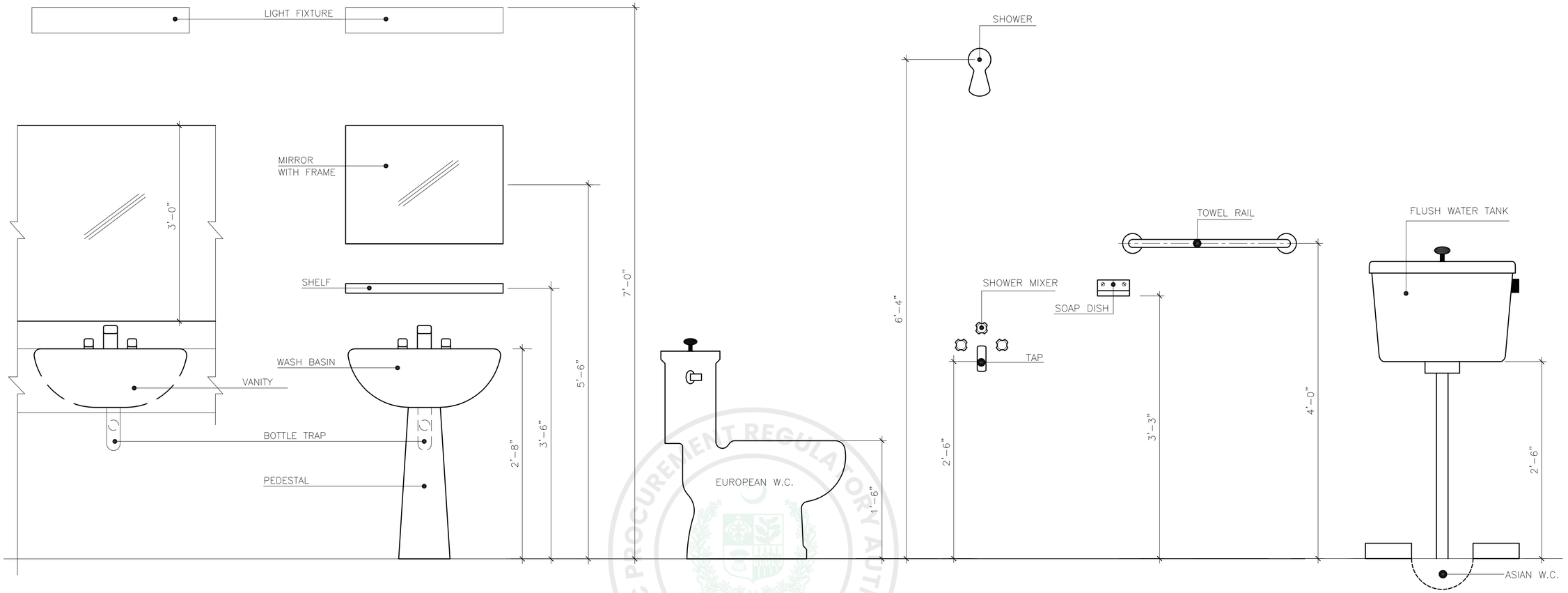
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DATE: OCT, 2026

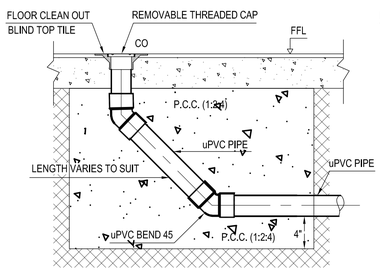
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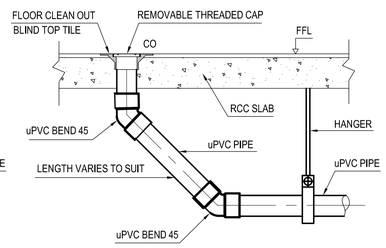
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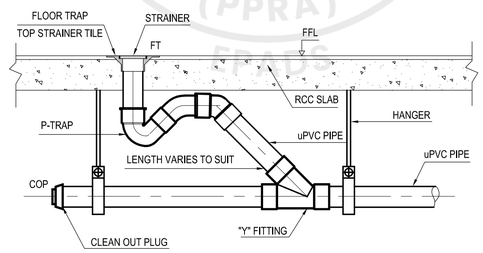
TOILET FIXTURE DETAILS



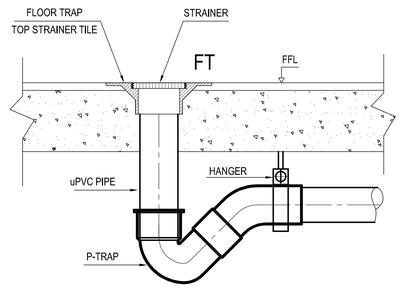
FLOOR CLEAN OUT



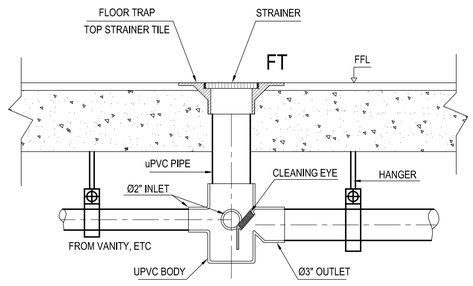
FLOOR CLEAN OUT IN FALSE CEILING



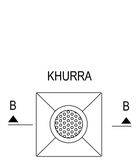
CLEAN OUT PLUG IN FALSE CEILING

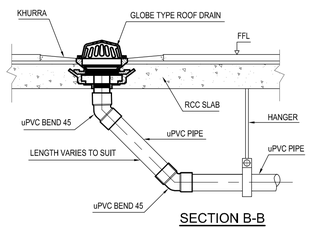


FLOOR TRAP



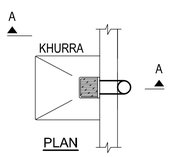
MULTY FLOOR TRAP

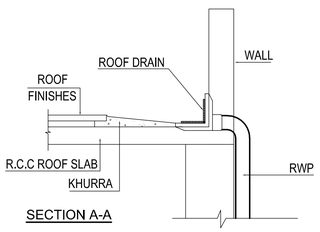




SECTION B-B

GLOBE TYPE ROOF DRAIN
(IN SLAB ABOVE FALSE CEILING)





SECTION A-A

ANGLE TYPE ROOF DRAIN
(ADJACENT TO DUCT WALL)

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GUN AND COUNTRY CLUB

25 & 100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD
MISCELLANEOUS DETAILS
PLUMBING WORKS

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

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100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

GUN AND COUNTRY CLUB

CONSTRUCTION DOCUMENT
VOLUME - III-B

MISCELLANEOUS DETAILS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

NATIONAL ENGINEERING SERVICES
PAKISTAN (PVT.) LTD. ISLAMABAD

ARCHITECTURAL DETAILS

ABBREVIATIONS

AD	ALUMINUM DOOR
AL	ALUMINUM
ANO	ANODIZED
CG	CLEAR GLASS 5mm THICK
CP	COMMERCIAL PLY
CW	CURTAIN WALL
D	DOOR
DH	DOOR HANDLE
DL	DOUBLE LEAF
DS	DOUBLE SWING
DW	DEODAR WOOD
EL	STRUCTURAL LEVEL
EQ	EQUAL
F	FIXED GLASS
FD	FLUSH DOOR
FFL	FINISHED FLOOR LEVEL
FG	FROSTED GLASS
FL	FAN LIGHT
FO	FOLDING DOOR
FP	FLY PROOFING
FV	FORMICA VENEERED
GI	GALVANIZED IRON SHEET
GL	GLASS
GW	GLASS WINDOW
LD	L DROP (SLIDING BOLT)
LL	LEAD LINING
LP	LACQUER POLISH
LW	LASANI WOOD
MDF	MEDIUM DENSITY FIBER BOARD
MS	MILD STEEL
O	OPENABLE
P	PAINT
PC	POWDER COATED
PD	PANELED DOOR
PW	PARTAL WOOD
RG	REFLECTIVE GLASS
RS	ROOLUP SHUTTER
S	SLIDING
SBS	STEEL BOX SECTION
SD	STEEL DOOR
SDL	STEEL DOOR LOUVERED
SL	SINGLE LEAF
SS	STAINLESS STEEL
STL	STAINLESS STEEL/ALUMINIUM LINING
SW	SPIDERWEB
TH	TOP HUNG
TG	TINTED GLASS
TS	TWO SHUTTERS (ONE PANELED & ONE FLY PROOF)
V	VENTILATOR
VG	VIEWING GLASS
W	WINDOW

PROJECT: 100 METER SHOOTING RANGE GUN AND COUNTRY ISLAMABAD		TITLE: ABBREVIATIONS	
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD	SCALE: N.T.S	NO.: 5086/322/C/J01	REV.: 0
	DATE: SEP.,2022		

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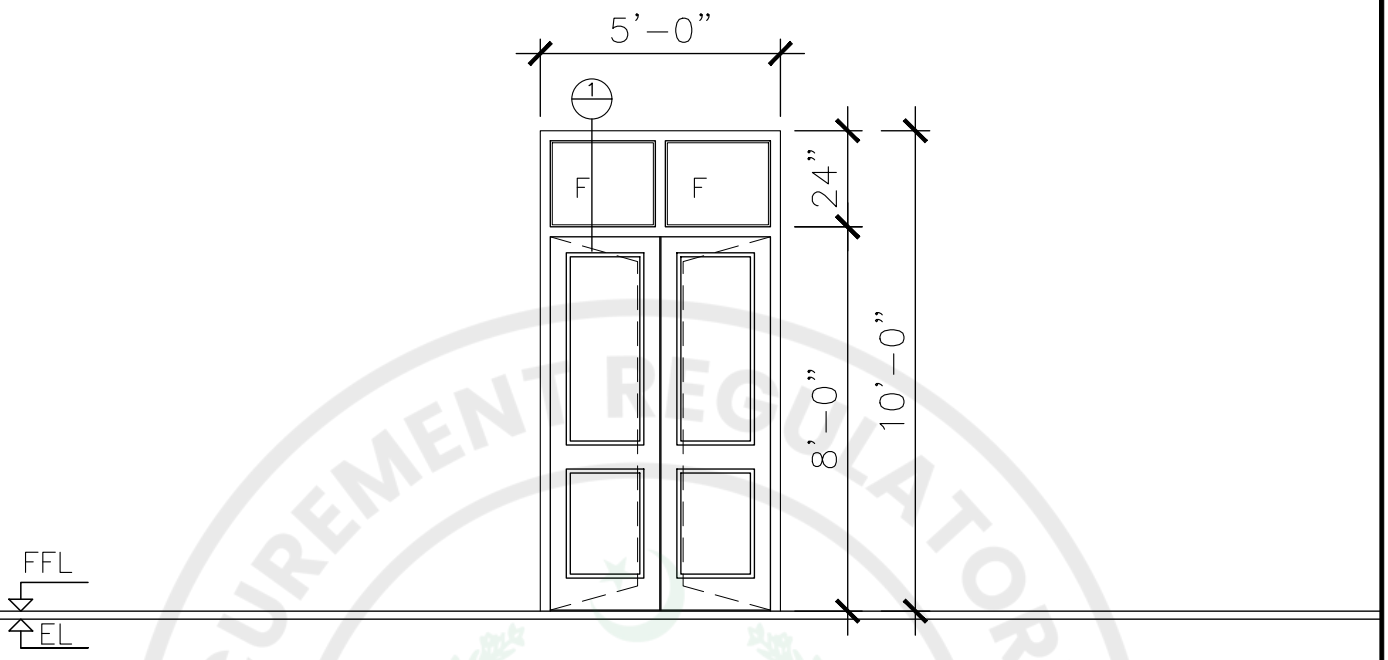
HARDWARE

DC	HYDRAULIC DOOR CLOSER
DH	DOOR HANDLE
DSH	DOUBLE SWING HINGE
F1	CRANK SHAPED HOLD FAST
H1	BRASS HINGE 5" LONG WITH STEEL BEARING
H2	STEEL HINGE 6" LONG (HEAVY DUTY) WITH STEEL BEARING
H3	FLOOR MOUNTED DOOR CLOSER(CONCEALED TYPE)
H4	STRIP HINGE
KP	6" x WIDTH OF DOOR SHUTTER KICK PLATE BOTH SIDES(BRUSHED STAINLESS STEEL)
L	ALUMINUM DOOR LOCK
L1	HEAVY DUTY CYLINDRICAL LOCK SETS,WITH HANDLES KEY OPENABLE OPERATION OUTSIDE (IMPORTED OF EUROPEAN ORIGIN)
L2	HEAVY DUTY CYLINDRICAL LOCK SETS,WITH HANDLES KEY OPENABLE OPERATION OUTSIDE WITH PUSH BUTTON LOCKING ARRANGEMENT INSIDE (IMPORTED OF EUROPEAN ORIGIN)
L3	HEAVY DUTY CYLINDRICAL LOCK SETS,WITH HANDLES KEY OPENABLE OPERATION OUTSIDE/INSIDE (IMPORTED OF EUROPEAN ORIGIN)
L4	DOOR LATCH FOR TOILET DOORS
L5	SLIDING BOLT
PB	PUSH BAR 6" HIGH WIDTH OF SHUTTER
PH	PANIC HARDWARE
PP	4"x 8" PUSH PLATE BRUSHED STAINLESS STEEL.
TB	6" LONG BRASS TOWER BOLT HEAVY DUTY

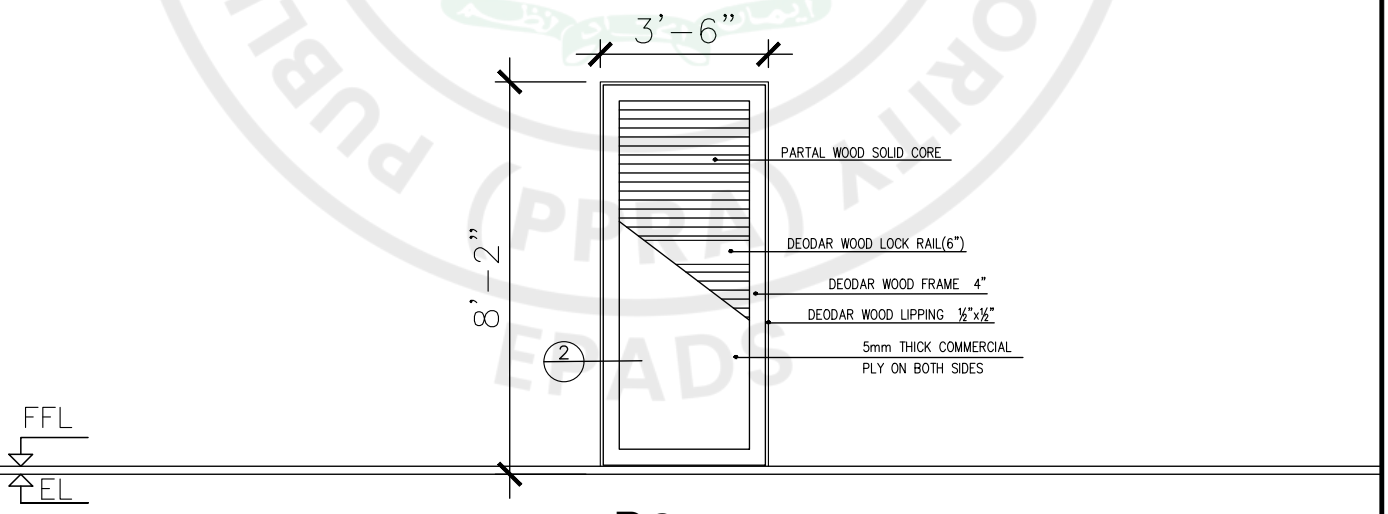
PROJECT: 100 METER SHOOTING RANGE GUN AND COUNTRY ISLAMABAD		TITLE: HARDWARE	
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD	SCALE: N.T.S DATE: SEP.,2022	NO.: 5086/322/C/J02	REV.: 0

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ARCHITECTURAL DETAILS



D1

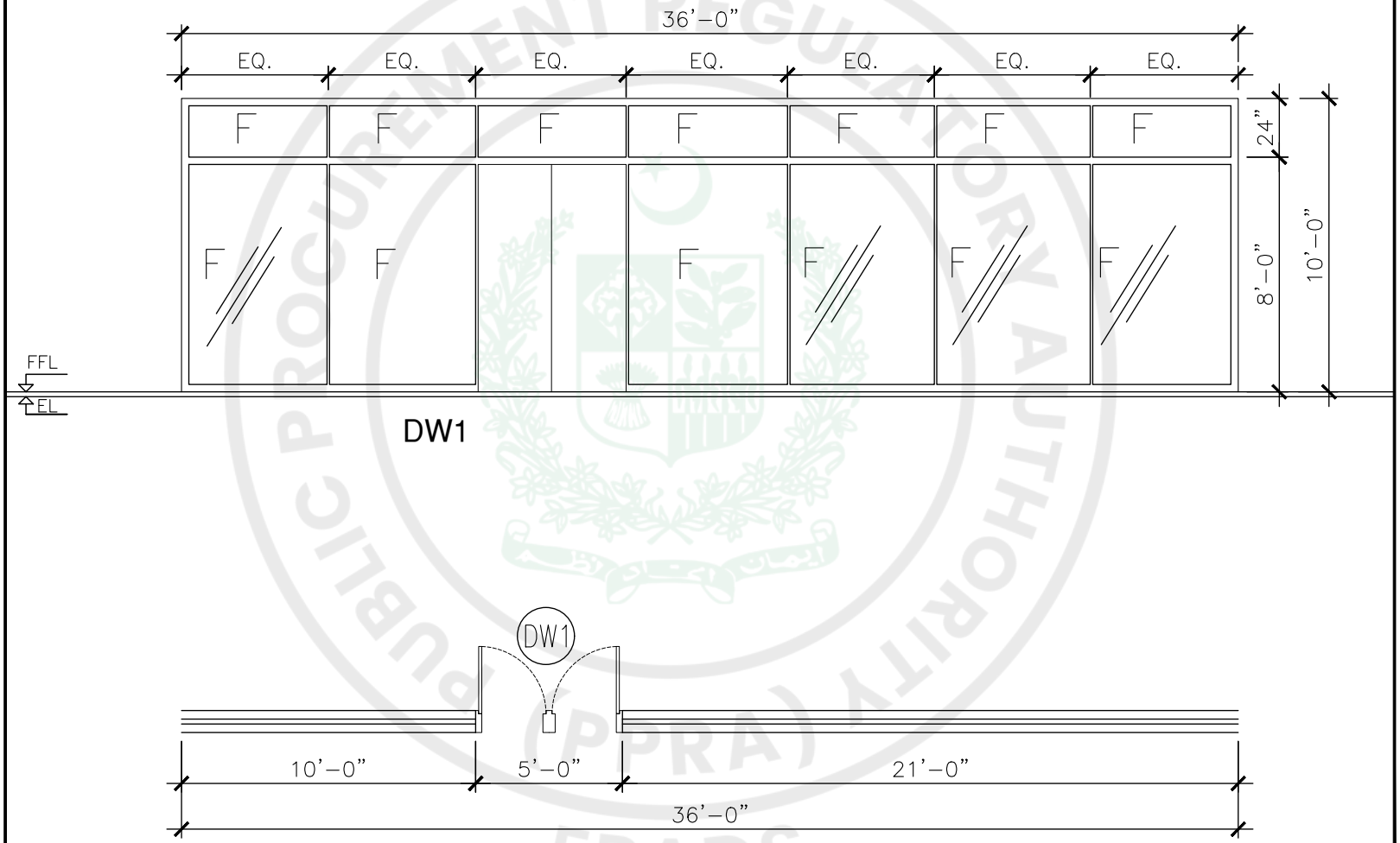


D2

PROJECT: 100 METER SHOOTING RANGE GUN AND COUNTRY ISLAMABAD		TITLE: DOOR ELEVATIONS D1 – D2	
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD	SCALE: N.T.S	NO.: 5086/322/C/J03	REV.: 0
	DATE: SEP.,2022		

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ARCHITECTURAL DETAILS

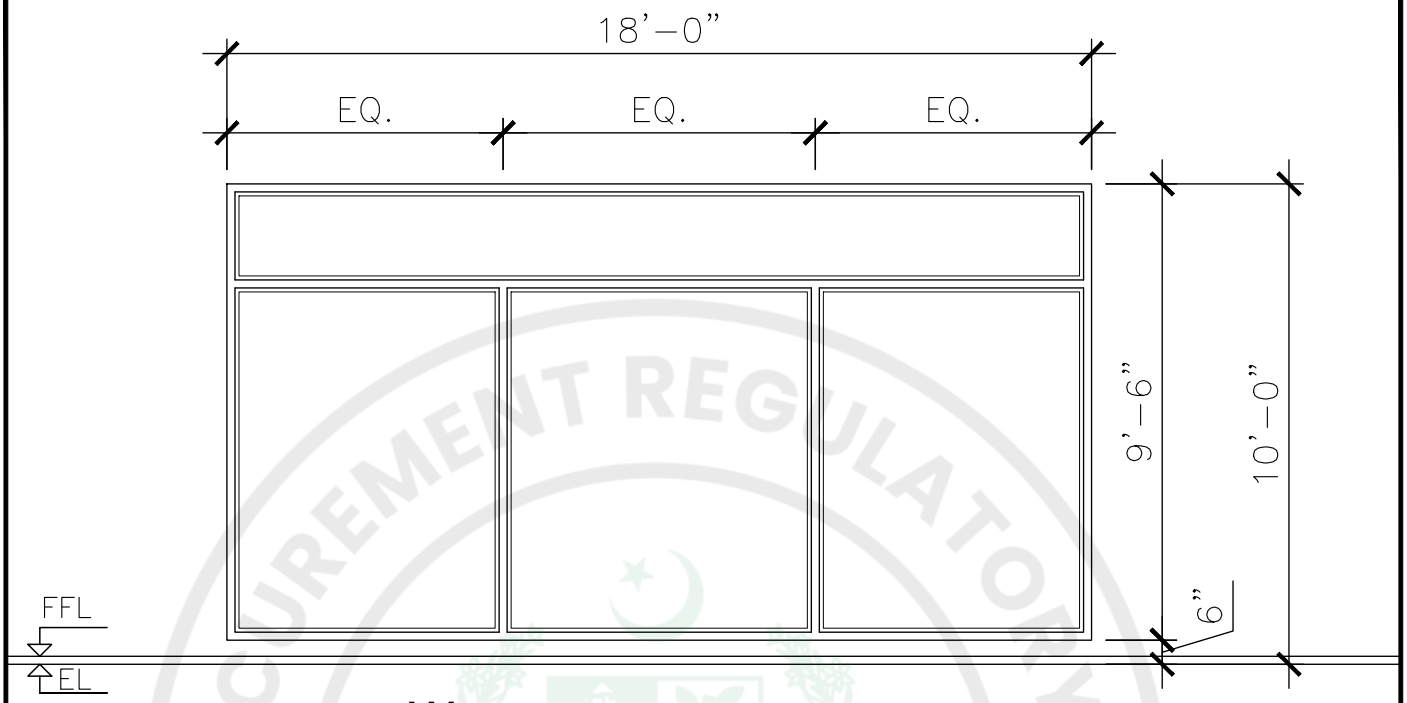


PROJECT: 100 METER SHOOTING RANGE GUN AND COUNTRY ISLAMABAD		TITLE: DOOR WINDOW ELEVATION DW1 – DW2	
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD	SCALE: N.T.S	NO.: 5086/322/C/J04	REV.: 0
	DATE: SEP.,2022		

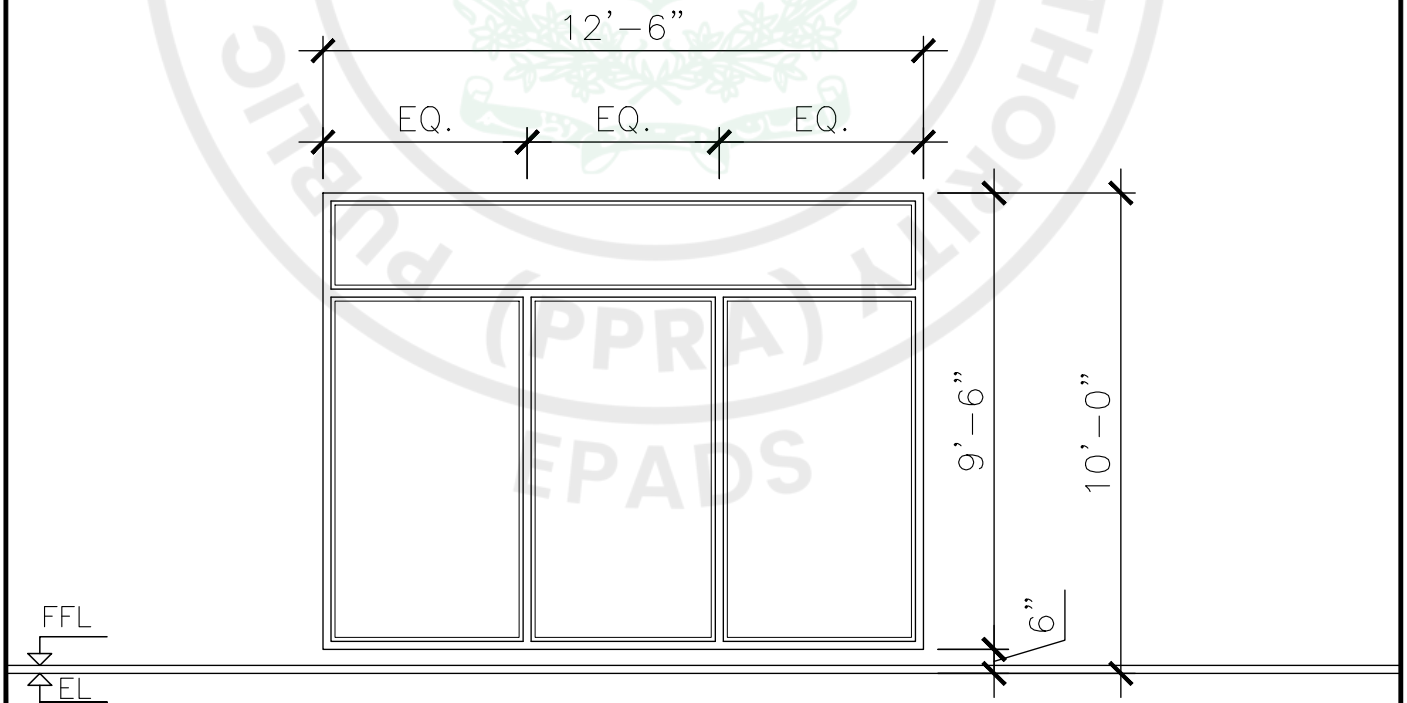
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ARCHITECTURAL DETAILS



W1

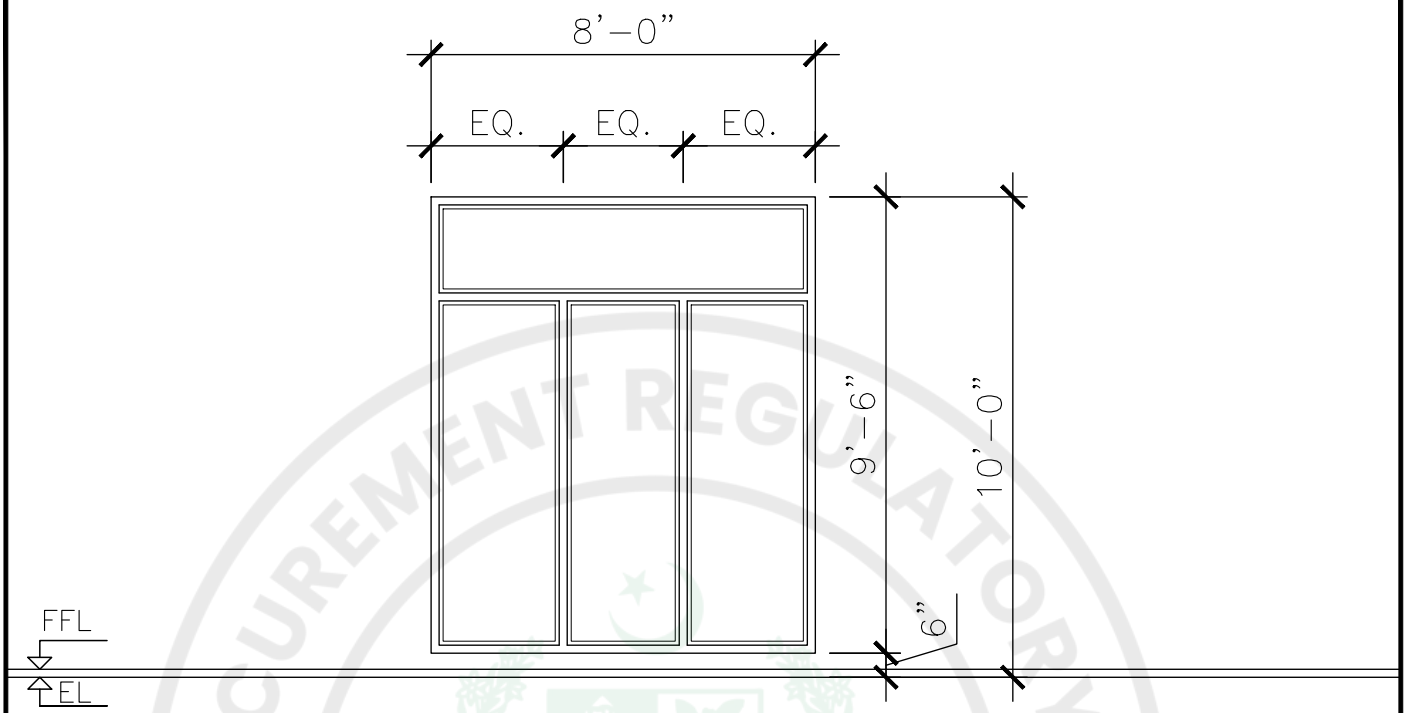


W2

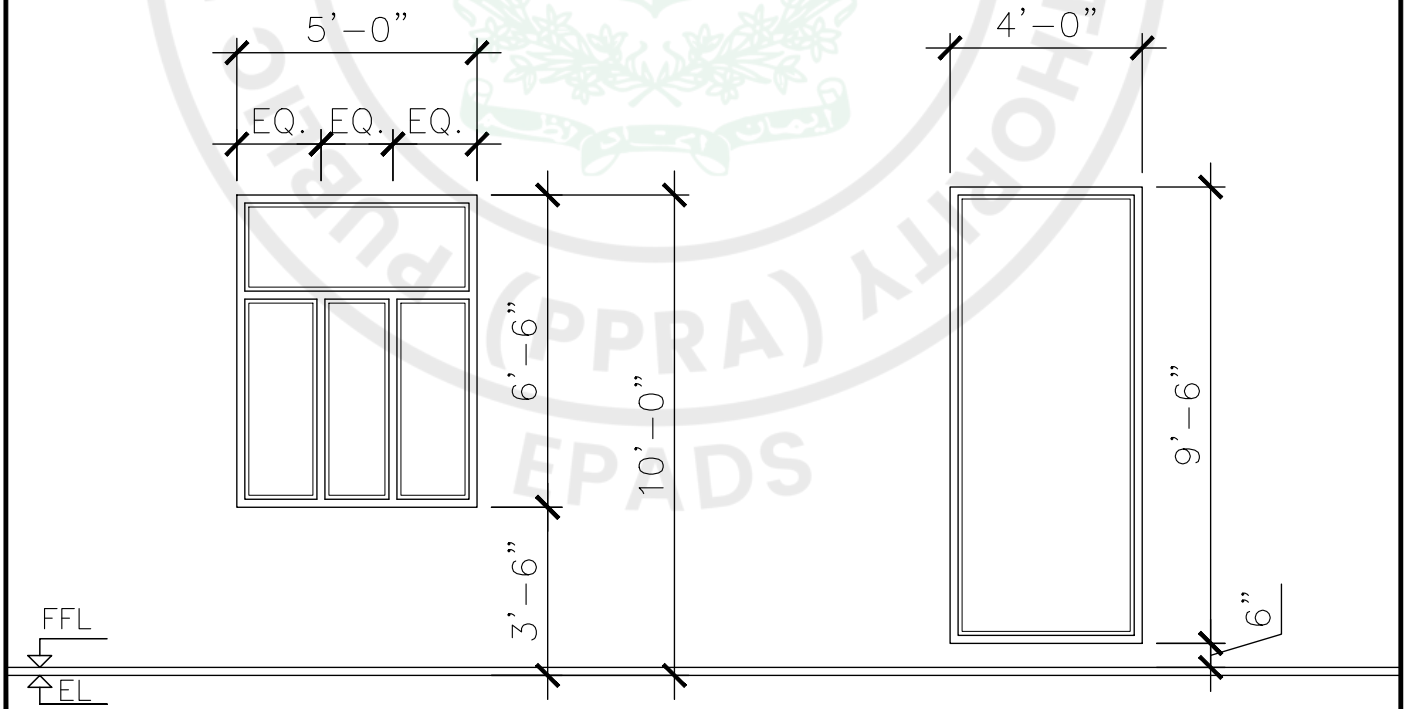
PROJECT: 100 METER SHOOTING RANGE GUN AND COUNTRY ISLAMABAD		TITLE: WINDOW ELEVATIONS W1 – W2	
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD	SCALE: N.T.S	NO.: 5086/322/C/J05	REV.: 0
	DATE: SEP.,2022		

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ARCHITECTURAL DETAILS



W3



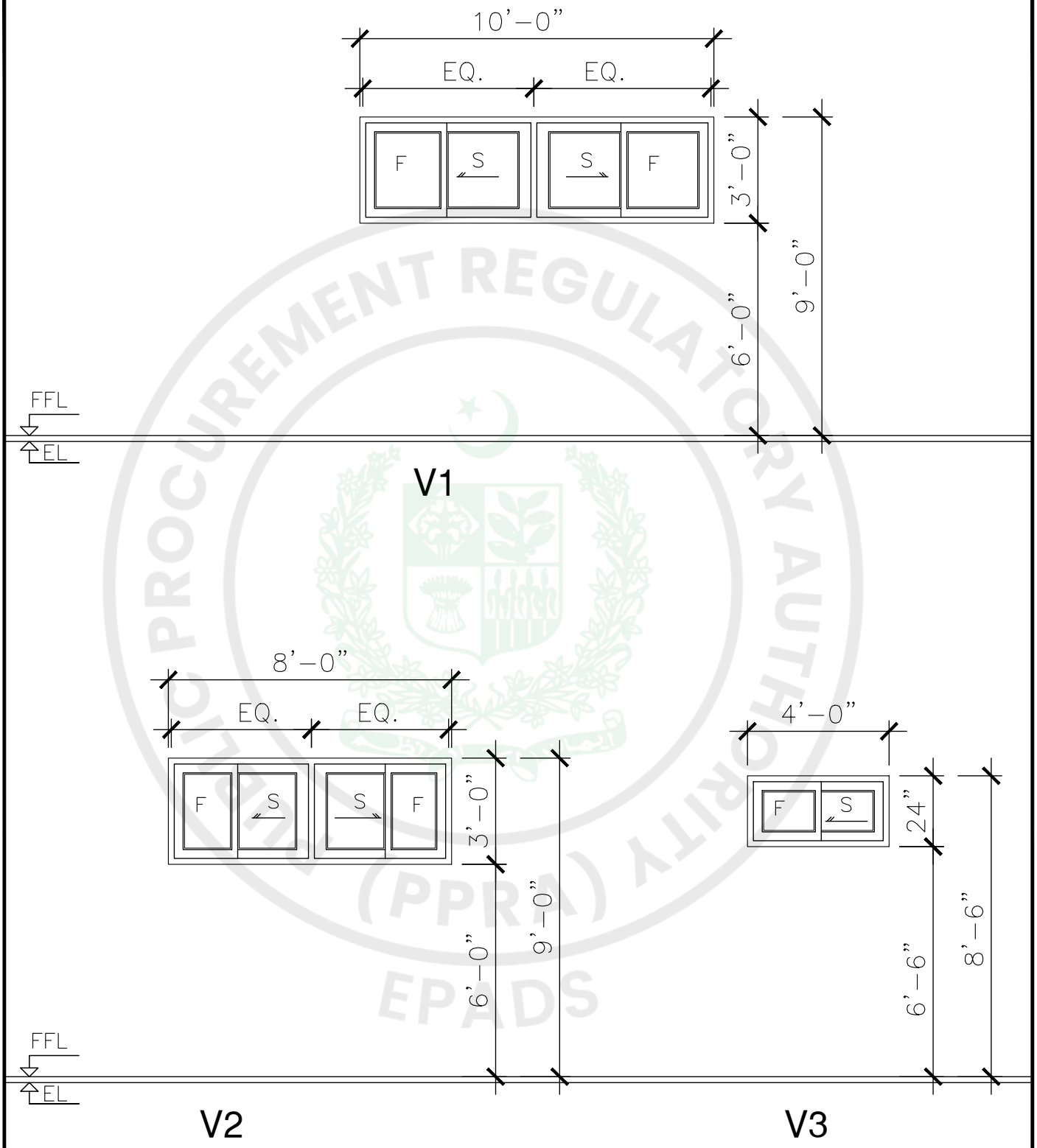
W4

W5

PROJECT: 100 METER SHOOTING RANGE GUN AND COUNTRY ISLAMABAD	TITLE: WINDOW ELEVATIONS W3 - W4 - W5	
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD	SCALE: N.T.S DATE: SEP.,2022	NO.: 5086/322/C/J06 REV.: 0

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ARCHITECTURAL DETAILS



PROJECT: 100 METER SHOOTING RANGE GUN AND COUNTRY ISLAMABAD		TITLE: VENTILATOR ELEVATIONS V1 - V2 - V3	
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD	SCALE: N.T.S	NO.: 5086/322/C/J07	REV.: 0
	DATE: SEP.,2022		

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ARCHITECTURAL DETAILS

	LOCATION/ROOM NAME	FLOOR									WALL					DADO					SKIRTING					CEILING					
A	GROUND FLOOR	GRANITE TILES –	GRANITE SLABS WITH GROOVES	MARBLE TILES –	MARBLE SLABS WITH GROOVES	PORCELAIN TILES –	MATT CERAMIC TILES –	VINYL TILES –	TERRAZZO TILES –	TERRAZZO CAST IN SITU LAID IN PANELS	MATT ENAMEL PAINT	PLASTIC EMULSION PAINT	GRANITE TILES	ACCOUSTIC PANELS	TEXTURE COATING	MARBLE TILES HEIGHT– 4'–0"	PORCELAIN TILES HEIGHT– 4'–0"	CERAMIC TILES UPTO CEILING HEIGHT	VINYL TILE	WOODEN TILES	GRANITE 4" HIGH	MARBLE 4" HIGH	PORCELAIN 4" HIGH	VINYL TILES 4" HIGH	WOODEN 4" HIGH	MINERAL FIBER ACOUSTIC TILE	ALUMINIUM TILES FALSE CEILING	GYPSUM BOARD TILES	GYPSUM BOARD SHEETS	WEATHER SHIELD PAINT	PLASTIC EMULSION
1	STEPS		○												○																
2	RECIPTION & WAITING AREA					○						○										○								○		
3	CAFETERIA DINNING AREA					○						○					○													○		
4	CORRIDORS					○						○										○					○					
5	MANAGER OFFICE					○						○										○				○						
6	RELOADING ROOM					○						○										○				○						
7	ISSUE COUNTER & STORAGE					○						○										○				○						
8	LOCKER RM.					○						○										○				○						
9	TOILETS					○					○						○										○					
10																																
11																																
12																																
13																																
14																																
15																																

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

_ _ _ _ _ _ _ _ _ _	PROJECT 100 METER SHOOTING RANGE GUN AND COUNTRY ISLAMABAD	TITLE **SCHEDULE OF FINISHES**	
	NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD	SCALE N.T.S DATE SEP.,2022	NO. 5086/322/C/J08 REV. 0

0-00-00-00

ARCHITECTURAL DETAILS

TYPE	DESCRIPTION	MASONRY OPENING		MATERIAL		FINISHES		HARDWARE								
		WIDTH	HEIGHT	FRAME	SHUTTER	FRAME	SHUTTER	HOLD FAST	HINGES	LOCKS	TOWER BOLTS	PUSH PLATE	KICK PLATE	DOOR CLOSER	DOOR HANDLE	L DROP
D1	PD-DL-FL	5'-0"	10'-0"	DW	DW	LP	LP	F1	H2	L1	TB			DC		
D2	FD-SL	3'-6"	8'-0"	DW	DW	LP	LP	F1	H2	L1	TB			DC		
D3	FD-SL	3'-0"	8'-0"	DW	CP	LP	LP									
D4	UPVC	2'-6"	7'-0"	MS	UPVC	LP	CG									
DW1	AL-DL-FL	36'-0"	10'-0"													
W1	AL-S-FP	18'-0"	9'-6"	AL	AL-GL	PC	PC-TG									
W2	AL-S-FP	12'-6"	9'-6"	AL	AL-GL	PC	PC-TG									
W3	AL-S-FP	8'-0"	9'-6"	AL	AL-GL	PC	PC-TG									
W4	AL-S-FP	5'-0"	6'-6"	AL	AL-GL	PC	PC-TG									
W5	AL-S-FP	4'-0"	9'-6"	AL	AL-GL	PC	PC-TG									
V1	AL-S-FP	10'-0"	3'-0"	AL	AL-GL	PC	PC-TG									
V2	AL-S-FP	8'-0"	3'-0"	AL	AL-GL	PC	PC-TG									
V3	AL-S-FP	4'-0"	2'-0"	AL	AL-GL	PC	PC-TG									

PROJECT

100 METER SHOOTING RANGE
GUN AND COUNTRY ISLAMABAD

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

TITLE

SCHEDULE OF DOORS DOORWINDOWS,WINDOWS,VENTILATOR

SCALE N.T.S

DATE SEP.,2022

NO. 5086/322/C/J09

REV. 0

CAD by M.SALEEM

0-00-00-00

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GUN & COUNTRY CLUB, ISLAMABAD

CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

FINANCIAL BID

BIDDING DOCUMENTS
VOLUME - IV

LETTER OF FINANCIAL BID
PREAMBLE TO BOQ
BILL OF QUANTITIES

NOVEMBER, 2026

National Engineering Services Pakistan (Pvt) Limited
NESPAK House Sector G-5/2, Islamabad, Pakistan
Phone: +92-51-9221910 - 13 Fax: +92-51-9221914
Email: Islamabad@nespak.com.pk
http://www.nespak.com.pk

Clearance Code		Doc No.		Rev No.	

LETTER OF FINANCIAL BID AND BILL OF QUANTITIES

TABLE OF CONTENTS

BID AND APPENDICES	Page No.
Letter of Financial Bid	LFB-1 of 2 to LFB 2 of 2
Preamble to Bill of Quantities	Preamble to BOQ – 1 of 2 to 2 of 2
Summary of Cost	Summ-1of 1
Bill of Quantities	As per Contents

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Letter of Bid - Financial Proposal

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

Place this Letter of Bid - Financial Proposal in the second envelope marked "FINANCIAL PROPOSAL".

The Bidder must prepare the Letter of Bid - Financial Proposal on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text is to help Bidders in preparing this form.

Date of this Bid submission:
Request for Bid No.:
Name of Project.:
Alternative No.:

To: **Manager Administration**
Gun & Country Club, Islamabad

We, the undersigned Bidder, hereby submit the second part of our Bid, the Financial Proposal

In submitting our Financial Proposal we make the following additional declarations:

(a) **Bid Validity Period**: Our Bid shall be valid for the period specified in **BDS 18.1** (as amended, if applicable) from the date fixed for the bid submission deadline specified in **BDS 24.1** (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(b) **Total Price:** The total price of our Bid is:

In case of only one lot, the total price of the Bid is _____;

In case of multiple lots, the total price of each lot is: Nil;

In case of multiple lots, total price of all lots (sum of all lots): Nil;

(c) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: [*insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity*].

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

(d) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed.

Name of the Bidder:

Name of the person duly authorized to sign the Bid on behalf of the Bidder:

Title of the person signing the Bid:

Signature of the person named above:

Date signed

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

**: Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

BILL OF QUANTITIES

(to be signed by the bidder)

PREAMBLE

1. **FOR SCHEDULED ITEMS, THE BIDDER SHALL QUOTE PERCENTAGE ABOVE OR BELOW ON THE AMOUNT PUT TO BID AND GIVEN IN THE SUMMARY OF COST OF ESTIMATE.**

2. **FOR NON-SCHEDULED ITEMS, THE BIDDER SHALL QUOTE HIS RATES IN BILL OF QUANTITIES.**

3. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.

4. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices as given in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.

5. The rates and prices as given in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore, all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.

6. A rate or price shall be entered against each Non-Scheduled 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.

7. 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, or the same shall be determined by the Engineer in accordance with Clause 12, of Conditions of Contract.

8. In case of any discrepancy in description or unit of any scheduled item provided in the BOQ with the description or unit of any scheduled item provided in Punjab MRS Schedule of Rates 2026, 2nd Biannual, the description and unit of item as provided in Punjab MRS Schedule of Rates 2026, 2nd Biannual shall prevail.

9. General directions and description 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 Bill of Quantities.

10. Punjab MRS Specifications and the Technical Specifications shall be applicable for schedule Items and the non-schedule items, respectively. "Ref Spec. No. indicates the specification section number which as a whole or part (for which the Engineer shall be the sole judge) of these specifications are to be followed during execution of the item of work in accordance with the applicable drawings.

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11. Complete description of items of works in the BOQ, general directions, conditions and limitations of works, location and place of works, applicable methods, means to be adopted, type and quality of materials, use of tools, plant, and machinery are not necessarily mentioned in the BOQ. Theses shall be referred to in accordance with the Drawings and Technical Specifications.

12. The Bidder may ensure himself of the correctness of quantities and application of the individual items of works as per the Drawings, Technical Specifications and Contract Documents.

13. Notwithstanding provision of Clause 13 of Conditions of Contract, no claim for extra payment will be admissible on account of anticipated profit or variation in overheads expenditure for the works not actually performed nor will any adjustment in the unit rate set forth in the Estimate be made because of any increase or decrease in the quantities indicated therein.

14. Unless otherwise stated in the text of the BOQ, the quantities have to be measured and paid in accordance with the Measurement and Payment Clauses given in the relevant Technical Specifications or in accordance with implied meaning of the specifications. Any special method of measurement stated in the text of estimate is limited to the concerned items only.

15. 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 13.4 of Conditions of Contract.

16. The following abbreviations for units have been used in Bill of Quantities:

Units	**Abbreviations**
Running feet	Rft.
Square feet	Sft.
Cubic feet	Cft.
Kilogram	Kg.
Per Number	Each, Number, No.
Lump Sum Job	Job, Lot

Authorized Signature and official Seal: _____

Name: _____

Date: _____

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CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

BILL OF QUANTITIES

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2.	Electrical Works	E-1 of 7 to E-7 of 7
3.	Plumbing & Firefighting Works	P-1 of 5 to P-5 of 5
4.	Furniture Works	F-1 of 2 to F-2 of 2

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GUN & COUNTRY CLUB, ISLAMABAD

CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

SUMMARY OF COST

Sr. No.	DESCRIPTION	SCHEDULED ITEMS (Rs.)	NON-SCHEDULED ITEMS (Rs.)
1	CIVIL WORKS	85,557,917.00	
2	ELECTRICAL WORKS	3,684,217.00	
3	PLUMBING WORKS	771,093.00	
4	FURNITURE WORKS		
	Total Amount (Rs.)	**90,013,227.00**	
	PREMIUM IN THE FORM OF %AGE ABOVE / BELOW ON SCHEDULED ITEMS		
	AMOUNT OF PREMIUM QUOTED (Rs.)		
	AMOUNT OF SCHEDULED ITEMS AFTER ADDING PREMIUM AMOUNT		
	QUOTED BID PRICE (SCHEDULED + NON-SCHEDULED)		

A. Total Quoted Amount(Scheduled + Non-Scheduled) = Rs. _____
(In Figures)

In Words:

(_____)

Note-1: The Bidder shall carry over the quoted amount to Letter of Financial Bid page **LFB-1.**

B. PROVISIONAL SUM:

i. DAB Fee of the Employer (one-half of the total remunerations) } **Rs. 1,000,000/-**

Note-2: The Bidder shall not consider the amount stated against the Provisional Sum while quoting his Bid. All Provisional Sums amount are to be expended in whole or, in part at the direction and discretion of the Engineer in accordance with Sub-Clause 13.4 of the General Conditions except with respect to DAB fees and the expenses in accordance with GC Clause 21.

Authorized Signature and Official Seal: _____

Name: _____

Date: _____

GUN & COUNTRY CLUB, ISLAMABAD

CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

BILL OF QUANTITIES

CIVIL WORKS

S. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
		SCHEDULED ITEMS				
		EARTH WORK (EXCAVATION & EMBANKMENT)				
SRC- 1	03-21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) lift upto 5 ft (1.5m) 1) a) By Manual (iii) Hard soil or Soft murum	1000 Cft	47.62	19,124.15	910,635.00
SRC- 2	03-15(i)	Filling, watering and ramming earth under floors. i) with surplus earth from foundation, etc.	1000 Cft	28.01	8,155.50	228,436.00
SRC- 3	10-61	Supplying and placing of Structural Pad / Engineered fill comprising sand and sub base aggregate material in specified propotion to improve the bearing capacity of soil and to be placed in equal layers of maximum 6" thick compacted to 95% of modified procotor AASHTO density using specified compaction methodology, complete in all respect, as approved by the Engineer Incharge. a) Compaction by Plate Compactor i) 50% sand and 50% aggregate	100 Cft	166.85	4,104.30	684,802.00
		CONCRETE				
SRC- 4	06-02	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100Cft	21.65	14,076.50	304,756.00
SRC- 5	06-05	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate)				
	(h)	Ratio 1:3:6	100 Cft	0.65	41,542.30	27,002.00
	(i)	Ratio 1:4:8	100 Cft	54.17	36,029.50	1,951,682
SRC- 6	06-06	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.). a.) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects.				

S. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
		(3) Type C (nominal mix 1: 2: 4)	Per Cft	22,778.00	773.55	17,619,922.00
		(c) (iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(3) Type C (nominal mix 1: 2: 4)	Per Cft	10,658.00	618.10	6,587,710.00
SRC- 7	06-12	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars).				
		(b) Deformed bars ii) (Grade-60)	100kg	1,215.00	30,827.85	37,455,838.00
		BRICK WORK				
SRC- 8	07-05 (i)	Pacca brick work in 1:4 C/S mortar in Ground floor	100 Cft	108.80	43,384.35	4,720,217.00
		ROOFING				
SRC- 9	09-46	Providing and applying torch-on plain water proofing bitumenous membrane of specified thickness (made of Roof-Grip/ Euro Bit) duly lapped/connected by heating with Torch over ps-6 primer i/c preparation/smoothen the surface complete in all respect as approved and directed by the Engineer Incharge a) Plain i) 3 mm thick	Per Sft	5,920.00	126.35	747,992.00
		FLOORING				
SRC- 10	10-35	Providing and laying superb quality Porcelain glazed tiles of Master/ Stile brand or approved equivalent manufacturer, **skirting/dado** of specified size, Color and Shade with adhesive/ bond over 1/2"thick (1:2) cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge				
		a) Full body Glazed tiles (iii) 600mm x 600 mm (24"x24")	Per Sft	850	459.75	390,788.00
SRC- 11	10-46	Providing and laying superb quality Porcelain glazed **tiles flooring** of Master/ Stile brand or approved equivalent manufacturer of specified size in approved design,Color and Shade with adhesive/bond over 3/4"thick (1:3) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge. a) Full body Glazed tiles				
		(iii) 600mm x 600 mm (24"x24")	Per Sft	4,570	459.60	2,100,372.00

S. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SRC- 12	10-14	Cement concrete tiles laid in 1:2 cement mortar, over 3/4" (20 mm) thick bed of cement mortar 1:2:- (a) 12"x12"x1" (300 x 300 x 25 mm)	100 Sft	10.95	21,784.90	238,545.00
SRC- 13	10-62	Providing and laying Marble flooring / Skirting of required size and specified thickness, with adhesive bond over 3/4" thick bedding of (1:2) cement sand mortor i/c the cost of matching sealer,cutting, grinding and chemical polishing, complete in all respect as approved and directed by the Engineer Incharge. ii) Jet Black 3/4" thick (size 12"x24"/12"x36")	Sft	865.00	535.92	463,571.00
SRC- 14	10-48	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge iii) 3/4" thick Granite	Per Sft	216.00	1,147.25	247,806.00
		iv) 1/2" thick Granite	Per Sft	115.00	958.25	110,199.00
SRC- 15	10-50	Extra for Bevelling charges of marble edge in approved design complete in all respects i/c the cost of Carborandam disc as approved and directed by the Engineer Incharge.	Per Rft	140.00	39.90	5,586.00
SRC- 16	10-51	Extra cost for making hole in Marble slab for fixtures, Sink,burners,basin Vanities i/c cost of bevelling of internal edge as approved and directed by the Engineer Incharge.	Each	4.00	980.70	3,923.00
		SURFACE RENDERING				
SRC- 17	11-9(b)	Cement plaster 1:4 upto 20' (6.00 m) height: b) ½" (13 mm) thick	100 Sft	94.51	4,958.80	468,656.00
SRC- 18	11-9(c)	Cement plaster 1:4 upto 20' (6.00 m) height: c) ¾" (20 mm) thick	100 Sft	326.55	6,641.30	2,168,717.00
SRC- 19	11-12	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C.roof slabs only, upto 20' height. b) 1:3	100 Sft	54.65	5,676.55	310,223.00

S. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
		DOORS AND WINDOWS				
SRC- 20	12-05	Providing and fixing 1st class solid wood wrought joinery in panelled or panelled and glazed doors and windows of specified thickness with 1" thick solid wood panels with step and 1-1/2"x2-1/2" beadings all around the panels i/c the cost of Tower bolt and handles complete in all respect (Excluding the cost of sliding bolt,lock and chowkats (frame), etc.) as approved and directed by the Engineer Incharge a) Deodar wood Door (i) 2" thick (50 mm)	Sft	210	3,196.90	671,349.00
SRC- 21	12-13	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	Per Sft	85.00	909.20	77,282.00
SRC- 22	12-18	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc b) Deodar wood	Per Sft	295.00	1,075.45	317,258.00
SRC- 23	26-49	Providing and fixing of factory made Premium uPVC Door of ESTA, Zealcon or approved equivalent with door frame (chowkat) Comprising of 3mm (min) Wall Thickness Outer Frame 60mm X 64 mm, Leaf Sash 100mm X 60 with Reinforced 1mm GI coated rust free Steel and 20mm Panel having Grooves on Both sides, weldable TPV or EPDM Gasket including hinges, T-lock, tower bolt, handle & all hardware's and necessary fittings complete in all respect as per approved specifications and as approved by the Engineer incharge.	Per Sft	55.00	1,719.55	94,575.00
SRC- 24	12-64	Providing and fixing Imported Mortise Lever Handle Lock with back plate (Machine, Cylinders, Lever Handles (Pair) and backplate (Pair) of approved quality, design & finish, including the cost of all accessories to complete the job as shown on drawing and as per specification, complete in all respect, as approved and directed by the Engineer Incharge	Each	8	4,569.55	36,556.00

S. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SRC- 25	25-52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x¾"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge	Per Sft.	851.00	1,290.60	1,098,301.00
SRC- 26	25-53	Providing and fixing Aluminum Fly screen comprising of Fiber / Aluminum wire guaze (Malasian) fixed in aluminum frame of approved manufacturer / powder coated of size 1-1/2"x1/2" and 1.6mm thick with rubber gasket i/c cost of Hardwares as approved and directed by the engineer incharge. complete in all respect.	Per Sft.	425.50	538.30	229,047.00
		PAINTING AND VARNISHING				
SRC- 27	13-9	Bitumen coating to plastered or cement concrete surface:-				
		i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	100 Sft	126.71	2,825.10	357,968.00
SRC- 28	13-31	Preparing surface and painting emulsion paint :				
		a) 1st coat	100 Sft	81.75	1,791.60	146,463.00
		b) 2nd & each subsequent coat.	100 Sft	163.50	1,395.55	228,172.00
SRC- 29	11-40	Providing & applying 1.5 mm thick fine textured high quality Sandtex Coating formed of special Acrylic base protective decorative coating of approved colour & shade with trowel having top class finish over well cleaned plastered surface i/c preparation and cleaning the surface,complete in all respect as approved and directed by the Engineer Incharge	Per Sft	2,750.00	84.20	231,550.00
SRC- 30	13-44	Preparing surface and Lacquar polish to reveal wooden grains by application of multiple coats of wood sealer , sand papering with different no of sandpapers and Lacquar to make glossy surface finish i/c the cost of cotton, thinner, wood sealer complete in all respects as approved and directed by the Engineer Incharge. (ii) Glossy Finish	Per Sft	1,180.00	294.65	347,687.00
SRC- 31	13-46	Providing and applying wall putty of 2mm thickness over plastered surface (new surface) to prepare the surface even and smooth complete in all respect.	100 Sft	341.75	576.25	196,933.00
		IRON WORKS				
SRC- 32	25-57	Providing and fixing M.S. flat ½"x1/8" (13mm x 3mm) grill including ¾" x 1/8" (20 mmx3 mm) M.S. flat frame, inwindows of approved design, including painting three coats, complete in all respects.	Per Rft	851.00	629.95	536,087.00

S. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SRC- 33	25-10	Fabrication of heavy steel / Iron work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders,tanks, etc., including cutting, drilling, revitting, handling,assembling and fixing, but excluding erection in position.	100 Kg	747.52	2,312.60	1,728,710.00
SRC- 34	25-11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100 Kg	747.52	1,535.90	1,148,113.00
		MISCELLANEOUS				
SRC- 35	26-43	Spraying termite proofing by using liquid FMC/ Biflex/ Terminex Exin/ Ms Hextar or equivalent @ specified suspension concenterate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect .as approved by the Engineer Incharge	Sft	16,630.00	12.70	211,201.00
SRC- 36	25-63	Providing and fixing 5.00 ft dia MS spiral stair comprising of triangular steps made of 1-1/4"x1-1/4"x3/16" duly welded with 3/8"MS squar bars steps, supported/welded with main vertical post of 4" dia GI pipe (Medium Quality) embeded in PCC in ground i/c the cost of pipe railing comprising of 2" dia MS pipe of 16 SWG supportrd with 2 no 5/8" squar bars in each step, i/c fixing & painting complete in all respects as approved and directed by the Engineer Incharge(Measurement will be made above ground level).	P. Rft	20.00	7,664.35	153,287.00
					TOTAL (SCHEDULED) =	**85,557,917.00**
		NON-SCHEDULED ITEMS				
		(Ref. Spec No. 2250, 3000, 4600, 6560, 6700)				
SRC- 37	NS-01	Providing and fixing dampa ceiling aluminium, 2' x 2' tiles/ strip ceiling including all accessories i.e of approved design (imported or approved equivalent manufacturer) perforated with diffusion membrane, with approved Aluminum adjustable suspension system complete in all respects as per design shown on drawings.	Sft	3,820		
SRC- 38	NS-02	Provide & fix expended metal 1/2" to 3/4", 22 guage fixed walls or on area as required and specified on drawings with steel nails with washers complete in all respects.	Sft	4,757		

S. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SRC- 39	NS-03	Providing and applying 3 coats of synthetic enamel paint of approved make, colour and shade on internal/external plastered walls, including surface preparation by thorough cleaning, scraping of loose paint, filling cracks and imperfections with approved filler/putty, sanding smooth, application of one coat of suitable primer/undercoat and two finishing coats of enamel paint, including all necessary materials, labour, scaffolding, tools and equipment, complete in all respects as per drawings, specifications and instructions of the Engineer.	Sft	260.00		
SRC- 40	NS-04	Prepare and apply externally 'Jotun' or equivalent and approved paint system comprising one coat of Oil Primer 'Penetrating Primer' and two finishing coats of Pure Acrylic based exterior grade product '2X UV Protected Colours, Flexible , Breathable, Anti Carbonization Coating, Dirt Resistant and Temperature Reduction Weather Resistant paint with anti fade coloursof approved colours all construction based on Manufacturer's recommendation'Jotan	Sft	29,910.00		
SRC- 41	NS-05	Providing, supplying and laying Dhaka grass/turf of approved variety and quality over prepared ground, including dressing and leveling of soil, removal of weeds and debris, supply and spreading of fertile topsoil/manure where required, laying and proper joining of grass turf, watering, rolling and initial maintenance until proper establishment, complete in all respects as per drawings, specifications and instructions of the Engineer.	Sft	25,500.00		
SRC- 42	NS-06	Supply and installation of Wood Plastic Composite (WPC) ceiling panels, manufactured from weather-resistant composite material, designed to be durable, moisture-proof, termite-proof, and low maintenance. Installation shall include all necessary fixtures, fasteners, and accessories, and complete in all respects as per drawings and as directed by The Engineer's instructions.	Sft	1,650.00		
					TOTAL NON-SCHEDULED (Rs.)	

PUBLIC PROCUREMENT REGULATORY AUTHORITY EPADS

GUN & COUNTRY CLUB, ISLAMABAD

CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

BILL OF QUANTITIES

ELECTRICAL WORKS

Sr. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
		SCHEDULED ITMES				
		Conduits & Pipes				
	2	Supply and erection of PVC pipe for wiring recessed in walls, including inspection boxes, pull boxes, hooks, cutting jharries, and repairing surface, etc., complete with all specials.				
SRE-01	ii	20 mm i/d	Rft.	2,300	120.45	277,035.00
SRE-02	iii	25 mm i/d	Rft.	1,200	140.15	168,180.00
SRE-03	vi)	50 mm i/d	Rft.	100	241.95	24,195.00
	105	P/F PVC doublelayer Switch kit Faceplate with specified switch holes i/c the cost of switches / sockets / dimmer made of Hi-Life / Bush / Schenider or approved equvilent manufacturer, screws complete as approved and directed by the Engineer Incharge				
	a)	One way Gange Switch (Small)				
SRE-04	(i)	01 Gange	Each	5	463.20	2,316.00
SRE-05	(ii)	02 Gange	Each	3	704.40	2,113.20
SRE-06	(iii)	Three pin Light Plug 10/13 Amp	Each	47	754.45	35,459.15
SRE-07	(iv)	Telephone / TV/Datacable socket	Each	1	662.45	662.45
SRE-08	(vii)	Bell push	Each	2	598.20	1,196.40
SRE-09	(viii)	Three Pin Power Plug 15-32 Amp	Each	6	924.55	5,547.30
	b)	One way Gange Switch (Large)				
SRE-10	(i)	04 Gange	Each	5	981.25	4,906.25
SRE-11	(ii)	05 Gange	Each	6	1,151.35	6,908.10
SRE-12	(iii)	06 Gange	Each	3	1,405.85	4,217.55
	C)	Two way Gange Switch Small				
SRE-13	(i)	01 Gange One Way/ Two Way	Each	2	775.85	1,551.70
		Wiring				
	8	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only):-				
	c)	450/750 volts, PVC insulated:				
SRE-14	ii)	1.5 mm sq (3/0.029")	Per Rft.	9,000	42.75	384,750.00

Sr. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SRE-15	iii)	2.5 mm sq (7/0.029")	Per Rft.	3,600	63.10	227,160.00
SRE-16	iv)	4 mm sq (7/0.036")	Per Rft.	1,700	83.40	141,780.00
		LT Cables				
	11	Supply and erection of PVC insulated, PVC sheathed copper conductor cables for service connection, in prelaid pipe/G.I. wire/trenches, etc.(rate for cable only):				
	d)	Four core, 600/1000 volt non armoured cable:				
SRE-17	vii)	16 mm (7/0.064")	Per Rft.	300	951.05	285,315.00
	10	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 600/1000 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):				
SRE-18	ii)	6 mm sq (7/0.044")	Per Rft.	300	102.6	30,780.00
		Fans and Exhaust Fans				
	102	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas/G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
SRE-19	a)-i	Plastic body - 10" dia	Each	1	5,235.50	5,235.50
SRE-20	a)-ii	Plastic body - 12" dia	Each	1	5,685.50	5,685.50
		b) Steel body				
SRE-21	i	12" sweep	Each	1	5,516.75	5,516.75
	103	Providing and fixing Pakistan Energy Label NEECA approved Copper winded wall bracket Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
SRE-22	ii)	24" Sweep dia	Each	1	10,703.00	10,703.00
	104	Providing and fixing Pakistan Energy Label NEECA approved Copper winded Ceiling Fan i/c the cost of necessary cable and hardware for connection as approved and directed by Engineer Incharge.				
SRE-23	(iii)	56" dia	Each	33	10,180.20	335,946.60

Sr. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	86	Suppling,Installation and comissioning of MCCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ SWITZERLAND or approved equivalent manufacturer in prelaid DBs and Panels i/c the cost screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
	a)	Single Pole				
SRE-24	(iii)	6-63 Amp (10 KA)	Each	28	1,459.05	40,853.40
	b)	Four Pole				
SRE-25		15-100 Amp(18KA)	Each	1	23,154.90	23,154.90
	90	P/F wall mounted DB (Distribution Board) made with 16SWG sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter,Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer P/F wall mounted DB (Distribution Board) made with 16SWG Sheet Incharge (Breakers will be Paid Separately).				
	(a)	6" deep				
SRE-26	(i)	75~100A	P.CFT	1	18641.05	18641.05
	94	Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand Complete in all respect as approved and directed by the Engineer Incharge				
SRE-27	i)	Selector Switch	Each	1	1,228.80	1,228.80
SRE-28	(iii)	Digital Voltmeter (0-600 Volt)	Each	1	1,012.80	1,012.80
SRE-29	(iv)	Digital Ammeter (0-9999 Amp)	Each	1	1,228.80	1,228.80
SRE-30	(v)	LED Phase Indicator	Each	3	622.80	1,868.40
SRE-31	(vi)	Push Button ON/OFF (Make: Schneider/Himal/Eqv.)	Each	3	631.15	1,893.45

Sr. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
		CCTV				
SRE-32	133	Supply & Installation of NVR (Network Video Recorder) for Real Time View of specified Channels, video and Audio channels,Supported protocoles: ONVIF,RTSP etc, Internal HDDs mount support:2/4/8 or higher as per site requirement,Monitor outputs,(HDMI,4K Ultra HD), VGA (Video Graphic array), Support Raid 5/6, Embeded OS, Data Encryption, Min. 1 x RJ-45 1000Mbps Ports, with PC Video Monitoring Supply & Installation of NVR (Network Video Recorder) for Real Time CCTV Software, Web Server, Embedded Server complete in all respect. made of AXIS Europe/NOVAS Europe/Avigilon by Motrola USA /Huawei, Pollo Australia or equivalent approved manufacturer and directed by the Engineer Incharge.				
	(iii)	16-Channel	Each	1	116,388.70	116,388.70
SRE-33	134	(HDD) of Specified Capacity for CCTV System Backup. made of Seagate Supply, Installation and Connection of Surveillance Grade Hard Drives/ WD, Pollo Australia or equivalent approved manufacturer and directed by Engineer Incharge.				
	(iii)	10 TB	Each	2	69,327.00	138,654.00
SRE-34	139	Supply, installation & connecting IP based Camera of specified resolution, 1/3" Progressive scan, fixed lens 2.8 mm AF, Max resolution 2592 x 1920 mm, Codec H-265, Camera with 25 fps, day night (ICR), ONVIF, IP-66, Max IR distance 30 meter, WDR Smart Analytics, i/c the cost of mounting bracket, mounting accessories/ materials. Make: - Honey Well / Bosch / Norden, Pollo Australia or equivalent, as approved as directed by the Engineer Incharge.				
	(b)	4 Mega Pixel				
	(i)	Fixed Bullet Type	Each	12	71,512.50	858,150.00

Sr. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
		Fire Alarm System				
SRE-35	176	Supply, Installation and commissioining with Addressable Break Glass unit, (Manual Call Point) with key type EN-54 having a built in short circuit isolator and microprocessor to ensure a response time of max. 1 second,having an indication LED flash after pressing the button to acknowledge the activation and a key operation facility for testing purposes. made of Honeywell/ Bosch/ Eaton (UK) or as approved and directed by the Engineer Incharge.	Each	2	18,588.90	37,177.80
SRE-36	178	Supply, installation and commissioning of Addressable Optical Smoke Detectors EN-54, incorporating an LED indication located in labyrinth with in the housing of the detector. Sensing unit, adjustable via software between 0-90 seconds having built in short circuit isolators on both inputs. make Honeywell/ Bosch/ Eaton (UK), or equivalent inclulding the cost of all other accessories as required, approved and directed by the Engineer Incharge.				
		ii) Dual Detector	Each	6	12,540.90	75,245.40
SRE-37	174	Supply, Installation and commissioning of wiring for Signals RS 485, Shielded Copper Cable , in prelaid conduit . Make 3M / Belden, or equivalent as approved and directed by the Engineer Incharges.	Rft	800	80.70	64,560.00
SRE-38	181	Supply, installation and commissioning of wired/wireless Addressable Micro processor based Fire Alarm Control Panel (FACP) capable of PC interface with window conforming to EN-54, consisting of specified loop circuits having 240 devices per loop, indicating circuits, built in power supply with back up batteries, alarm and trouble indication, silence alarm and reset system, general alarm and reset system, general alarm facility. Made of Eurotech Fire UK, Notifire USA, Simplex USA. complete in all respect as approved and directed by Engineer Incharge.				
	(i)	FACP 1-Loop	Each	1	294,577.15	294,577.15

Sr. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
SRE-39	118	Providing, making & testing/commissioning of Rod type Earth point comprising of 5/8" dia. (16 mm dia) 10 ft long copper coated M.S. rod driven in ground duly fixed with clamp with Tinned earth test link copper plate (300x50x10mm), i/c the cost of brass nuts,spacers, bolts washers lugs etc but excluding the cost of copper strand & manhole. as approved and directed by Engineer Incharge (Rod Type Earthing).	Each	2	21,210.95	42,421.90
				TOTAL (SCHEDULED) =		**3,684,217.00**
		NON-SCHEDULED ITMES				
		Light Fixtures Ref. Specs Sec. 8001, 8150 Supply, installation, testing & commissioning of following LED Light fixtures complete with Electronic ballast (unless mention otherwise), lamps, lamp holders,SPD, Earth Protection and mounting accessories etc., as per specification, complete in all respects, as per drawings and specification, complete in all respect. Lighting fixtures sample must be submitted to consultant for approval. PF> 0.9, CRI>80, 110 Lumens/watt. Operating Life 30,000hrs, IEC Certified. Note: Refer light fixtures drawings/Schedule for complete light fixtures details.				
SRE-40	NS-01	Supply, installation, testing and commissioning of 20W LED Spot Light, complete with LED source, driver and mounting bracket, suitable for 220–400 V AC, 50/60 Hz, with power factor ≥0.95, luminous efficacy suitable to provide the required illumination, IP66 ingress protection and IK10 impact protection, complete with all accessories and necessary connections for a complete installation (Shooting Range and Ammunition Storage)	No.	72		
SRE-41	NS-02	15-20 W Surface/ ceiling Mounted LED downlight with bult in integrated driver and frosted glass diffuser	No.	50		
SRE-42	NS-03	7-10 W Surface/ ceiling Mounted LED downlight with bult in integrated driver and frosted glass diffuser	No.	66		
SRE-43	NS-04	7-10 W Mirror Lght complete in all respect	No.	1		

Sr. No.	RAWALPINDI MRS 2nd Bi-Anual-2026	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
		AIR CONDITIONER				
SRE-44	NS-05	Providing, installation, testing and commissioning of Split Type Wall Mounted Air Conditioner, DC Inverter, in the specified place. The job includes connection of copper piping of out door unit fitted on roof or angle iron frame, making inter connection of the unit with suitable sizes of wire also piping for condensed water etc as required approved make.				
	a)	2.0 Ton (24000 BTU)	Job	5		
		LED				
SRE-45	NS-06	Supply and installation of 65'' Led display as approved by the engineer incharge.	Each	2		
					TOTAL NON-SCHEDULED (Rs.)	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

GUN AND COUNTRY CLUB ISLAMABAD

CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

BILL OF QUANTITIES

PLUMBING & FIREFIGHTING WORKS

Sr. No.	MRS-RWP 2nd Bi Annual-2026 Chapter/item	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	SCHEDULED ITEMS:					
		SANITARY FIXTURES AND FITTINGS				
	19 / 3	Providing and fitting imported floor mounted Europeon coupled set of Water Closet (WC) and flushing Cistern of PORTA/ Marachi brand (full size) manufacturer i/c the cost of CP/rubber connection, thimble, seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.				
SRP-01	B iii.	One Piece PORTA HD 102N Toilet Cito with Hydraulic Seat Cover	Each	1	59,851.10	59,851
SRP-02	19 / 5	Providing and fitting white glazed earthen ware water closet, squartter type, with separate foot rest.	Each	2	8,761.75	17,524
SRP-03	19/12/b-i	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete , white	Each	2	5,804.95	11,610
	19/46	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi/ waste pipe Fittings make of Dadex /Popular/Beta or approved equivalent manufacturer, conforming to BS 4514 / BS 5255 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge.				
SRP-04	a)	P-Trap (i) 4" dia	Each	2	960.20	1,920
SRP-05	19 / 4 / ii *page 118*	Providing and fixing, flushing bend of PVC , 4cm (1-1/2")	Each	2	394.65	789
	19 / 7	Providing and fitting glazed earthen ware wash hand basin/vanity 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
SRP-06	(v)	Under Counter Vanity Basin	Each	3	13,047.55	39,143
SRP-07	19 / 13	Providing and fixing, chromium plated soap dish.	Each	3	981.60	2,945

Sr. No.	MRS-RWP 2nd Bi Annual-2026 Chapter/item	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	19 / 9 page 122	Supply and fixing of Soap Dispensor including all other cost of required fittings & required accessories complete in all respect as approved & directed by the Engineer incharge				
SRP-08	(ii)	Stainless steel	Each	1	4,229.40	4,229
	19 / 10 page 122	Providing/fixing U-shape 1-1/4" dia Stainless Steel Grab bar of 14 SWG thickness and specified length for safety grip i/c the cost of Stainless Steel brackets,rawal plugs and hardware as approved and directed by Engineer Incharge.				
SRP-09	(ii)	18" long	Each	2	3,785.50	7,571
SRP-10	19 / 15	Providing and fixing, chromium plated toilet paper holder.	Each	1	1,271.85	1,272
SRP-11	19 / 16 / i	Providing and fixing, chromium plated towel rail, 60 cm (24") long, and 2 cm (¾") dia	Each	1	1,337.20	1,337
SRP-12	19 / 17	Providing and fixing looking glass 55x40 cm (22"x16") size and minimum 5 mm thick, first quality.	Each	3	1,546.20	4,639
SRP-13	19 / 24-ii	Providing and fixing chromium plated bib cock 1.5cm (1/2")	Each	1	1,588.00	1,588
SRP-14	19 / 25	Providing and fixing chromium plated Tee stop cock 15mm (1/2")	Each	9	2,068.00	18,612
	19 / 49	Providing and fixing CP bath Room Set made of Sonex / Master / Faisal comprising of 3-No Tee stop cocks, lever type Basin Mixer, double Bib Cock, open wall shower, Muslim shower, waste coupling and bottle trap etc. complete in all respect as approved and directed by the Engineer incharge				
SRP-15	ii	Lever Type Basin Mixer	Each	3	6,707.00	20,121
SRP-16	iii	Double Bib Cock	Each	3	1,907.00	5,721
SRP-17	v	Muslim shower	Each	3	2,387.00	7,161
SRP-18	vii	Bottle Trap	Each	3	1,487.00	4,461
SRP-19	19 / 7 / i page 121	Providing and fixing 1.5 cm (½") dia connection, including check nuts, etc, (plastic rubber connection)	Each	3	388.80	1,166

Sr. No.	MRS-RWP 2nd Bi Annual-2026 Chapter/item	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	19 / 53	Supply & Installation of Duel (Electric and Gas Water Heaters) with factory-installed pressure relief valve, adjustable water temperature control thermostate, Copper connections for specific capacity having leaving waterr temprature 140 deg F & working pressure 15 PSI, Ambasador/Canon or approved manufacturer i/c cost of all accessories to complete the job as per specifications and standards & making connection, complete in all respect as approved and directed by Engineer Incharge.				
SRP-20	i	35 Gallons	Each	1	67,323.00	67,323
		WATER SUPPLY PIPES AND FITTINGS				
	23 / 33 / b	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe (Dadex / Popular / Beta or equivalent) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN 8077 - 8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal / External Diameters mentioned). PN20				
SRP-21	i	20mm dia	Rft	10	74.05	741
SRP-22	ii	25mm dia	Rft	100	101.85	10,185
SRP-23	iii	32mm dia	Rft	50	162.10	8,105
SRP-24	iv	40mm dia	Rft	50	247.30	12,365
SRP-25	v	50mm dia	Rft	50	355.30	17,765
SRP-26	vi	63mm dia	Rft	100	554.65	55,465
	23 / 42	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) or approved equivalent manufacturer, i/c the cost of all accessories flanges, nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge.				
SRP-27	a-ii	3/4" dia Brass Threaded Valves	Each	5	3,510.00	17,550
SRP-28	a-iii	1" dia Brass Threaded Valves	Each	3	5,025.60	15,077
SRP-29	a-iv	1-1/4" dia Brass Threaded Valves	Each	1	7,039.20	7,039
SRP-30	a-v	1-1/2" dia Brass Threaded Valves	Each	1	9,930.00	9,930

Sr. No.	MRS-RWP 2nd Bi Annual-2026 Chapter/item	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	23 / 44	Providing and fixing heavy duty Check Valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK), Scon (Pakistan) or approved equivalent manufacturer i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all Providing and fixing heavy duty Check Valve of specified diameter and respect as approved and directed by the Engineer Incharge				
SRP-31	a-iii	1" dia Brass Threaded Valves	Each	1	5,269.20	5,269
	23 / 45	Supply & installation of heavy duty Brass PN-16 air Vents of specified size provided at the highest points (Pipe Risers) to expel air as approved and directed by the Engineer Incharge, Automatic				
SRP-32	a-ii	3/4 inches	Each	2	1,896.00	3,792
		SOIL, WASTE AND VENT PIPES & FITTINGS				
	19 / 44	Providing, fixing, testing and commissioning of (Unplasticized Polyvinyl Chloride Nikasi /SWV pipe, Dadex /Popular /Beta or approved equivalent manufacturer ,plain/Bell Ended/ ZJoints conforming to BS4514/ BS5255-EN1329 including the cost of specials and Solvents complete in all respects ,as per drawings & specifications and /or as approved and directed by the Engineer Incharge.				
SRP-33	iii	50mm	Rft	30	103.95	3,119
SRP-34	iv	82mm	Rft	60	160.60	9,636
SRP-35	v	110mm	Rft	50	254.30	12,715
SRP-36	vi	160mm	Rft	100	493.40	49,340
	19 / 46	Providing, fixing, testing and commissioning of µ-PVC (Unplasticized polyvinyl Chloride) Nikasi / waste pipe Fittings make of Dadex / Popular / Beta or approved equivalent manufacturer, conforming to BS 4514 / BS 5255 including the cost of Solvents complete in all respect as approved and directed by the Engineer Incharge.				
SRP-37	b-i	Multi-Trap 4"	Each	1	1,436.10	1,436
SRP-38	c-ii	Vent Cowel 3"	Each	1	386.10	386
SRP-39	d-i	Clean out 4" Dia	Each	2	441.40	883
SRP-40	d-ii	Clean out 3" Dia	Each	1	354.30	354

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No.	MRS-RWP 2nd Bi Annual-2026 Chapter/item	DESCRIPTION	UNIT	QTY.	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
(a)	(b)	(c)	(d)	(e)	(f)	(g)
	19 / 12 page 122	Providing and Fixing of SS 304 Floor Drain, complete in all respect as approved and directed by Engineer Incharge.				
SRP-41	(i)	4" Diameter	Each	3	1,254.95	3,765
	21 / 5	Constructing gully grating chamber, 12"x12", (300x300 mm) complete in all respects:				
SRP-42	a)	with C.I. gully trap, weighing 81 lbs. (36.75 Kg.) frame hinged safety type.	Each	1	17,360.10	17,360
		STORM DRAINAGE PIPES & FITTINGS				
	19 / 44	Providing, fixing, testing and commissioning of (Unplasticized Polyvinyl Chloride Nikasi /SWV pipe, Dadex /Popular /Beta or approved equivalent manufacturer ,plain/Bell Ended/ ZJoints conforming to BS4514/ BS5255-EN1329 including the cost of specials and Solvents complete in all respects ,as per drawings & specifications and /or as approved and directed by the Engineer Incharge.				
SRP-43	v	110mm	Rft	50	254.30	12,715
SRP-44	vi	160mm	Rft	200	493.40	98,680
	19 / 13 page 122	Providing and Fixing of SS 304 Roof / scupper Drain, complete in all respect as approved and directed by Engineer Incharge.				
SRP-45	(i)	4" Diameter	Each	2	1,284.80	2,570
SRP-46	(ii)	6" Diameter	Each	14	1,648.20	23,075
		FIREFIGHTING				
	23 / 54	Providing and fixing of fire extinguishers and fire blanket of following type and capacities complete in all respect as approved and directed by the Engineer Incharge.				
SRP-47		i) Dry Chemical Powder capacity 6 Kg.	Each	2	13,329.60	26,659
SRP-48		ii) CO2 Capacity 5 kg.	Each	2	33,067.20	66,134
					TOTAL (SCHEDULED) =	**771,093.0**

GUN AND COUNTRY CLUB ISLAMABAD

CONSTRUCTION OF 100 METER SHOOTING RANGE AT GUN & COUNTRY CLUB, ISLAMABAD

BILL OF QUANTITIES

FURNITURE WORKS

S.No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	NON-SCHEDULED ITEMS				
SRF-1	**WORKING DESK**				
	Supply and installation of powder coated MS frame with MDF based wilsonart laminate table top. MDF Thickness: 16mm MDF based wilsonart laminate cabinetry Premium quality accessories including Handles, Hinges, Channels, locks and other necessary hardware. Note: Colour can be finalized as per client's requirement, price may vary.	Each	2		
SRF-2	**REXINE SOFA**				
	Supply and installation of sofa, fabricated with MS frame for durability and strength. The seat and backrest to be cushioned with high-density foam and upholstered in rexine	Each	20		
SRF-3	**OFFICE REVOLING CHAIR**				
	High-back ergonomic chair with cushioned seat and backrest, lumbar support, premium upholstery, pneumatic height adjustment, 360° swivel, smooth castor wheels, and sturdy 5 star base.	Each	2		
SRF-4	**WAITING CHAIR SINGLE SEATER**				
	Supply of chair with cushioned seat and backrest, durable upholstery, sturdy metal frame, and stable non-revolving legs.	Each	72		
SRF-5	**WAITING CHAIR 04 SEATER**				
	Supply of chair with cushioned seat and backrest, durable upholstery, sturdy metal frame, and stable non-revolving legs.	Each	2		
SRF-6	**CAFÉ CHAIR**				
	Supply and of Cafe Chairs with ergonomically designed seat and backrest, manufactured from high-quality upholstered finish	Each	35		
SRF-7	**COFFEE TABLE**				
	Supply of Round wooden coffee table with wilsonart laminate tabletop and sturdy wilsonart laminate base. Note: Color can be finalized as per client's requirement, price may vary.	Each	4		

S.No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
SRF-8	**CAFE TABLE**				
	Supply of Cafe Tables comprising a high-quality Wilsonart laminate, MDF with laminate finish, supported on a sturdy powder-coated MS frame.	Each	2		
SRF-9	**CENTER TABLE**				
	Supply of Center Table comprising a high-quality MDF based Wilsonart laminate table top, supported on a powder coated MS frame.	Each	1		
SRF-10	**BAR STOOL**				
	Supply of Round Stools, comprising a circular seat with high quality upholstered cushion finished in approved fabric upholstery. Supported on a powder-coated mild steel (MS) frame with integrated footrest and protective floor glides.	Each	7		
SRF-11	**VISITOR CHAIR**				
	Shell Sofa 4-Seater with Double Channel with Steel Legs. Best sitting solution for public places, schools, colleges and commercial areas. Manufactured with pure material which gives it extra life and support.	Each	20		
				TOTAL NON-SCHEDULED (Rs.)	

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

CONSTRUCTION EXPERIENCE

Form EXP - 4.1
General Construction Experience

Bidder's Name: _____
Date: _____
JV Member's Name_____
Bid Reference No. (if any) and title: _____
Page _____of _____pages

Starting Year	Ending Year	Contract Identification	Role of Bidder
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Form EXP - 4.2(a)

Specific Construction and Contract Management Experience

Bidder's Name: _____
Date: _____
JV Member's Name_____
Bid Reference No. (if any) and title: _____
Page _____of _____pages

Similar Contract No.	**Information**			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			PKR equivalent	
If member in a JV or sub-contractor, specify participation in total Contract amount				
EMPLOYER's Name:				
Address: Telephone/fax number E-mail:				

Form EXP - 4.2(a) (cont.)
Specific Construction and Contract Management Experience (cont.)

Similar Contract No.	**Information**
Description of the similarity in accordance with Sub-Factor 4.2(a) of Section III:	
1. Amount	
2. Physical size of required works items	
3. Complexity	
4. Methods/Technology	
5. Construction rate for key activities	
6. Other Characteristics	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Form EXP - 4.2(b)
Construction Experience in Key Activities

Bidder's Name: _____
Date: _____
Bidder's JV Member Name: _____
Sub-contractor's Name (if any): _____
Bid Reference No. (if any) and title: _____

Page _____of _____pages

All Sub-contractors for key activities must complete the information and Qualification Criteria and Requirements, Sub-Factor 4.2.

1. Key Activity No One: _____

	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			PKR equivalent	
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity in the contract (i)	Percentage participation (ii)		Actual Quantity Performed (i) x (ii)
Year 1				
Year 2				
Year 3				
Year 4				
EMPLOYER's Name:				
Address: Telephone/fax number				

	Information
E-mail:	

2. Activity No. Two

3. ……

	Information
Description of the key activities in accordance with Section III:	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Form EXP - 4.2 (c)
Specific Experience in Managing ES aspects

[The following table shall be filled in for contracts performed by the Bidder, and each member of a Joint Venture]

Bidder's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insertfull name]*
Bid Reference No. (if any) and title: *[insert ICB/NCB number and title]*
Page *[insert page number]* of *[insert total number]* pages

1. Key Requirement no 1 in accordance with 4.2 (c): _____

Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Subcontractor ☐
Total Contract Amount			PKR	
Details of relevant experience				

2. Key Requirement no 2 in accordance with 4.2 (c): _____

3. Key Requirement no 3 in accordance with 4.2 (c): _____

4. [PA define key requirements]

Contractor's Representative and Key Personnel Schedule

Bidders should provide the names and details of the suitably qualified Contractor's Representative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Contractor' Representative and Key Personnel

1.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
2.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
3.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
4.	**Title of position:**	
	Name of candidate:	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]

	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
5.	**Title of position:**	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]
6.	**Title of position:** *[insert title]*	
	Name of candidate	
	Duration of appointment:	[*insert the whole period (start and end dates) for which this position will be engaged*]
	Time commitment: for this position:	[*insert the number of days/week/months/ that has been scheduled for this position*]
	Expected time schedule for this position:	[*insert the expected time schedule for this position (e.g. attach high level Gantt chart*]

Form PER-2:
Resume and Declaration
Contractor's Representative and Key Personnel

Name of Bidder

Position [*#1*]: [*title of position from Form PER-1*]		
Personnel information	**Name:**	**Date of birth:**
	Address:	**E-mail:**
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency:*[language and levels of speaking, reading and writing skills]*	
details		
	Address of Employer:	
	Telephone:	**Contact (manager / personnel officer):**
	Fax:	
	Job title:	**Years with present Employer:**

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

Project	**Role**	**Duration of involvement**	**Relevant experience**
[main project details]	*[role and responsibilities on the project]*	*[time in role]*	*[describe the experience relevant to this position]*

Declaration

I, the undersigned *[insert either "Contractor's Representative" or "Key Personnel" as applicable]* , certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Bid:

Commitment	**Details**
Commitment to duration of contract:	*[insert period (start and end dates) for which this Contractor's Representative orKey Personnel is available to work on this contract]*
Time commitment:	*[insert period (start and end dates) for which this Contractor's Representative orKey Personnel is available to work on this contract]*

I understand that any misrepresentation or omission in this Form may:

(a) be taken into consideration during Bid evaluation;

(b) result in my disqualification from participating in the Bid;

(c) result in my dismissal from the contract.

Name of Contractor's Representative or **Key Personnel: [*insert name*]**

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Bidder:

Signature: _____

Date: (day/month/year): _____

Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

No.	**Source of financing**	**Amount (Eq. PKR)**
1		
2		
3		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Past Experience / Contracts

Contracts over *[insert amount]* during the last three years:				
Procuring Agency	Value	Year	Goods/Services Supplied	Country of Destination

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Historical Contract Non-Performance, and Pending Litigation and Litigation History

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

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

☐ Not debarred due to deviation from commitment of Bid Securing Declaration-☐ Not debarred due to non-performance			
Year	**Non-performed portion of contract**	**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and PKR equivalent)**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Reason(s) for nonperformance: *[indicate main reason(s)]*	*[insert amount]*
Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements			
☐ Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.3 as indicated below.			

Year of dispute	**Amount in dispute (currency)**	**Contract Identification**	**Total Contract Amount (currency), ~~US$~~ PKR Equivalent (exchange rate)**

[insert year]	*[insert amount]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]*	*[insert amount]*

☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4.

☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.

Year of award	**Outcome as percentage of Net Worth**	**Contract Identification**	**Total Contract Amount (currency), PKR Equivalent (exchange rate)**
[insert year]	*[insert percentage]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Court/ arbitral award decision: *[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]*	*[insert amount]*

Current Contract Commitments / Works in Progress

Bidders and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments					
No.	Name of Contract	**Employer's Contact Address, Tel, Fax**	**Value of Outstanding Work [Current Eq. PKR]**	**Estimated Completion Date**	**Average Monthly Invoicing Over Last Six Months [Eq. PKR/month)]**
1					
2					
3					
4					
5					

Financial Situation and Performance

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

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

1. Financial data

Type of Financial information in (currency)	**Historic information for previous _[insert number] years, [insert in words] (amount in currency, currency, exchange rate*, PKR equivalent)**				
	Year 1	Year 2	Year 3		
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

* Refer ITA 14 for the exchange rate

3. Financial documents

The Applicant and in case of JV, members of JV shall provide copies of financial statements for *[number]* years pursuant Section III, Qualifications Criteria and Requirements. The financial statements shall:

(a) reflect the financial situation of the Applicant or in case of JV member, and not an affiliated entity (such as parent company or group member).

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

☐ Attached are copies of financial statements[1] for the *[number]* years required above; and complying with the requirements.

[1] If the most recent set of financial statements is for a period earlier than 12 months from the date of Application, the reason for this should be justified.

Average Annual Turnover (Annual Sales Value)

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

Applicant's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member Name: *[insert full name]*
IFP No. and title: *[insert IFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

Annual Turnover Data			
Year	**Amount** **Currency**	**Exchange rate*** **(If applicable)**	**PKR equivalent**
[indicate calendar year]	*[insert amount and indicate currency]*		
		Average Annual Turnover **	

* Refer ITA for date and source of exchange rate.

** Total PKR equivalent for all years divided by the total number of years. See Section III, Qualification Criteria and Requirements, ITA.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS