Standard Bidding Document

REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD: Supply, Installation, Testing & Commissioning of Heating Ventilation & Air Conditioning for Amir Khan Boxing Academy and Hamidi Hall (PACKAGE-5) (Works)

National

Single Stage-Two Envelope

November 26, 2026

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REQUEST FOR BIDS

PROCUREMENT OF CIVIL WORKS

1. The **Pakistan Sports Board (Pakistan Sports Board)** has reserved Funds for the procurement planned for FY **2026-27**. The **Pakistan Sports Board (Pakistan Sports Board)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD: Supply, Installation, Testing & Commissioning of Heating Ventilation & Air Conditioning for Amir Khan Boxing Academy and Hamidi Hall (PACKAGE-5)**" with the reference of "**P210015**".

2. The **Pakistan Sports Board (Pakistan Sports Board)** invites sealed Bids from eligible Bidders for procurement of Works **(REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD: Supply, Installation, Testing & Commissioning of Heating Ventilation & Air Conditioning for Amir Khan Boxing Academy and Hamidi Hall (PACKAGE-5))** 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 amount described in Bid Security Section in Bidding Document in the form of **Pay Order, 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/210015 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, December 7, 2026 11:00 AM**. E-bids will be opened by using **EPADS v2.0** on the same day at **Monday, December 7, 2026 11:30 AM**. 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 registeration 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.org.pk**).

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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 PPRA).

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.

3.6. 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”.

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:

Section I Instructions to Bidders (ITBs)

Section II Bid Data Sheet (BDS)

Section III Evaluation and Qualification Criteria

Section VI Bidding Forms

Section V Eligible Countries

Section VI Works Requirements

Section VII General Conditions of Contract (GC)

Section VIII Particular Conditions of Contract (PC)

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.

6.2. The Procuring agency/Employer shall respond to the request for clarification in accordance with Rule 38 of the Public Procurement Rules 2026.

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. 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 Rule 34 of the Public Procurement Rules 2026 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 Rule 39 of the Public Procurement Rules 2026, 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. 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

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

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

12.7. 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 Public Procurement 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 Rule 37 of the Public Procurement Rules, 2026.

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 Rule 36 of the Public Procurement Rules, 2026 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, the scanned copy of bid security or bid securing declaration, as the case may be, shall be uploaded on E-PADS 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:

16.8.1. if a Bidder:

16.8.1.1. 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

18. **Format and Signing of Bid**

18.1. 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 through EPADS v2.0**

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 Rule 39 of the Public Procurement Rules, 2026. 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 the provisions referred in **ITB 20.1**.

E. OPENING AND EVALUATION OF BIDS

23. **Opening of Bids**

23.1. The Procuring Agency will open bids in accordance with Rule 40 of the Public Procurement Rules, 2026 and 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 Rule 38 of the Public Procurement Rules, 2026.

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. meets the eligibility criteria defined in **ITB 3** and **ITB 4**;

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

26.1.3. has been properly signed;

26.1.4. is accompanied by the required securities; and

26.1.5. 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. 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 currency shall be carried out in accordance with the Public Procurement Rule 2026, 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 Public Procurement 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 Public Procurement Rules 2026 rule no. 26(3).

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

38.1. The procuring agency has the right to reject all bids in accordance with Rule 45 of the Public Procurement Rules, 2026. 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 Rule 48 of the Public Procurement Rules, 2026.

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 PCC, 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 Rule 65 of the Public Procurement Rules, 2026 i.e. Redressal of grievances by the procuring agency and "Redressal of Grievances Regulations 2021".

H. MECHANISM OF BLACKLISTING

46. **Mechanism of Blacklisting**

46.1. The Procuring agency/Employer shall proceed Blacklisting of Bidders/Contractors in accordance with Rule 25 of the Public Procurement Rules, 2026 i.e. Blacklisting and “Blacklisting and Debarment of Bidders or Contractors Regulations 2024.

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Bid Data Sheet

Bids Data Sheet (BDS)

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

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:**Pakistan Sports Board (Pakistan Sports Board)** The subject of procurement is:**REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD: Supply, Installation, Testing & Commissioning of Heating Ventilation & Air Conditioning for Amir Khan Boxing Academy and Hamidi Hall (PACKAGE-5)** Expected commencement date: **Thursday, December 31, 2026**
2.	2.1	Financial year for the operations of the Procuring Agency:**2026-27** Name and identification number of the Contract: **P210015**
3.	3.1	JV/Consortium or AssociationAllowed: **Yes** Number of JV/Consortium Members: **2**
B. Bidding Documents		

4.	**6.2 & 6.4**	The Bidders may seek clarifications through **EPADS v2.0**: Clarification Date: Friday, December 4, 2026 Pre-Bid Meeting: Friday, November 27, 2026 12:00 AM Venue: Sri Nagar Highway, Aabpara
5.	**7.2**	Any addendum, in case issued, shall be published on **Pakistan Sports Board (Pakistan Sports Board)** website and on **EPADS v2.0**.

C. Preparation of Bids

6.	**8.1**	List of documents required along with the bid: No
7.	**9.1**	The qualification criteria to establish the supply / production capability of the bidder. *see Eligibility Criteria*
8.	**11.2**	**Works and Their relateddocuments:** *See section Required Scope of Work*
9.	**11.1**	Price schedule will be provided according to the format defined and acquired. *see section price schedule.*
10.	**11.4**	**Specifications:** *see section of specifications.*
11.	**11.5 & 13.5**	The price shall be **Fixed**. The bid price shall be adjusted in accordance with Appendix provided – Formula for Price Adjustment.

12.	**14.1**	Currency of the Bids shall be : **PKR**
13.	**16.1**	The Bids/Bid Validity period shall be: **90 Days**
14.	**17.1**	The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**
15.	**17.2**	The Bid Security shall be in the form of: **Pay Order, Call at Deposit, Bank Guarantee, Demand Draft**
16.	**15.1**	Alternative Bids to the requirements of the bidding documents willnot be permitted.
D. Submission of Bids		
17.	**18.1 & 21.1**	Bid shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following; **Sri Nagar Highway, Aabpara, Islamabad Capital Territory** Bids that are not submitted on EPADS v2.0 shall be disqualified. The deadline for Bids submission is: **Monday, December 7, 2026 11:00 AM**
E. Opening and Evaluation of Bids		

18.	**24.1**	The Bids opening shall take place on **EPADS v2.0**. Day *:* ***Monday*** Date:***December 07, 2026*** Time *:* ***11:30 AM***
19.	**30.2**	Selection technique adopted will be: **Least Cost Based Selection (LCBS)** *see Evaluation Criteria*
F. Award of Contract		
20.	**41.1 & 41.2**	The Performance guarantee shall: **0%**. The Performance Guarantee shall be acceptable in the form of:**Nil**
21.	**45.1**	Arbitrator shall be appointed by mutual consent of the both parties.
G. Review of Procurement Decisions		
22.	**37**	Grievance against this procurement shall be submitted online on EPADS v2.0.

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
Conflict of Interest (No conflicts of interest in accordance with ITB 3.7)	Yes
Valid registration with Pakistan Engineering Council (PEC) C4 or above having Specialization Codes: ME01	Yes
History of Non-Performing Contracts (Non-performance of a contract did not occur as a result of contractor default since Last 15 years)	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)	Yes
Litigation History (No consistent history of court/arbitral award decisions against the Bidder since 1st January 2011)	Yes

Evaluation Criteria

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %
100

Technical Marks	100
Passing Marks	**70**
1. Construction Capability / Similar Experience	
Successful completion of 04 projects of similar nature and complexity (HVAC Works of Building) of 100 TR capacity each during last 10 years. 05 marks for each project (Quantitative)(Doc Required) Completion of 04 projects having Project Cost of Rs.100 TR Capacity each year during last 10 years **(20)** Completion of 03 projects having Project Cost of Rs.100 TR Capacity each year during last 10 years **(15)** Completion of 03 projects having Project Cost of Rs.100 TR Capacity each year during last 10 years **(10)** Completion of 01 project having Project Cost of Rs.100 TR Capacity each year during last 10 years **(5)**	20
02 projects of similar nature and complexity (HVAC Works of Building) in hand of 100 TR capacity each during last 5 years. (Quantitative)(Doc Required) 02 projects of similar nature and complexity (HVAC Works of Building) in hand of 100 TR capacity each during last 5 years. **(15)** 01 project of similar nature and complexity (HVAC Works of Building) in hand of 100 TR capacity during last 5 years. **(7)**	15

2. Personnel Capability	
Project Manager / MEP Engineer (Quantitative)(Doc Required) Masters degree in Relevant Field with experience of more than 20 years **(7)** Experience of more than 20 years **(6)** Experience of more than 15 to 20 years **(4)** Experience of more than 10 to 15 years **(2)** Experience of more than 5 to 10 years **(1)**	7
HVAC / Mechanical Engineer (Quantitative)(Doc Required) Experience of more than 10 years **(5)** Experience of more than 7 to 10 years **(4)** Experience of more than 5 to 7 years **(2)**	5
HVAC Installation Site Supervisor (Quantitative)(Doc Required) Experience of more than 10 years **(4)** Experience of more than 7 to 10 years **(3)** Experience of more than 5 to 7 years **(1)**	4
Quantity Surveyor (Quantitative)(Doc Required) Experience of more than 10 years **(4)** Experience of more than 5 to 10 years **(3)**	4
3. Equipment Capabilities	
Sheet Cutting Machine (Quantitative)(Doc Required)	2
Sheet Bending Machine (Quantitative)(Doc Required)	2
Sheet Rolling Machine (Quantitative)(Doc Required)	2
Flair Machine for Cu pipes (Quantitative)(Doc Required)	1

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Electric Arc Bending Machine (Quantitative)(Doc Required)	1
Lock Former (Quantitative)(Doc Required)	1
Grooving Machine (Quantitative)(Doc Required)	1
4. Financial Capability	
Available Project Specific Bank Credit Line Facility (Project Specific Bank Credit Line Facility) (Quantitative)(Doc Required) Available bank credit line limit is equal to or above Pak Rs. 200 Million **(5)** Available bank credit line limit is equal to or above Pak Rs. 100 Million **(3)** Available bank credit line limit is equal to or above Pak Rs. 80 Million **(2)**	5
Average Working Capital (updated) (Quantitative)(Doc Required) Average Working Capital > Pak Rs 300 million **(15)** Average Working Capital equal or above Pak Rs 200 million **(9)** Average Working Capital equal or above Pak Rs 100 million **(4)**	15
Average Annual Turnover in last 3 year (Quantitative)(Doc Required) Average Annual Turnover > Pak Rs 400 million **(15)** Average Annual Turnover equal or above Pak Rs 250 million **(7)** Average Annual Turnover equal or above Pak Rs 150 million **(3)**	15

Jobs/Lots

Jobs Without Lots :

Job	Delivery Schedule	Quantity	Bid Security

REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD: Supply, Installation, Testing & Commissioning of Heating Ventilation & Air Conditioning for Amir Khan Boxing Academy and Hamidi Hall (PACKAGE-5)	Address: Sri Nagar Highway, Aabpara, Islamabad Capital Territory Schedule: 90 Days Quantity: 1/Qty	1/Qty	8000000 PKR

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Related Services :

No

Work Specifications and Market Rates

Jobs Without Lots :

Job: REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD: Supply, Installation, Testing & Commissioning of Heating Ventilation & Air Conditioning for Amir Khan Boxing Academy and Hamidi Hall (PACKAGE-5)

Specifications / Requirements:

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	AMIR KHAN BOXING ACADEMY					

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2	1	Supply, installation, testing, and commissioning of factory-assembled Air Cooled Rooftop Packaged Air Conditioners, complete with scroll/screw compressors, air-cooled condenser with axial fans, evaporator coil, supply air fan, filters (G4), microprocessor-based control panel, weatherproof casing suitable for outdoor installation, refrigerant charge, safety controls, vibration isolators, spare parts and all accessories as required for proper operation. The item shall include lifting to roof level,				

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Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	a)	PAC-1 (Nominal Capacity 360 MBH, ESP = 1.0 inch of WC, Max. Air Flow = 11,500 CFM)	EACH	6	14845000	89070000
4	b)	Essential Spare Parts	LOT	1	1550000	1550000
6	2	Supply and installation of hanging and support arrangement for complete HVAC Works and related electrical works including all accessories complete in all respect.	LOT	1	4250000	4250000

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Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8	3	Supply and installation of Sheet Metal Ducting various Guages as per SMACNA schedule including all accessories & fitting complete in all respect.				
9	a)	Rectangular Duct				
10	a-1)	US Gauge 24	SFT	360	310	111600
11	a-2)	US Gauge 22	SFT	2800	340	952000
12	b)	Round Duct				
13	b-1)	US Gauge 24	SFT	1000	310	310000
14	b-2)	US Gauge 22	SFT	9000	340	3060000
15	b-3)	US Gauge 20	SFT	1300	360	468000

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Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
17	4	Supply and installation of insulation including transportation, storage as specified with all taxes and duties.				
18	a)	Indoor Supply/Return Air Duct exposed to vision and outdoor with cladding	SFT	11300	320	3616000
19	b)	Acoustic Liner on Supply Air Ducts and Sheet Metal Air Plenums	SFT	1000	156	156000

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Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
22	5	Supply & installation of pre assembled Flexible Duct Connectors factory fabricated with coated woven fabric and G.I. collars both by means of double lock seam on each side as specified, transportation, unloading, storage, lifting, and fixing at locations including all taxes and duties.				
23	a	Flexible Duct Connectors (Rectangular)	RFT	140	910	127400

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Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
24	b	Duct Flexible Connection where duct crosses building joints(Construction Joints)	Lot	1	400000	400000
26	6	Supply & installation of G.I, Air Inlets/Outlets, transportation, unloading, storage, lifting, and fixing at locations including all taxes and duties.				
27	a	Code A: Side Wall Supply Air Adjustable Eye Ball Jet Flow Diffuser				
28	ii)	Dia 14 inch	EACH	76	17650	1341400

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
29	b	Code B: Side Wall Return/ Exhaust Air Grille with double Deflection Adjustable Bars	SFT	100	4320	432000
30	d	Code D: Outdoor Air Anti Vermin Anti Bird Mesh Louvers	SFT	40	3080	123200
32	7	Supply and installation of Volume Control Dampers for complete system with accessories and fitting complete in all respect.				
33	a)	Rectangular Volume Damper	SFT	50	5170	258500
34	b)	Circular Volume Damper				
35	b-1)	Dia 38" inch	EACH	4	41650	166600

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
36	b-2)	Dia 32" inch	EACH	4	35350	141400
37	b-3)	Dia 28" inch	EACH	12	31150	373800
39	8	Supply & installation of G.I Sheet Fire Dampers, transportation, unloading, storage, lifting, and fixing at locations including all taxes and duties.				
40	a)	Rectangular Fire Damper	SFT	40	6520	260800
41	b)	Circular Fire Damper with neck adaptor				
42	b-1)	Dia 38" inch	EACH	4	67950	271800
43	b-2)	Dia 32" inch	EACH	4	48250	193000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
45	9	Supply & installation of Filters other than installed in filter boxes of PAC including transportation, unloading, storage, lifting, and fixing at locations including all taxes and duties.	SFT	40	4440	177600
47	10	Supply and Installation of relevant electrical equipment, power cables, cable trays, conduits and control work with all accessories.				
48	a	ACP				
49		Amir Hall				
50	a-1)	ACP 01	EACH	1	525000	525000

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Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
51	a-2)	ACP 02	EACH	1	525000	525000
52	a-3)	ACP 03	EACH	1	525000	525000
53	a-4)	ACP 04	EACH	1	525000	525000
54	b	All electrical works as specified except MCC and ACP mentioned under item (a) above including all HVAC equipment, Wiring works complete in all respect	Lot	1	7600000	7600000
56	11	Supply and installation of UPVC Condensate Drain pipe including fittings, slopes, connection to nearest drain, complete in all respect.				
57	a)	Dia 1-1/4"	RFT	40	250	10000

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
59	12	Relevant civil works required to complete the system including, equipment foundations, boxing, cutting, patching,Decorative fencing, repairing, opening, sealing etc. complete an all respect.	LOT	1	2000000	2000000
61	13	Testing & Commissioning of overall HVAC system.	LOT	1	600000	600000
63	14	Operations & Maintenance of overall HVAC system during Defect Liability Period as specified.	MONTHS	12	250000	3000000
64		TOTAL = Rs				

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
65	HAMIDI HALL					

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
66	1	Supply, installation, testing, and commissioning of factory-assembled Air Cooled Rooftop Packaged Air Conditioners, complete with scroll/screw compressors, air-cooled condenser with axial fans, evaporator coil, supply air fan, filters (G4), microprocessor-based control panel, refrigerant charge, safety controls, vibration isolators, spare parts and all accessories as required for proper operation.PACS shall be suitbale to operate at ambient temperature of 115 ºF (46 ºC). The item				

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
67	a)	PAC-1 (Nominal Capacity 240 MBH, ESP = 1.0 inch of WC, Max. Air Flow = 9500 CFM)	EACH	4	7790000	31160000
68	b)	Essential and Recommended Spare Parts	LOT	1	1050000	1050000
70	2	Supply and installation of hanging and support arrangement for complete HVAC Works and related electrical works including all accessories as required for propoper operation. Complete in all respect including all taxes and duties.	LOT	1	2100000	2100000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
72	3	Supply, installation, testing, and commissioning of fans as indicated on drawings, complete with electric motor, fan casing, impeller, anti-vibration mounts, belt drive or direct drive as applicable, and all accessories required for proper operation. Complete in all respect including all taxes and duties.				
73	a)	EF-1 (Propeller Fan, Air Flow 500 cfm)	EACH	2	19800	39600
74	b)	EF-2 (Centrifugal Inline, Direct Drive, Air Flow 500 cfm, ESP = 0.5")	EACH	2	83400	166800

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
76	4	Supply and installation of Sheet Metal Ducting various Guages as per SMACNA schedule including all accessories & fitting. Complete in all respect including all taxes and duties.				
77	a)	US Gauge 26	SFT	200	290	58000
78	b)	US Gauge 24	SFT	500	310	155000
79	c)	US Gauge 22	SFT	8215	340	2793100
81	5	Supply and installation of insulation including transportation, storage as specified with all taxes and duties.				

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
82	a)	Indoor Supply/Return Air Duct exposed to vision and outdoor with cladding	SFT	8215	320	2628800
83	b)	Acoustic Liner on Supply Air Ducts and Sheet Metal Air Plenums	SFT	500	156	78000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
86	6	Supply and installation of pre assembled Flexible Duct Connectors factory fabricated with coated woven fabric and G.I. collars both by means of double lock seam on each side as specified, transportation, unloading, storage, lifting, and fixing at locations including all taxes and duties.				
87	a)	Flexible Duct Connectors (6" wide)	RFT	100	910	91000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
88	b)	Duct Flexible Connection where duct crosses building joints(Construction Joints)	Lot	1	125000	125000
90	7	Supply & installation of G.I, Air Inlets/Outlets extruded aluminium anodized/powder coated, transportation, unloading, storage, lifting, and fixing at locations including all taxes and duties.				
91	a)	Code A: Side Wall Supply Air Adjustable Concentric Ring Jet Flow Diffuser				

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
92	i)	Dia 22 inch	EACH	28	22850	639800
93	b)	Code B: Side Wall Return/ Exhaust Air Grille with Double Deflection Adjustable Bars	SFT	75	4320	324000
94	c)	Code C: Return/Exhaust Air Diffuser Square Face Rectangular Neck	SFT	10	4650	46500
95	d)	Code D: Outdoor/Exhaust Air Anti Vermin Anti Bird Mesh Louvers	SFT	15	3080	46200

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
97	8	Supply and installation of butterfly or multiple opposed blade type as per latest SMACNA Duct Construction Standards Dampers, of Prime Quality G.I sheet of specified thickness, the volume damper shall be muti-leaf type, with a mximum blade width of 8", heavy duty quadrant operators with stand off mountings on thermally insulated ducts to provide clearance between the duct surface and operator, equal to the thickness of the insulation, capable of being locked at desired position				

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
98	a)	Volume Control Damper (16 Gauge)	SFT	60	5170	310200
100	9	Supply and installation of Filters (2" thick washable aluminium metal) other than installed in filter boxes of PAC including transportation, unloading, storage, lifting, and fixing at locations including all taxes and duties.	SFT	14	4440	62160

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
102	10	Supply and Installation of relevant electrical equipment, power cables, cable trays, conduits and control work with all accessories. Complete in all respect including all taxes and duties.				
103	a)	ACP	Lot	1	850000	850000
104	b)	All electrical works as specified except ACP mentioned under item (a) above including all HVAC equipment, Wiring works complete in all respect	Lot	1	2100000	2100000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
106	11	Supply and installation of UPVC pipe (Class E), for Condensate Drain including fittings, slopes, connection to nearest drain. Complete in all respect including all taxes and duties.				
107	a)	Dia 1-1/4"	RFT	20	250	5000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
109	12	Relevant civil works required to complete the system including, equipment foundations, boxing, cutting, patching, Decorative fencing, repairing, opening, sealing etc. Complete in all respect including all taxes and duties.	LOT	1	1499740	1499740
111	13	Testing & Commissioning of overall HVAC system.	LOT	1	550000	550000

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	ITEM No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
113	14	Operations & Maintenance of overall HVAC system during Defect Liability Period as specified.	MONTHS	12	250000	3000000
114		TOTAL = Rs				
					GRAND TOTAL:	Rs173,000,000.00

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Scope of Work

REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD: Supply, Installation, Testing & Commissioning of Heating Ventilation & Air Conditioning for Amir Khan Boxing Academy and Hamidi Hall (PACKAGE-5)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

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]		

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

General Conditions of Contract

A. General

1. **Definitions**

1.1. Unless the context otherwise requires, the following terms whenever used in this Contract shall have the same meaning and shall be interpreted as indicated

1.1.1. “Applicable Law” means the laws and any other instruments having the force of law in the Government’s Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;

1.1.2. “The Contract” means an agreement enforceable by law;

1.1.3. “The Contract Price” means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations;

1.1.4. “The Services” means the work to be performed by the Contractor pursuant to this Contract and as prescribed in the Specifications and Schedule of Activities included in the Contractor’s Bid;

1.1.5. “Ancillary Services” means those services ancillary to the provision of Services, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Contractor covered under the Contract;

1.1.6. “GCC” means the General Conditions of Contract contained in this section;

1.1.7. “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

1.1.8. **“**Day” means calendar day unless indicated otherwise;

1.1.9. “Effective Date” means the date on which this Contract comes into force and effect;

1.1.10. “The Contractor” means the individual or corporate body whose Bids to provide the Services has been accepted by the Procuring Agency;

1.1.11. “The Project Site,” where applicable, means the place or places named in Bid Data Sheet and technical Specifications;

1.1.12. “Government” means the Government of Pakistan;

1.1.13. “Local Currency” means the currency of Pakistan;

1.1.14. “In Writing” means communicated in written form with proof of receipt;

1.1.15. “Completion Date” means the date of completion of the Services by the Contractor as certified by the Procuring Agency;

1.1.16. “Foreign Currency” means any currency other than the currency of the country of the Procuring Agency;

1.1.17. “Party” means the Procuring Agency or the Contractor, as the case may be, and “Parties” means both of them;

1.1.18. "Service" means any object of procurement other than goods or works;

1.1.19. “Subcontractor” means any entity to which the Bidder subcontracts any part of the Services.

2. **Applicable Law**

2.1. The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.

3. **Language**

3.1. The Contract as well as all correspondence and documents relating to the Contract exchanged between the Contractorand the Procuring Agency, shall be written in the **English language** unless otherwise stated in the **SCC** . Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.

4. **Notices**

4.1. Any notice, request, or consent made pursuant to this Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the **SCC**.

5. **Location**

5.1. The Services shall be performed at such locations as the Procuring Agency may approve and as specified in **SCC.**

5.2. A {DOCUMENTS}

6. **Authorized Representatives / Authority of Member in charge**

6.1. Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Procuring Agency or the Contractor may be taken or executed by the officials specified in the **SCC**.

B. Commencement, Completion, Modification, and Termination of Contract

7. **Effectiveness of Contract**

7.1. This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the **SCC.**

8. **Commencement of Services**

8.1. The Contractor shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the **SCC.**

9. **Program schedule**

9.1. Before commencement of the Services, the Contractor shall submit to the Procuring Agency for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.

10. **Starting Date/Expiration Date**

10.1. The Contractor shall start carrying out the Services Five (05) days after the date the Contract becomes effective, or at such other date as may be specified in the **SCC.**

10.2. Unless terminated earlier pursuant to Clause **GCC 14** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the **SCC.**

11. **Entire Agreement**

11.1. This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

12. **Modification**

12.1. Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any modification(s) or variation(s) made by the other Party.

12.2. In cases of any modification(s) or variation(s), the prior written consent of the Procuring Agency is required.

13. **Force Majeure**

13.1. **Definition**
For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Contractor and which makes a Contractor’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

13.2. **No Breach of Contract**
The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract in so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative

measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

13.3. **Extension of Time**
Any period within which a Contractor shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.

13.4. **Payments**
During the period of their inability to perform the Services as a result of an event of Force Majeure, the Contractor shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

14. **Termination**

14.1. **By the Procuring Agency**
The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (e) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) calendar days' written notice of termination to the Contractor in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e);

14.1.1. If the Contractor fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;

14.1.2. If the Contractor becomes (or, if the Contractor consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;

14.1.3. If the Contractor fails to comply with any final decision reached as a result of arbitration proceedings;

14.1.4. If, as the result of Force Majeure, the Contractor is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

14.1.5. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

14.2. **By the Contractor**
The Contractor may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Procuring Agency, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

14.2.1. If the Procuring Agency fails to pay any money due to the Contractor pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Contractor that such payment is overdue;

14.2.2. If, as the result of Force Majeure, the Contractor is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

14.2.3. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration;

14.2.4. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Contractor's notice specifying such breach.

C. Obligations of the Contractor

15. **General**

15.1. **Standard of Performance**

15.1.1. The Contractor shall perform the Services and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Contractor shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties;

15.1.2. The Contractor shall employ and provide such qualified and experienced Experts and Sub-Contractors as are required to carry out the Services.

15.2. **Law Applicable to Services**

The Contractor shall perform the Services in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-Bidders, comply with the Applicable Law.

16. **Conflict of Interests**

16.1. **Contractor Not to Benefit from Commissions and Discounts**

The remuneration of the Contractor shall constitute the Contractor's sole remuneration in connection with this Contract or the Services, and the Contractor shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Contractor shall use their best efforts to ensure that the Personnel, any Subcontractors, and agents of either of them similarly shall not receive any such additional remuneration.

16.2. **Contractor and Affiliates Not to be Otherwise Interested in Project**

The Contractor agree that, during the term of this Contract and after its termination, the Contractor and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Services (other than the Services and any continuation thereof) for any project resulting from or closely related to the Services.

16.3. **Prohibition of Conflicting Activities**
Neither the Bidder nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

16.3.1. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;

16.3.2. during the term of this Contract, neither the Contractor nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

16.3.3. after the termination of this Contract, such other activities as may be specified in the **SCC.**

17. **Insurance to be Taken Out by the Contractor**

17.1. The Contractor(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Sub-contractors', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, and for the coverage, as shall be specified in the **SCC**; and (b) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing that such insurance has been taken out and maintained and that the current premiums have been paid.

18. **Contractor's Actions Requiring Procuring Agency's Prior Approval**

18.1. The Contractor shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

18.1.1. appointing such members of the Personnel not provided by the Contractor;

18.1.2. changing the Program of activities; and

18.1.3. any other action that may be specified in the **SCC.**

19. **Reporting Obligations**

19.1. The Contractor shall submit to the Procuring Agency the reports and documents in the numbers, and within the periods as prescribed by the Procuring Agency.

20. **Liquidated Damages**

20.1. **Payments of Liquidated Damages**
The Contractor shall pay liquidated damages to the Procuring Agency at the rate per day stated in the **SCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the **SCC**. The Procuring Agency may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

20.2. **Correction for Over-payment**
If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Agency shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The

Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in **SCC.**

20.3. **Lack of performance penalty**
If the Contractor has not corrected a Defect within the time specified in the Procuring Agency's notice, a penalty for Lack of performance will be paid by the Contractor. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the Contractor

21. **Performance Guarantee**

21.1. Within the time stipulated in the acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape and amount **specified in SCC.**

21.2. The proceeds of the Performance Guarantee shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

21.3. The Performance Guarantee shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring agency and shall be in the acceptable form as specified in **SCC**.

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

22. **Sustainable Procurement**

22.1. The Contractor shall conform to the sustainable procurement contractual provisions, if and as specified in the **SCC.**

D. Contractor's Personnel

23. **Description of Personnel**

23.1. The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Contractor's Key Personnel. The Key Personnel listed by title as well as by name are hereby approved by the Procuring Agency.

24. **Removal and / or Replacement of Personnel**

24.1. Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Contractor, it becomes necessary to replace any of the Key Personnel, the Contractor shall provide as a replacement a person of equivalent or better qualifications.

24.2. If the Procuring Agency finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Contractor shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.

24.3. The Contractor shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

E. Obligations of the Procuring Agency

25. **Change in the Applicable Law**

25.1. If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the Services rendered by the Contractor, then the remuneration and reimbursable expenses otherwise payable to the Contractor under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred in the **SCC.**

26. **Services and Facilities**

26.1. The Procuring Agency shall make available to the Contractor and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described in the Terms of Reference, at the times and in the manner specified in the Terms of Reference.

26.2. In case that such services, facilities and property shall not be made available to the Contractor, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Contractor for the performance of the Services, (ii) the manner in which the Contractor shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Contractor as a result thereof.

F. Payments to the Contractor

27. **Contract Price**

27.1. The price payable shall be in Pakistani Rupees unless otherwise specified in the **SCC**.

28. **Terms and Conditions of Payment**

28.1. Payments will be made to the Contractor according to the payment schedule stated in the **SCC** and as per actual invoice submitted by the Contractor.

28.2. Unless otherwise stated in the **SCC**, the advance payment shall be made against the provision by the Contractor of a bank guarantee for the same amount, and shall be valid for the period stated in the **SCC.** Any other payment shall be made after the conditions listed in the **SCC** for such payment have been met, and the Contractor have submitted an invoice to the Procuring Agency specifying the amount due.

29. **Quality Control Identifying Defects**

29.1. The principle and modalities of Inspection of the Services by the Procuring Agency shall be as indicated in the **SCC.** The Procuring Agency shall check the Contractor’s performance and notify him of any Defects that are

found. Such checking shall not affect the Contractor's responsibilities. The Procuring Agency may instruct the Contractor to search for a Defect and to uncover and test any service that the Procuring Agency considers may have a Defect. Defect Liability Period is as defined in the **SCC**.

29.2. A {INSPECTION}

30. **Correction of Defects, and Lack of Performance Penalty**

30.1. The Procuring Agency shall give notice to the contractor of any Defects before the end of the Contract. The Defects liability period shall be extended for as long as Defects remain to be corrected.

30.2. Every time notice a Defect is given; the contractor shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

30.3. If the contractor has not corrected a Defect within the time specified in the Procuring Agency's notice, the Procuring Agency will assess the cost of having the Defect corrected, the contractor will pay this amount, and a Penalty for Lack of Performance.

31. **Settlement of Disputes Amicable Settlement**

31.1. The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.

32. **Dispute Settlement**

32.1. **Arbitration**

If any dispute of any kind whatsoever shall arise between the procuring agency and the contractor in connection with or arising out of the Contract, including without prejudice to the generality of the foregoing, any question regarding its existence, validity or termination, or the execution of the contract, the parties shall seek to resolve any such dispute or difference by mutual consultation. If the parties fail to resolve such a dispute or difference even after negotiations or mediation, then the dispute shall be referred within fourteen (14) days in writing by either party to the Arbitrator, with a copy to the other party.

Any dispute in respect of which a notice of intention to commence arbitration has been given, in accordance with **GCC sub-clause 32.1**, shall be finally settled by arbitration. Arbitration may be commenced prior to or after completion of the Contract. Arbitration proceedings shall be conducted in accordance with Arbitration Act 1940. Notwithstanding any reference to arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless otherwise agreed. The Procuring Agency shall continue to pay the Contractor any undisputed amounts due under the Contract during the resolution of any dispute.

Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

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

Number of GC Clause

Amendments of, and Supplements to, Clauses in the General Conditions of Contract

Number of GC Clause 1

Definitions

The Procuring Agency is: Pakistan Sports Board (Pakistan Sports Board), Executive Engineer Sri Nagar Highway, Aabpara, Islamabad Capital Territory

The Supplier is:

The title of the subject procurement is: REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD: Supply, Installation, Testing & Commissioning of Heating Ventilation & Air Conditioning for Amir Khan Boxing Academy and Hamidi Hall (PACKAGE-5)

Number of GC Clause 2

Applicable/Governing Law:

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan

Number of GC Clause 3

Language:

The language of the Contract, all correspondence and communications to be given, and all other documentation to be prepared and supplied under the Contract shall be in **English.**

Number of GC Clause 4

Notices:

The addresses for the notices are:

Procuring Agency:

Pakistan Sports Board (Pakistan Sports Board), Executive Engineer
Sri Nagar Highway, Aabpara, Islamabad Capital Territory
+92-331-595-9887
xenpsb@sports.gov.pk

Contractor/ Bidder:

[Name, address and telephone number]

The Contractor/ Bidder's Representative(s)

[Name, address, telephone number and e-mail address]

Number of GC Clause 6.1

The Authorized Representatives are:

For the Procuring Agency:

Pakistan Sports Board (Pakistan Sports Board), Executive Engineer
Sri Nagar Highway, Aabpara, Islamabad Capital Territory
+92-331-595-9887
xenpsb@sports.gov.pk

For the Bidder:

Name: ……

Designation: ……..

Address: ……..

Number of GC Clause 7

Effectiveness of the contract

The Contractor/Bidder shall be effective within ….. days from the date of signature of the Contract by both parties

Number of GC Clause 8

Commencement of Contract:

The Contractor/Bidder shall provide Non-Consultancy Services from the effective date of contract.

Number of GC Clause 10.2

Expiration of Contract:

The time period shall be ……

Number of GC Clause 14

Termination

In the event of termination of the contract due to any reason as already defined in the General Conditions of Contract, the Bidder shall be responsible for providing to the Authority the Goods till the time of alternate arrangements.

Number of GC Clause 16

Conflict of Interest:

The Procuring Agency reserves the right to determine on a case-by-case basis whether the Bidder should be disqualified from providing goods or services due to a conflict of a nature described in Clause GCC 17.

Number of GC Clause 20

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.01%** to **0.05%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the Authority.

Number of GC Clause 21

Performance Guarantee:

The amount of performance guarantee shall be **0%** of the contract price in acceptable form of **Nil**

Number of GC Clause 27

Currency of Payment:

All the payment to be released to the contractor/Bidder shall be in Pakistani Rupees.

Number of GC Clause 28

Payment terms:

Payment will be made to the Bidder against the procured Goods and services according to the actual invoice or running bills submitted by the Bidder against the services provided within the time given in the conditions of the contract.

Number of GC Clause 29

Identifying Defects:

The Authority reserves the right at any time to inspect the premises of the provider to inspect the goods and monitor the goods being provided.

Inspections & Tests Requirements

For being Brand New, bearing relevant reference numbers of the equipment (Certificate from supplier)

For Physical Fitness having No Damages (Certificate from supplier)

For the Country of Origin as quoted by the Supplier (Certificate from manufacturer)

For conformance to specifications and performance parameters, through Prior to delivery inspection (Inspection Report by Procurement Committee / Inspection Team)

For successful operation at site after complete installation, testing and commissioning of the equipment (Installation, Testing and Commissioning Report by Procurement Committee / Inspection Team)

Delivery & Documents

Copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;

Original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;

Copies of the packing list identifying contents of each package;

Insurance Certificate;

Manufacturer's or Supplier's Valid Warranty Certificate;

Inspection Certificate issued by the Nominated Inspection Agency (if any), and the Supplier's Factory Inspection Report;

Certificate of Origin.

The above documents would be required even if the equipment has already been imported and is available with the supplier ex-stock

Number of GC Clause 31

Following is the guidance for Dispute Resolution

i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract... (full clause unchanged)

ii. At future of negotiation the dispute shall be resolved through mediation...

iii. At failure of mediation, arbitration under Arbitration Act 1940...

iv. Cost sharing equally...

v. Proceedings may commence before/after completion...

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract.

Rules of procedure for arbitration proceedings:

Any dispute between the Authority and a Bidder shall be referred to arbitration under the laws of Pakistan including Arbitration Act 1940.

Place of Arbitration and Award:

The arbitration shall be conducted in English language and place shall be Islamabad. The award shall be final and binding.

Bid Securing Declaration

Form 9: Bid Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.:***P210015***

To: **Pakistan Sports Board (Pakistan Sports Board), Executive Engineer Sri Nagar Highway, Aabpara, 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:

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;

2. Disagreement to arithmetical correction made to the Bid price; or

3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

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 (28) days after the expiration of our Bid.

Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the _____ day of _____ 20_____ between **Pakistan Sports Board (Pakistan Sports Board), Executive Engineer Sri Nagar Highway, Aabpara, Islamabad Capital Territory**

(hereinafter called "the Procuring Agency") of the one part and *[name of Bidder]* of *[city and country of Bidder]* (hereinafter called "the Bidder") of the other part:

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD: Supply, Installation, Testing & Commissioning of Heating Ventilation & Air Conditioning for Amir Khan Boxing Academy and Hamidi Hall (PACKAGE-5) (*P210015*)** and has accepted a Bids by the Bidder for the provision of Goods 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:-

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency's Letter of Acceptance; and
8. [*add here: any other documents*]

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the Goods related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of Goods 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)

Witness to the signatures of the Procuring Agency:

……

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Bidder: ……

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

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.

Performance Guarantee Form

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.

Annexure

Annex-I (Volume-I, II & III)

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Annex-I (Volume-I, II & III)** (page number: 102)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Procurement Forms

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

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(PPRA)
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Additional Forms and Documents

PAKISTAN SPORTS BOARD (PSB)

REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD

PACKAGE 5
HVAC WORKS
AMIR KHAN BOXING ACADEMY AND HAMIDI HALL

TECHNICAL BID

BIDDING DOCUMENTS
VOLUME – I

NOVEMBER, 2026

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.
NESPAK House, Sector G-5/2, Islamabad, Tel: 051-9221910-13, Fax: 051-9221914.

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PART-A

BIDDING PROCEDURE & REQUIREMENTS

SECTION I: INVITATION FOR BIDS

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Pakistan Sports Board

Bid No. .....

For

HVAC WORKS AMIRKHAN BOXING ACADEMY AND HAMIDI HALL

Invitation For Bids

Date: ....

1 This Invitation for Bids follows the Procurement Notice (PN) or Procurement Advertisement (PA) No. -------- of 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 [*insert the financial year*]. It is intended that part of the proceeds of the funds will be used to cover eligible payment under the contract for the [*insert the name of the contract*].

3 The Pakistan Sports Board (PSB) now invites electronic bids from eligible bidders, having valid registration with PEC in the category **C-4** and above having Specialization Codes MF01, for the works titled **PACKAGE 5 HVAC WORKS: AMIR KHAN BOXING ACADEMY AND HAMIDI HALL for "Revamping And Refurbishment Of Different Facilities at Pakistan Sports Complex, Islamabad"** to be completed in **three (03)** months. The bidder shall have experience in Projects of HVAC Works. Detailed evaluation criteria is prescribed in the bidding documents. Domestic Preference is not applicable in this bid.

4 The bidding shall be conducted in line with the **Single-Stage Two Envelope Bidding** procedure prescribed under Public Procurement Rules 2004, 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

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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 in the amount of **Rs. 20 million** or freely convertible currencies in case of foreign Bidders.

6. The electronic bids prepared in accordance with the instructions prescribed in the electronic bidding documents must be submitted through EPADS on or before **November 26, 2026 up to 11:00 am**. Electronic bids will be opened by using EPADS on the same day at **11:30 am** in the office of

   Superintending Engineer, PSB.
   Srinagar Highway, near Abpara, Islamabad.
   Ph: 051- 9202410

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

8. Pakistan Sports Board (PSB) reserves the right to reject all Bids as per Rule 45 of Public Procurement Rules, 2026.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

NESPAK 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

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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

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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;

(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

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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.

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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

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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 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.

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C. PREPARATION OF BIDS

1. **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 **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.
2. **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 permissible, 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.**

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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;

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.

3. 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:

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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.**

4. 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.
5. 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.
6. 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):

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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 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.

7. 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

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		BDS and to substantiate that the amounts included in Lump Sum and in the SCC are reasonable and responsive to **ITB 16.1**.
8. 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.
9. 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.
10. 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)**.

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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**

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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.

11. 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

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specifically allowed for in the **BDS**. If so allowed. **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.

12. 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.

13. 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

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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

10. 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

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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.

11. 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.

12. 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.

13. 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.**

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E. OPENING AND EVALUATION OF BIDS

14. 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 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.

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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.

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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.

15. 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.

16. 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 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;

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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.

17. 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 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

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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

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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.

18. 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.

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19. 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 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.**

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20. 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.**

21. Evaluation of Bids

34.1 The Procuring agency/Employer shall evaluate and compare 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

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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

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22. 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.
23. 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.
24. 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.
25. 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.
	38.2	Bidders may propose sub-contracting up to the percentage of total value of contracts or the volume of works as specified in the **BDS.**

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26. 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.

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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.

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F. AWARD OF CONTRACT

27. 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.

28. 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;

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.

29. 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.

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30. 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.

31. 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.

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32. 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.**
33. 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

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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.**

34. 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.

35. 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

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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).

36. 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 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.**
37. 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.
38. 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.

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F. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

39. 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.

40. 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

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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.

G. MECHANISM OF BLACKLISTING

41. 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.

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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 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: **Pakistan Sports Board (PSB)** The subject of procurement is: **HVAC WORKS: AMIR KHAN BOXING ACADEMY AND HAMIDI HALL for "Revamping And Refurbishment Of Different Facilities at Pakistan Sports Complex, Islamabad"** Period for completion of the works: **Three (03) months** Commencement date execution of the works: **Immediately** Type of Procurement: **National competitive bidding**
2.	2.1	Financial year for the operations of the Procuring agency/Employer: **2026-2027** Name of Project **HVAC WORKS: AMIR KHAN BOXING ACADEMY AND HAMIDI HALL for "Revamping And Refurbishment Of Different Facilities at Pakistan Sports Complex, Islamabad"** Name of financing institution: **Pakistan Sports Board (PSB)** Name and identification number of the Contract: **Package 5**
3.	3.1	Maximum number of members in the joint venture, consortium shall be: **JV Not Allowed**

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B. Bidding Documents

4.	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** • Bid Drawings. Financial Bid **7.1.4 Volume – IV** • Letter of Financial Bid: • Preamble to Bill of Quantities: • Bill of Quantities.
5.	7.2	Complete Bid duly signed, stamped and scanned shall be submitted online on EPADS v2.0.
6.	8.1	The address for clarification of Bidding Documents is

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		Superintending Engineer, PSB Srinagar Highway, Near Abpara, Islamabad. Ph: 051-9202410
	8.5	Pre-bid meeting venue, time, and date will be held as per Invitation to Bids.

C. Preparation of Bids

7.	**10.1**	The Language of all correspondences and documents related to the Bid is: **English**
8.	**11.1 (i)**	In addition to the documents stated in **ITB 11,** the following documents must be included with the Bid **Nil**
9.	**11.5 (e)**	Other procurement specific documentation requirements are: **Nil.**
10.	**15.5**	The bid price shall be adjusted in accordance with Appendix C– Formula for Price Adjustment.
11.	**15.6**	Name of the works **HVAC WORKS: AMIR KHAN BOXING ACADEMY AND HAMIDI HALL** for **"Revamping And Refurbishment Of Different Facilities at Pakistan Sports Complex, Islamabad"** The identification No. **PACKAGE – 01** The No. and identification of lots (contracts) comprising this open competitive bid **Nil**
12.	**16.1**	The currency of the Bid shall be **PKR.;**
13.	**18.1**	The Bid Validity period shall be **120** days.
14.	**19.1**	The amount of Bid Security shall be **Rs. 20 M** The currency of the Bid Security shall be: **PKR.** Bid Securing Declaration is applicable **Yes**
15.	**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 **182** days from the date

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		of submission/opening of bids.
16.	**19.3 (c)**	Other forms of security are: **Not applicable**
17.	**20.1**	Alternative Bids to the requirements of the Bidding Documents **Not Permitted**
18.	**20.2**	Not applicable
19.	**22.1**	The Bid prepared in accordance with the instructions in the Bidding documents, must be submitted through **EPADS v2.0.**
20.	**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

21.	**23.2 (a)**	Bid shall be submitted: **Not Applicable**
22.	**23.2 (b)**	**Not Applicable**
23.	**23.4 (a)**	Bid shall be submitted through EPADS v2.0.
24.	**23.4 (b)**	Title of the subject Procurement or Project name: **HVAC WORKS: AMIR KHAN BOXING ACADEMY AND HAMIDI HALL**
25.	**24.1**	The deadline for Bid submission is as per Invitation to Bid

E. Opening and Evaluation of Bids

26.	**27.1**	Bids will be opened by using EPADS v2.0.
27.	**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**
28.	**33.3**	The bids shall be quoted in **PKR**
29.	**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.
30.	**34.2**	Criteria for evaluating the bids to be used in the evaluation and their evaluation method or reference to the Technical

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		Specifications as mentioned in **Section-V Evaluation and Qualification Criteria.**
31.	**34.2**	Specific criteria in case evaluating the bids submitted by JVs and consortium to be used in the evaluation and their evaluation method or reference to the Technical Specifications. **JV is Not Allowed.**
32.	**34.5**	Separate Prices for different lots: Not Applicable
33.	**35**	Domestic Preference: **Not Applicable**
34.	**38.2**	Sub-contracting is not allowed.
		F. Award of Contract
35.	**48**	The Performance Security (or guarantee) shall be **10% (ten percent) of the Contract Price.**
36.	**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
37.	**52.1**	The address of Grievances Committee is: Convener Grievance Committee. Pakistan Sports Board Srinagar Highway, Near Abpara, Islamabad. Ph: –92-51-9202410
38.	**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 Ph: –92-51-9202254

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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

Qualification of Bidders will be based on the criteria given in succeeding para 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 paras 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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Qualification							
Eligibility and Qualification Criteria			**Compliance Requirements**				**Documentation**
No.	**Subject**	**Requirement**	**Single Entity**	**Joint Venture (existing or intended)**			**Submission Requirements**
				All Parties Combined	**Each Member**	**One Member**	
1. Eligibility							
1.1	**Nationality**	Nationality in accordance with **ITB 4.1**	Must meet requirement	N/A	N/A	N/A	Forms ELI – 1.1 and 1.2, 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
1.3	**Valid registration with Pakistan Engineering Council (PEC)**	**Category C-4** having Specialization Codes: **ME01**	Must meet requirement	N/A	N/A		Valid PEC License
1.4	**Registration with Federal Board of Revenue**						
i	**Registration with FBR**	Bidder registration with the Federal Board of Revenue for Income Tax	Must meet requirement	N/A	N/A	N/A	Income Tax Registration Certificate
ii	**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
iii	**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
Historical Contract Non-Performance							
2.1	**History of Non-Performing Contracts**	Non-performance of a contract did not occur as a result of contractor default since Last 15 years.	Must meet requirement	N/A	N/A	N/A	Form CON-2

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Qualification							
Eligibility and Qualification Criteria			**Compliance Requirements**				**Documentation**
No.	**Subject**	**Requirement**	**Single Entity**	**Joint Venture (existing or intended)**			**Submission Requirements**
				All Parties Combined	**Each Member**	**One Member**	
2.2	**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
2.3	**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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Detailed Evaluation Criteria

Category	Points	
	Maximum	Minimum Passing Marks
Experience	35	21
Personnel	20	12
Equipment	10	06
Financial	35	21
Total	**100**	**60**

Detailed criteria for each category under each head is as follows:

Construction Capability / Similar Experience:

Points for experience will be given on the basis of the following criteria:

Sr. No.	Capability	Marks (Maximum)
1.	Successful completion of 04 projects of similar nature and complexity (HVAC Works of Building) of **100 TR capacity** each during last 10 years. 05 marks for each project.	20
2.	02 projects of similar nature and complexity (HVAC Works of Building) in hand of **100 TR capacity** each during last 5 years. 7.5 marks for each project.	15
	Maximum Marks	35

Note:

i. The applicants must provide "Letter of Award" of in- hand projects and Taking Over/Completion Certificate of completed projects. No marks will be given to the projects for which above letter/certificate is not provided.

ii. Applicant shall provide complete information of the projects including scope of Constructor and cost of works etc.

iii. Proportionate marks will be awarded in case the number of completed/in-hand projects are less than required.

iv. Proportionate marks on the basis of share in JV agreement will be awarded for projects executed / in-hand as Joint Venture (JV).

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D.2 Personnel Capability

Personnel Capability of Construction firm will be evaluated on the basis of following Marks:

Sr. No.	Key Personnel	Marks (maximum)
1	Project Manager / MEP Engineer	7
2	HVAC / Mechanical Engineer	5
3	HVAC Installation Site Supervisor	4
4	Quantity Surveyor	4
	Total Marks Allocated	**20**

Note:

i. The applicant must provide verifiable proof of employment (i.e. appointment letters, latest salary slips) of the staff and attach detailed CVs & valid PEC Registration Certificates / Diploma / Certificates of the Engineer, DAE's staff.

Marks for key personnel will be given on the basis of following criteria:

A. Project Manager / Mechanical Engineer

(Mechanical Engineering degree Holder with experience of projects of similar nature)

Total Specific work Experience (years)	Marks
More than 20	6.0
15'-20	4.0
10'-15	2.0
05'-10	1.0
Masters degree	
Masters degree in Relevant Field	1.0
Maximum Marks	**7.0**

B. HVAC / Mechanical Engineer

(Mechanical Engineering degree Holder with experience of projects of similar nature)

Specific Experience (years)	Marks
More than 10	5.0
07'-10	4.0
05'-07	2.0
05 or less	0.0
Maximum Marks	**5.0**

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C. HVAC Installation Site Supervisor

(DAE Mechanical with experience of projects of similar nature)

Specific Experience (years)	Marks
More than 10	4.0
07-10	3.0
05-07	1.0
05 or less	0.0
Maximum Marks	**4.0**

D. Quantity Surveyor

(DAE with experience of projects of similar nature)

Specific Experience (years)	Marks
More than 10	4.0
05-10	3.0
05 or less	0.0
Maximum Marks	**4.0**

Equipment Capabilities

Equipment shall include the following:

Equipment Type & Characteristics	Required (Nos.)	Marks
Sheet Cutting Machine	01	2
Sheet Bending Machine	01	2
Sheet Rolling Machine	01	2
Flair Machine for Cu pipes	01	1
Electric Arc Bending Machine	01	1
Lock Former	01	1
Grooving Machine	01	1
Maximum Marks		10

Note:

i. Applicant must provide an undertaking to the effect that the aforementioned equipment is available with the firm and will be made available, as and when required, for the Project.

Financial Capability

The Bidder shall submit copies of annual audit reports for the last three years duly certified by the Chartered Accounts. Bank Line of credit and must indicate the soundness of the Applicants financial position.

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Sr. No.	Description	Maximum Marks Assigned	Criteria for Marks Obtained
1)	Available Bank Credit Line (updated)	05	• Three (03) Marks are given if the available bank credit line limit is equal to or above Pak Rs. 100 Million • One mark is given for every Pak Rs 40 million increase in the Credit Line. • Full Marks are given in case of limit ≥ Pak Rs 200 million
2)	Average Working Capital (updated)	15	• Nine (09) Marks are given if the working capital (updated) is equal to or above Pak Rs 200 million. • One additional (01) Mark is given for every Pak Rs 20 million increase in the working capital. • Full Marks are given in case of working capital ≥ Pak Rs 300 million.
3)	Average Annual Turnover in last 3 years	15	• Seven (07) Marks are given if the average annual turnover for last three years is equal to or above Pak Rs 250 million • One (01) additional Mark is given for every Pak Rs. 50 million increase in the average annual turnover. • Full Marks are given in case of Average Annual Turnover ≥ Pak Rs 400 million.
Joint Venture	**Total Marks Allocated**	**35**	

Joint Venture is not allowed.

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Contractor's Representative and Key Personnel

The Bidder must demonstrate that it will have a suitably qualified Contractor's Representative and suitably qualified (and in adequate numbers) Key Personnel, as described in the Specification.

The Bidder shall provide details of the Representative and Key Personnel and such other Key Personnel that the Bidder considers appropriate to perform the Contract, together with their academic qualifications and work experience. The Bidder shall complete the relevant Forms in the Bidding Forms.

Equipment

The Bidder must demonstrate that it has access to the key equipment:

[Specify requirements for each lot as applicable]

No.	Equipment Type and Characteristics	Minimum Number required
1 2		
3 4		
5		

The Bidder shall provide further details of proposed items of equipment using Form EQU in Section V.

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List of Recommended 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 sole opinion of the Engineer, are at least equal to or better than the equipment/ product offered by the recommended manufacturer.

It is to be noted by the Bidder that, the equipment/materials from the following recommended manufacturers/suppliers or approved equivalent source shall be allowed to be utilized on subject project provided that the proposed products meet the specified requirements of the documents. All equipment/materials shall be supplied from the Manufacturer's own Factory/Plant/Facility.

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. Any missing Manufacturer in this list can be approved by the Engineer as prescribed above.

No.	Equipment & Materials	Recommended Manufacturers & Suppliers	Country (Origin, Manufacturing, Assembling, Testing & Supply)
1	Air Cooled Roof Top Packaged Air Conditioners	BOREAS CARRIER DAIKIN DUNHAM BUSH LG MIDEA TRANE YORK	MALAYSIA/KOREA/CHINA
2	Fans		
2A	Tube Axial & Centrifugal Fans	AIR MECH AEROTECH GREEN HECK SASA METAL INDUSTRIES LOREN COOK	PAKISTAN, USA, SPAIN, UK, GERMANY, EUROPE.

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No.	Equipment & Materials	Recommended Manufacturers & Suppliers	Country (Origin, Manufacturing, Assembling, Testing & Supply)
		PEN BERRY NOVEES ELTA SISTEVEN SODECA ROSENBERG CASALS	
2B	Propeller Fans	PAK FANS CLIMAX MILLAT AIR MECH AEROTECH SASA METAL INDUSTRIES GREEN HECK LOREN COOK PENBERRY SISTEVEN ROSENBERG CASALS	PAKISTAN, USA, SPAIN, UK, GERMANY, EUROPE, TURKEY
3	Galvanized Iron Pipes	INTERNATIONAL INDUSTRIES LIMITED JAMAL PIPES	PAKISTAN
4	Duct Insulation & Sound Liners	AFICO IZOCAM KIMMCO KNAUF ARMAFLEX DURKFLEX KFLEX IZTOPRAK AEROFOAM ODE	KUWAIT, SAUDI ARABIA, TURKEY, UAE
5	Galvanized Iron Sheets	AISHA STEEL MILLS LIMITED INTERNATIONAL	PAKISTAN

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No.	Equipment & Materials	Recommended Manufacturers & Suppliers	Country (Origin, Manufacturing, Assembling, Testing & Supply)
		STEELS LIMITED	
6	Air Inlets & Outlets	EAP STEELCRAFT AIRQON AEROTECH	PAKISTAN
7	Paints	PAK PRIEMER ICI DULUX NIPPON MASTER BERGER	PAKISTAN
8	Fasteners, Hanger Rods, Rawal Plugs, Supports, Channels etc.	FISHER HILTI DIAMOND WALRAVEN SIKLA SPIT INKA MUNGO NORM INDEX	AS PER MANUFACTURER'S FACILITY
9	White Glue	FOSTER MOVILITH	USA, WEST EUROPE
10	Duct Sealants	DOW CORNING ZAHBIA	USA, TURKEY, PAKISTAN
11	Low Voltage Panels	SA ELECTRIC SIEMENS ELMETEC PEL BILAL SWITCHGEAR MESI CEECO JEI ELECTRECH QUALITY SWITCHGEAR M TECH	PAKISTAN

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No.	Equipment & Materials	Recommended Manufacturers & Suppliers	Country (Origin, Manufacturing, Assembling, Testing & Supply)
12	LV and Control Cables & Wires (600/1000V)	PAKISTAN CABLES PIONEER CABLES NEWAGE CABLES FAST CABLES	PAKISTAN
13	PVC Conduit, Fittings & Accessories	POPULAR TURKPLAST GALCO	PAKISTAN
14	Steel Conduit, Cable Trays, Fittings & Accessories	HILAL INDUSTRIES INTERNATIONAL INDUSTRIES LIMITED ASHRAF INDUSTRIES JAMAL NIB PIONEER	PAKISTAN
15	MCCBs, MCB & Magnetic Contactors	SCHNEIDER SIEMENS ABB LEGRAND TERASAKI PANASONIC TELEMECANIQUE	FRANCE, ITALY, GERMANY, JAPAN
16	ACBs & ELCBs	ABB SIEMENS SCHNEIDER TERASAKI LEGRAND	FRANCE, ITALY, JAPAN
17	Relays & Timers	FINDER INTER	ITALY, TURKEY
18	PH Relays	NOKIAN ENTES	FINLAND, TURKEY
19	Voltmeters & Ammeters	CIRCUITOR REVALCO INTER	ITALY, TURKEY
20	Current Transformers &	ENTES CIRCUITOR	ITALY, PAKISTAN

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No.	Equipment & Materials	Recommended Manufacturers & Suppliers	Country (Origin, Manufacturing, Assembling, Testing & Supply)
	Voltage Transformers	REVALCO	
		FICO	
21	Selector Switches & Push Buttons	LEGRAND KRAUS & NAIMER ABB BOSCH	SWEDEN, FRANCE, ITALY
		CLIPSAL	
22	Indication Lamps	REVALCO LEGRAND BRETER ABB	FRANCE, ITALY
		TELEMECANIQUE	
23	Terminal Blocks	LEGRAND	FRANCE, ITALY, JAPAN
		ABB	
		PHOENIX	
		CABOUR	
24	Programmable Logic Controllers	SEIMENS ABB	GERMANY, ITALY
25	Photoelectric EE Switches	NATIONAL PHOTOELECTRIC	JAPAN
		SOCOMEC	
26	LV Change Over Switches & Capacitors	DUCATI ABB	FRANCE, GERMANY, JAPAN, PAKISTAN
		AMBER	
		NOKIAN	
27	Isolators Switches	BRETTER	ITALY, GERMANY

NOTES

1. All equipment/materials must be supplied from authorized representatives and or sole distributors of the Manufacturers in Pakistan.

2. Manufacturer's authorization certificate must be provided.

3. Compliance to the aforementioned country (origin, manufacturing, assembling, testing & supply) for offered/supplied equipment/materials is mandatory. Approved equivalent may only be acceptable from same country of origin.

4. In case of any approved equivalent brand other than the aforementioned recommended manufacturers/suppliers, the Bidder shall submit the following additional information for

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prequalification purpose with the technical bid:
a. Approved equal brand shall have minimum 30 years of international experience and 5 years of local experience with authorized distribution in Pakistan.
b. Compliance statement of specifications from the manufacturer of the equipment/materials.

c. Comparison of each part/system of the proposed brand with one of the aforementioned recommended brands including quality certificates and test reports etc.
d. Approved equivalent brands shall be clearly mentioned in the technical bid by the Bidder including the aforesaid information complete in all respect. Approved equivalent bid will only be acceptable after review at the time of Bid Evaluation.

Authorized Signature and official Seal:

Name:

Date:

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

Scope of Works

The scope of work mainly comprises of Supply, Installation, Testing and Commissioning HVAC works for Amir Khan BOXING Academy and Hamidi Hall Pakistan Sports Complex Islamabad.

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Technical Specifications

Volume - II

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Drawings

Volume - III

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Supplementary Information

Not Applicable

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Bill of Quantities

Volume IV

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Technical Proposal

- **Site Organization**
- **Method Statement**
- **Mobilization Schedule**
- **Construction Schedule**
- **Equipment**

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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	Detail Particulars
		Degree/Diploma/Certificate PEC Registration for Engineers/DAE Certificate for Sub Engineers, Quantity Surveyors & Surveyors/NTC Registration for B.Tech Experience (Past & Present) 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	90 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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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	Nos
Project Manager / MEP Engineer	01
HVAC / Mechanical Engineer	01
HVAC Installation Site Supervisor	01
Quantity Surveyor	01

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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. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Required Equipment Type & Characteristics	Required (Nos.)
Sheet Cutting Machine	01
Sheet Bending Machine	01
Sheet Rolling Machine	01
Flair Machine for Cu pipes	01
Electric Arc Bending Machine	01
Lock Former	01
Grooving Machine	01

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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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.: [*insert number of Bidding process*]
Alternative No.: [*insert identification No if this is a Bid for an alternative*]

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

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;

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

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

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 [*insert the total price of the bid in words and figures, indicating the various amounts and the respective currencies*];

In case of multiple lots, the total price of each lot is [*insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies*];

In case of multiple lots, total price of all lots (sum of all lots) [*insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies*];

(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.")

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

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.: *[insert number of Bidding process]*
Alternative No.: *[insert identification No if this is a Bid for an alternative]*

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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EL12
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.: *[insert number of RFB process]*
Alternative No.: *[insert identification No if this is a Bid for an alternative]*

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]*
4. Bidder's JV Member's year of registration: *[insert JV's Member year of 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*]

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	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*]|

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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:**

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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	Year4	Year 5
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 to ITB 16 for the exchange rate

2. Sources of Finance

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

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

2. Financial documents

The Bidder and its parties shall provide copies of financial statements for years pursuant to Evaluation and Qualifications Criteria, Sub-factor 3.1. 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 financial statements for the _____ years required above; and complying with the requirements

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Form FIN – 3.2:

Average Annual Construction 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 Construction Turnover *			

* See Section III. 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 (Evaluation and Qualification Criteria)

Financial Resources		
No.	**Source of financing**	**Amount**
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)				. . . . .	
Each Partner:					
_____ (Name of Partner 1)				. . . . .	

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(Name of Partner 2)		.....	
(Name of Partner 3)		.....	
All partners combined	$\sum D$ – Sum of available financial resources net of current contract commitments for all partners	$\sum D$ –	

- 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:

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:				

[1] If applicable

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	Information
Address: Telephone/fax number 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

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.

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[Signature(s)]

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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

Formula for Price Adjustment

Not Applicable

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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" published by the Federation Internationale Des Ingenieurs – Conseils (FIDIC) and the following "Particular Conditions" which shall complement the General Conditions of the Contract.

An original copy of the above FIDIC publication i.e. "*Conditions of Contract for Building and Engineering Works Designed by the Employer*" must be obtained from FIDIC.

International Federation of Consulting Engineers (FIDIC)

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

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

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	**Defects Notification Period (DNP):** 365 days
2.	1.1.31	**Employer's name and address:** Director General, PSB Represented by Superintending Engineer, PSB Srinagar Highway, Near Abpara, Islamabad. Ph: 051-9202410
3.	1.1.35	**Engineer's name and address:** To be Nominated Later
4.	1.1.73	**Sections:** None
5.	1.1.84	**Time for Completion:** 90 days for whole of the Works
6.	1.3	**For notices** Procuring agency/Employer/ Engineer's Authorized representatives name and address: **Director General, PSB** Represented by **Superintending Engineer, PSB** Srinagar Highway, Near Abpara, Islamabad. Ph: 051-9202410

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		Address of Engineer for communications: To be Nominated Later Contractors Authorized representatives name and address: _____
7. 3.	1.4 1.4	**Governing Law;** The Applicable Law shall be: Laws of the Islamic Republic of Pakistan **Communication Language:** The Communication Language shall be: English
4.	1.5	**Documents forming the contract listed:** As specified in Clause 7.1
5	1.8	**number of additional paper copies of Contractor's Documents:** Six (06)
The Employer/ Procuring agency/Employer (GCC Clause 2)		
5.	2.1	Time for access to the Site: Within 14 days of Signing of Contract Agreement or Not later than the Commencement Date whichever is earlier.
The Engineer (GCC Clause 3)		
6.	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)		
7. 8. 9.	4.2 4.7.2(a) 4.22	Performance guarantee/ security will be in the form of bank guarantee from any Scheduled Bank in Pakistan or Insurance Bond from an Insurance Company with at least AA Rating from PACRA/VIS in the amount of 10% as a percentage of the Accepted Contract Price. **Clause 4.7 Setting out** Period for notification of errors in the items of reference: *28 (twenty-eight) days* **Contractor's Operations on site** Not Applicable

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Sub-Contracting (GCC Clause 5)		
10.	5.1(a)	Maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount): Forty percent (40%)
11.	5.1 (b)	Works for which sub-contracting is not permitted: None
Staff and Labour (GCC Clause 6)		
12.	6.5	Normal working hours 08 *(eight) hours.*
Plant, Material and Workmanship (GCC Clause 7)		
13.	7.2	Samples as required by the Engineer.
Commencement, Delays and Suspension (GCC Clause 8)		
14.	8.3	Number of additional paper copies of program: 03 copies
15.	8.8	Delay damages shall be payable for each day of delay shall be 0.12% 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.
16.	8.14	**Applicability of Incentives for Early Completion:** Not Applicable
Measurement and Valuation (GCC Clause 12)		
17.	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.
18.	12.3	Percentage of overheads, profit and taxes: 25%
Variations and Adjustments (GCC Clause 13)		
19.	13.4 (b) (ii)	Percentage rate to be applied to Provisional Sums for overhead charges, profit and taxes is: Twenty five percent (25%)
20.	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)		
21.	14.2	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
22.	14.2.3	Repayment of Advance payment: Deduction shall be made at the rate of 20% or as per actual value of the Works executed of each IPC as provided in paragraph (i) of Sub-Clause GCC 14.3, starting from 1st IPC against work done, with

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		validity of Bank Guarantee against Mobilization Advance issued by any Scheduled Bank of Pakistan, provided that the advance payment shall be completely repaid prior to the time when 90% of the Accepted Contract Amount has been certified for payment. It may be more than 20% in the last instalment to ensure full repayment.
23.	14.3	Period of payment: one month
24.	14.3(iii)	Percentage of retention: Seven percent (07%) Limit of Retention Money Five percent (5%)
25.	14.5(b)(i)	Plant and Materials: If Sub-Clause 14.5 applies: Plant and Materials for payment when shipped Not Applicable
26.	14.5(c)(i)	Plant and Materials: Plant and Materials for payment when delivered to the Site Not Applicable.
27.	14.6.2	Withholding (amounts in) an IPC Withholding (amount in) an IPC: 10% of the Accepted Contract Amount.
28.	14.7(a)	Period of payment of Advance Payment to the Contractor Fourteen (14) days for payment of Mobilization Advance
29.	14.7b(i)	Period for the Procuring agency/Employer to make interim payments to the Contractor under Sub-Clause 14.6 (Interim Payment): 14 days
30.	14.7b(ii)	Period for the Procuring agency/Employer to make interim payments to the Contractor under Sub-Clause 14.13 (Final Payment): 56 days
31.	14.7(c)	Period for the Procuring agency/Employer to make final payment to the Contractor: 56 days
32.	14.8	financing charges for delayed payment: Nil
33.	14.11.1(b)	Number of additional paper copies of draft Final Statement: four (4)
34.	14.15	Currencies of Payment The Contract Price shall be paid in Pakistani Rupees (PKR).

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35.	14.15 (a) (i)	Local Currency: 100% Foreign Currency: 0%
36.	14.15 (c)	Local Currency: 100% Foreign Currency: 0%
37.	14.15 (f)	Rate of exchange: As stated in Appendix-C.
38.	17.2 (d)	**Liability for Care of the Works** **Nil**
		Insurance (GCC Clause 19)
39.	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 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
40.	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
41.	19.2.1(b)	Additional amount to be insured: 15% of Accepted Contract Amount
42.	19.2.1(iv)	List of Exceptional Risks which shall not be excluded from the insurance cover for the Works: Nil
43.	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
44.	19.2.3(a)	amount of insurance required for liability for breach of professional

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		duty: full replacement value of the Works to be designed by the Contractor
45.	19.2.3(b)	Insurance required against liability for fitness for purpose: Yes
46.	19.2.3	Period of insurance required for liability for breach of professional duty: Until the date of issuance of Performance Certificate
47.	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
48.	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)
49.	21.1	As and when required (Ad-hoc DAB)
50.	21.1	Three members to be appointed.
51.	21.1	List of proposed members of DAB - Proposed by Employer/ Procuring agency/Employer 1. …….. 2. …….. 3. …….. - Proposed by Contractor 1. …….. 2. …….. 3. ……..
52.	21.2	Appointing entity (official) for DAAB members: Chairman Pakistan Engineering Council (PEC) from the list of PEC approved arbitrators published at its website.
53.	21.6	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: **Islamabad**

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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 & Price Bid.
(d) the Particular Conditions Part A - Contract Data.
(e) the Particular Conditions Part B - Special Provisions.
(f) the General Conditions;
(g) the Specification Part A - Specific Provisions.
(h) the Specification Part B - Technical Provisions.
(i) Bill of Quantities (Schedule-D to Bid)
(j) the completed Schedules to Bid including Bill of Quantities.
(k) the Drawings; and
(l) any other documents forming part of the Contract.

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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) 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

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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 text is deleted and substituted with the following:

The entity issuing the Performance Security and its form shall be as under

"The Contractor shall provide Performance Security valid till the end of Defects Notification Period, to the Employer in the prescribed form. The said Security shall be furnished or caused to be furnished in favour of the "**SUPERINDENTING ENGINEER, PSB**" by the Contractor within twenty-eight (28) days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 10% of the Contract Price stated in the Letter of Acceptance. Such Security shall be in the form of bank guarantee from any Scheduled Bank in Pakistan or Insurance Bond from an Insurance Company with at least AA Rating from PACRA/VIS.

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

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"

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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 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**	Sub-Contracting is not allowed

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5.2	**Nominated Subcontractors**	Sub-Contracting is not allowed
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."
6.13	**Foreign Personnel**	The following Sub-Clauses 6.13 to 6.26 are added at the end of Sub-Clause 6.12 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

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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 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

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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 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 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

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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"

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 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 (e) delete the text of 5th paragraph "Each new rate . . . . relevant matters" and substitute with the following:

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"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

"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*]."

13.7 Adjustments for Changes in Cost

Not Applicable

Add the following Sub-Clause

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

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(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."

14.3 Application for interim Payment

Add following text after para (x) of this Sub-Clause.

"Unless otherwise agreed, the Contractor shall be paid in the following manner, the Contract Price adjusted to give effect to such additions thereto and such deductions there from as are provided in the Contract

Plant and Equipment Supplied from Abroad (outside the Employer Country)

For imported equipment and materials (to be imported for the permanent works) the payment conditions shall be as under

(i) 25% (Twenty-Five Percent) of the quoted rates of imported items in schedule of prices (Bill of Quantities) shall be paid as advance against Insurance Guarantee from PCRA/AA rated Insurance Company in Pakistan, after the Contractor has obtained necessary approval of equipment and materials from the Engineer.

(ii) 40% (Forty percent) of the quoted rates of imported items in schedule of prices (Bill of Quantities) shall be paid against Insurance Guarantee from PCRA/AA rated Insurance Company in Pakistan after (a) the approval of Technical Submittals and (b) after the Contractor has established his L/C or Banking Contract for equipment and materials & submission of Verified L/C or Banking Contract documentation to the Employer / Engineer

(iii) 15% (Fifteen percent) of the quoted rates of imported items in schedule of prices (Bill of Quantities) shall be paid after the Contractor has obtained necessary approval / verification for Factory Acceptance Test of equipment and materials from the Engineer after confirmation of Equipment Manufacturer and Pre-Shipment Inspection at OEM premises

(iv) 10% (Ten percent) of the quoted rates of imported items in schedule of prices (Bill of Quantities) shall be paid on submission of negotiated shipping documents and safely arrival of equipment / material at Karachi Port after the witness as specified in Sub-Clause 20.6 of Conditions of Contract.

(v) 05% (Five percent) of the quoted rates of imported items in schedule of prices (Bill of Quantities) shall be paid on delivery of equipment / material at site and issuance of

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inspection certificates and approval by the Engineer

(vi) 05% (Five percent) of the quoted rates of imported equipment/material in schedule of prices shall be paid on completion of installation, testing and commissioning of the equipment and system and issuance of taking over certificate by the Engineer.

Plant and Equipment Supplied from within the Employer's Country

The Contractor shall submit to the Engineer after the end of each month six copies, each signed by the Contractor's representative approved by the Engineer a statement, in such form as the Engineer may from time to time prescribe, showing the amounts to which the Contractor considers himself to be entitled up to the end of the month in respect of

a) the value of the Permanent Works executed,

b) any other items in the Bill of Quantities including those for Contractor's Equipment, Temporary Works, dayworks and the like, and

c) any other sum to which the Contractor may be entitled under the Contract or otherwise

14.7 Payment

Delete "." At the end of last paragraph and add the 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 i.e Nil."

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 2004."

15.2.3 After Termination

The word "and" at the end of sub-paragraph (iii) 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

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

"The Employer shall be entitled to sell any of the Contractor's

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	Contractor's Default	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 (e) is deleted and replaced with: "(e) 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 Employer's Equipment]*, and (f) 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 (e) 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

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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 sole member") or three suitably qualified embers. 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*], 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.
21.4	**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".

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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

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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 Form of Bid and the Price Schedule submitted by the Bidder:
   (d) the Works Requirements:
   (e) the Technical Specifications:
   (f) the Drawings:
   (g) the General Conditions of the Contract
   (h) the Special Conditions of Contract.
   (i) the completed schedule including Bill of Quantities: and
   (j) [*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.

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Signed, sealed, delivered by the _____ (for the Procuring agency/Employer)	Signed, sealed, delivered by the (for the Contractor)
Witness to the signatures of the Procuring agency/Employer	Witness to the signatures of the Contractor ....

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

NESPAK ISLAMABAD

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

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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.

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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)]

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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

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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]

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

NESPAK ISLAMABAD

PAKISTAN SPORTS BOARD (PSB)

REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD

PACKAGE 5

HVAC WORKS FOR AMIR KHAN BOXING ACADEMY AND HAMIDI HALL

BIDDING DOCUMENTS
VOLUME – II

TECHNICAL SPECIFICATIONS PART-A – SPECIAL PROVISIONS
TECHNICAL SPECIFICATIONS PART-B – TECHNICAL PROVISIONS

November, 2026

National Engineering Services Pakistan (Pvt.) Limited
NESPAK House, Sector G-5/2, Islamabad. Tel: 051-9221910-13, Fax: 051-9221914

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TECHNICAL SPECIFICATIONS
PART - A – SPECIAL PROVISIONS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SPECIAL PROVISIONS

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PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SPECIAL PROVISIONS HVAC WORKS

SP-01 GENERAL

SP-01.1 Location of the Project

The HVAC system shall be installed in the following buildings of Pakistan Sports Complex. Islamabad;

- Amir Khan Boxing Hall
- Hamidi Hall

SP-01.2 Building for the Project

The building is already constructed. The building houses the competition hall and spectator areas.

The Contractor is advised to visit site to familiarize himself with the Building Layout. The contractor is strongly suggested to visit the site for realistic bid with reference to scope of work under this Contract.

SP-01.3 HVAC System Concept

a) Type of System:

Roof Top Package Air Conditioners (Heat Pump Type) had been adopted for these buildings. Same HVAC system shall be used for cooling and heating in summer and winter season respectively as per requirement.

b) Plant Operation during Power Failures

As the cooling will be required continuously during power break down or load shedding so all HVAC equipment shall be connected to emergency power.

SP-01.5 Service Conditions for Auxiliaries

a) Power Supply

Electrical Circuit Voltages:	
Nominal, 3-Phase:	415 volts
1-Phase:	240 volts
For equipment ratings, 3-Package:	400 volts
1-Phase:	230 volts

Fluctuation in voltage applied (+/-) 10% to equipment rated voltage.

Frequency: 50 HZ

b) Water Disposal:

Floor drains are connected to sewerage system of the Building

SP-01.6 Units

The units used in these specifications are as under:

Unit System: SI/British/FPS

Gauge: US Gauges as per ASTM

TR: Ton of refrigeration equivalent to 12000 BTU/H (12 MBH) or 3516 W

SP-02 WORK BY THE CONTRACTOR

SP-02.1 Scope of Work

a) The work under this Contract comprises of all HVAC works including supply. installation, balancing, testing, commissioning and operations & maintenance during defects liability period.

b) The Contractor shall furnish all labour. materials, equipment tools, appurtenances, services, temporary work and storage necessary to completely supply. install, test, commission, and maintain the heating, ventilating and air-conditioning (HVAC) system, all in the perfect operating conditions in accordance with these Specifications and Drawings. The Contractor shall also adjust, balance, re-adjust all the air systems as specified and shown. The Contractor shall commission, operate and maintain all the systems for a period specified in Clause SP-22 under Defects Liability Period

c) The complete civil work as mentioned in schedule of price and any relevant civil work require to complete the job is included in contractor scope of work.

d) The contractor shall plan and coordinate his activities and schedules so as not to interfere with the work of other contractors.

The contractor shall inform for the schedule of any construction activity well in advance.

If any part of the work is damaged or has to dismantle or redone due to negligence/omission/incorrect position of the embedment etc. as part of the contractor, all such loses/expenses shall be borne by the Contractor.

e) The Specifications are only general guidelines and by no means cover details of each equipment. These only spell out the intent of the requirement. The details have to be provided by the Contractor along with details of performance, construction and technical literature with the Bid. The specifications are to be read in conjunction with the Drawings.

All equipments and materials shall be brand new bearing stamped ratings as required by Equipment Schedules and must be approved by the Engineer prior to their use. Any doubts about the practicability and implementation of Specifications and details shown in the Drawings must be expressed along with submission of Bid. Inability of the Contractor to implement these specifications after the acceptance of the Contract shall be considered breach of Contract.

SP-02.2 Services by the Contractor

a) Erection Supervisor

The Contractor shall provide competent Erection Supervisor to direct and be responsible for the erection. starting and operation of the Equipment supplied by the Contractor until issue of Substantial Completion Certificate. Further details concerning Erection Supervisors are covered in Clause SP-17, "Erection Supervisors and Operating Staff". In addition, the Contractor shall also provide services of Factory Engineer authorized by manufactured to direct and supervise the installation. testing & commissioning.

b) Operation during Defect Liability Period.

The Contractor shall operate service and maintain HVAC system for a period mentioned in and as per requirements of Clause SP-22, "Defect Liability Period". The Contractor shall provide all personnel for operation and maintenance including one Supervisor. Qualifications, experience and number of all these personnel shall be subject to the Engineer's approval.

c) Training of Employer's Operative Personnel

The Contractor shall arrange for free of cost on-site training of operative personnel, nominated by the Employer, in the operations and maintenance of all HVAC equipment and system. The period of training shall not be less than fifteen (15) days.

The group of operative personnel will comprise of Engineers/Supervisors and Technicians. The training shall be imparted by a qualified Engineer having at least eight (08) years experience in the operation and maintenance of similar HVAC systems.

The Trainer shall fully orient the group with the actual system and impart thorough training in the operation and maintenance of the system and equipment with the help of drawings, charts, hand-outs, diagrams, video aids, lectures, etc. Details and time of training shall be approved by the Employer/Engineer before training is commenced.

SP-02.3 Erection Plant

Under this clause the Contractor shall provide erection plant and tools for his own use during erection period only· he would take back these tools on completion.

Tools for maintenance after completion are to be provided under Clause TP-10-05.

The Contractor shall furnish special erection plant and tools in accordance with the requirements of Clause SP-15, "Fabrication, Erection Testing and Maintenance Tools Plant and Instruments.

SP-02.4 Related Works

The Contractor shall provide all works related to HVAC system, whether specifically mentioned or not, except those specifically stated in exclusion Clause SP-03 "Work Not Included". These related works shall include, but not be limited to:

a) Power supply and earthing shall be provided by the Contractor and incoming power feeders and earth continuity conductors shall be terminated at locations as shown on the Drawings and/or as stated in the Technical Provisions, Section 7, Electrical Equipment and Controls. All electrical works from these points onward shall be the responsibility of the Contractor.

b) All works related to water and cooling coil condensate disposal from HVAC system up to nearest floor drains shall be the responsibility of the Contractor

c) Cutting, patching and repairing in accordance with Section 1.0 of the Technical Provisions.

d) Providing written information regarding location and sizes of door louvers, where required, to the persons responsible for door louvers, through the Engineer, if required. This information shall be provided within thirty (30) days of issue of the Engineer's Order to Commence Work.

e) All wood-work required for satisfactory completion of the project as specified except decorative wood work provided to conceal HVAC equipment.

f) Providing shop drawings at scale (1:50) and other written information regarding Concrete Pads and foundations for HVAC equipment to the Civil Contractor through the Engineer. Catalogue cuts showing foundation details will not be accepted.

g) Providing steel frames for inertia pads and cork sheet/neoprene sheet for other pad.

h) All foundations for HVAC equipment including concrete foundations, housekeeping pads and concreting for inertia pads (where required) shall be provided by the HVAC Contractor.

i) Coordinating HVAC installation with other trades work, by way of study of other trades drawings and pointing out the areas of conflict to the Engineer before installing items of HVAC system.

j) Protective fencing around HVAC equipment, if required.

SP-03 WORK NOT INCLUDED

Work listed hereunder which may be required for satisfactory completion of the Project are not included in this Contract and will be provided by the Employer or other contractors appointed by the Employer

a) Decorative concealment of HVAC equipment and wood paneling.
b) Door Louvers

SP-04 DESIGN CONDITIONS

HVAC System has been designed with conditions listed hereunder.

SP-04.1 Outside Design Conditions

a)	Summer dry Bulb Temp (Max.)	112 °F
b)	Wet Bulb Temp:	82 °F
d)	Daily range: (Max.)	23.7 °F
e)	Winter Dry Bulb Temp:	32.4 °F
f)	Wind Velocity:	
	• Summer	16 KPH
	• Winter	24 KPH
g)	Climate: Tropical with dust storms in April-May-June and torrential Rains in July - August - September.	
	i) Latitude:	34 Degrees North
	ii) Longitude	73 Degrees East
	iii) Elevation	1668 ft

SP-04.2 Inside Design Conditions

a) Summer dry bulb	73 °F – 79 °F
b) Summer RH bulb	50% - 60%
c) Winter dry bulb	68 °F – 74 °F

d) Noise Criteria.

Air inlets/outlets shall be selected by the Contractor to obtain the following noise criteria:

- Gymnasium/ Boxing Hall NC 35-45

SP-04.3 Air Filtration

Air filtration based on ANSI/ASHRAE Filter Test Standards 52.2-2017, " Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size " or latest version

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SP-05 DRAWINGS, EQUIPMENT SUBMITTALS, INFORMATION MANUALS, SAMPLES & CONTRACTOR'S OTHER SUBMISSIONS

SP-05.1 General

All drawings, other information and samples must be supplied to the Engineer as laid down in these Specifications and as and when agreed during site meetings. in the Progress Chart or as instructed by the Engineer.

The Contractor shall submit, for approval, detailed submittals as specified and no material or equipment may be delivered to the site or installed until the Contractor has in his possession with the approved Data Sheet, Catalogue cuts or samples of particular material. Approval rendered on submittals shall not be considered as a guarantee of measurements or building conditions.

Where submittals are approved, said approval does not in any way relieve the Contractor from his responsibility for necessity of furnishing material or performing work as required by the Drawings and Specifications.

Failure of the Contractor in providing submittals in ample time for checking shall not entitle him to an extension of the Contract time and no claim for extension by reason of such default will be allowed.

SP-05.2 Omitted Particulars

All works and matters omitted from the Contract but which may reasonably be implied or inferred from them and in the opinion of the Engineer obviously are necessary for the efficiency, stability, completion and maintenance of the works and which are ordered by the Engineer to be carried out shall be executed by the Contractor accordingly as if they had been expressively described in or shown on the Contract documents and the costs thereof shall be deemed to be included in and covered by the Contract Price.

SP-05.3 Drawings

The Bidding Drawings show the Scope of Work to be performed by the Contractor. These Drawings shall not be used as a basis for fabrication, construction or installation but shall be used for estimation for bidding purpose only. These drawings are not to be considered defining the design of HVAC equipment to be furnished or defining the exact details of the installation under this Contract, but are only illustrative of the Specifications and HVAC System and show the general layout of the equipment forming part of HVAC System and schematic diagrams explaining the system flow, controls and sequence of operation. These drawings are not to be scaled.

These Drawings do not show every offset, bend or elbow which may be required in the piping or ductwork for installation in the space provided. The routes and sizes (if shown) of ductwork, piping, air inlets and outlets shown on these Drawings are subject to change depending upon the make of major HVAC equipment to be provided by the Contractor These design parameters shall be adjusted at the shop drawing stage

Work shown on the HVAC Drawings and not mentioned in the Specifications, or described in the Specifications without being shown on the HVAC Drawings, shall nevertheless be held to be included in the contract in the

same manner as if they had been specifically shown upon the Drawings and described in the Specifications.

SP-05.4 Drawings Supplied by Engineer

The Engineer may supply to the Contractor after signing the contract working drawings/detail drawings and instructions as may be necessary for preparing shop drawings and for the guidance of the Contractor in the construction, completion and maintenance of the works, and the Contractor shall execute, obey and be bound by the same.

The Contractor shall not be entitled to any payment in addition to the Contract Price in respect of any work shown or directed to be done by such working/detail drawings or instructions unless the Engineer shall have given and approved a variation order for the same.

Any additional drawings found necessary or desirable by the Contractor to show different combinations of drawings supplied by the Engineer shall be prepared by the Contractor at his own expense. The Contractor shall carefully check all drawings and inform the Engineer of any errors or omissions discovered. The Contractor shall be furnished with one copy of all detail drawings and graphic instructions prepared by the Engineer. Additional copies, within reasonable quantity, will be furnished to the Contractor, upon request, at cost.

The Contractor shall be furnished with one copy of all textual instructions as may be issued by the Engineer.

SP-05.5 Shop Drawings

The Contractor shall make detailed analysis of the requirements of the works. Based upon such analysis and working drawings supplied by the Engineer, he shall revise and amplify the Drawings and shall prepare detailed Shop Drawings at his own cost for complete HVAC System and Equipment. Initially he shall submit 3 preliminary copies each of all such Shop Drawings to the Engineer for obtaining approval Once basic agreement is reached with the Engineer regarding the details then the Contractor shall submit 3 copies each of all such Shop Drawings and one copy to the Engineer for obtaining approval of the Engineer. After obtaining approval and after having in possession these approved Shop Drawings, the Contractor shall use these Shop Drawings for fabrication, construction and installation.

The work described on any shop drawing submitted shall carefully be checked by the Contractor for all clearances, field conditions, maintenance of architectural conditions and proper coordination with all trades on the job. To this end, the Contractor during the shop drawing stage, shall ensure that he receives drawings of all other trades that might interfere with the proper installation of his work. No payment shall be made for any variations or alterations on site due to lack of knowledge of other trades. Any unresolved conflict between trades shall be referred to the Engineer for decision.

Equipment layout is to be detailed on shop drawings, showing the exact method of installing and clearly illustrating components to be used in making all connections.

The Contractor shall submit shop drawings of all sheet metal work, for approval, before work is fabricated and installed. Ductwork drawings must

show clearances between ductwork and masonry. All dampers, splitter dampers, fresh air inlets, exhaust air outlets, connections to equipment and methods of support and any other details necessary for the satisfactory installation of the system must be indicated. Each type of grill, register, diffuser and louver is to be referenced in a schedule and the type and size clearly indicated at each location. Taper and flat sides of ductwork at all transitions must be indicated, and all equipment piping and ductwork must be located exactly by showing exact dimensions with column lines or other reference lines.

Duct bottom height from finished floor level shall be marked with every change in level.

Position of hangers and supports with type and method of installation of each hanger shall be given, detailing the type of hanger fixing with a reference number for each type.

Piping drawings must be fully detailed, showing all piping in double line and indicating the precise size of fittings, valves and equipment. Positions of hangers and supports with reference numbers must be given showing the type and method of installation of each hanger detailing the type of hanger fixings with a reference number for each type.

All general layout drawings shall be drawn to 1:50 (1":1/4") scale. Details of hangers, methods of fixing of pipes and ducts, detailed cross section of pipe, ducts and risers, details of control and piping hook-ups to equipment shall be drawn to 1:10 (1":1") scale.

The Contractor shall prepare Drawings and Schedules showing precise details of holes in concrete, masonry, etc. and necessary sleeves required for passage of ducts and fitting of grills, registers, diffusers, louvers, equipment supports etc. Drawings and Schedules, approved by the Engineer must be available before any structural work requiring holes or other modifications, is constructed.

Signed and approved drawings shall not be departed from unless a signed variation order or site instruction is issued in writing by the Engineer. Drawings returned to the Contractor for alteration or amendments are to be resubmitted for approval.

Amended or altered drawings shall show the nature of the amendment or alteration in a revision block on the drawing, together with revision number or letter and the date of the revision.

The Contractor shall be responsible for any discrepancies, errors or omissions in the drawings and other particulars supplied by him whether such drawings and particulars have been approved by the Engineer or not, provided that such discrepancies, errors, or omissions are not due to inaccurate information or particulars furnished in writing to the Contractor by the Engineer.

SP-05.6 As-Built Drawings

The Contractor shall supply to the Engineer a set of "As-Built" drawings showing the Contract works as installed, together with any other information necessary for operation and maintenance. Three copies of each drawing

(scale as per shop drawing) and other information shall be supplied, along with a reproducible and a soft copy.

SP-05.7 Manufacturer's Data

Manufacturer's performance data, certified factory drawings and/or curves of apparatus giving full information as to capacity, performance at different operating and ambient conditions, dimensions, materials, electrical data and all information pertinent to the adequacy of the submitted equipment shall be submitted for approval. One original and 2 copies of catalogues and other information shall be submitted

Manufacturer's names, sizes, catalogue numbers and/ or samples of all materials shall also be submitted for approval.

Orders for equipment submitted for approval must be accompanied by relevant drawings, curves, technical data, catalogues and samples. Where data certified drawings or other required information is not available until after orders have been placed, the Engineer shall give provisional approval until all requested drawings and information have been supplied to the Engineer and approved by him. It is the Contractor's responsibility to ensure that all necessary information is supplied to the Engineer in accordance with the progress of works.

Should the Engineer give provisional approval only for an order due to lack of complete information and should the missing information not eventually meet with the approval, the Engineer shall not be held responsible for any delay incurred. For equipment where information from the manufacturers is likely to be delayed, it is essential that the Contractor places provisionally approved orders at the earliest possible date so as to ensure approval of orders in complete conformity with the progress of the works

Submittals and shop drawings should, as far as possible, be complementary so that drawings and submittals can be cross-checked.

SP-05.8 Samples

Contractor shall provide at his cost, samples of materials, instruments, gauges and electrical items, for approval by the Engineer before order is placed for the same. Engineer may waive this requirement, if detailed published catalogues submitted by the Contractor provide sufficient information for approval. These samples shall include, but not limited to:

i) G.I. Sheet
ii) Duct insulation and covering
iii) Insulation adhesive and tapes
iv) AI/AO Diffusers and OA/EA louvers
v) Power and control cables
vi) Electrical items; push buttons, HOA & toggle switches, pilot lamp, contactor, relays, circuit breakers and isolating switches
vii) Vibration isolating springs,
viii) Duct hangers and rollers
ix) Electrical conduits and fittings
x) Paints
xi) Anchor bolts, studs, etc. for hanging arrangements
xii) Any other item required by the Engineer

SP-05.9 Copies of Drawings and Specifications

One set of Bidding Documents and one (01) set of Drawings will be issued by the Employer to the Contractor free of cost after award of Contract. Additional sets will be provided at cost upon written request to the Engineer by the Contractor.

SP-05.10 Sound Absorption Data

The Contractor shal provide data for sound absorption from HVAC equipment. air terminals etc. to ensure NC ratings as specified in SP-04.2

SP-05.11 Photographs and Progress Reports

The Contractor shall arrange, at his cost, color photographs of Works in progress at Site. At least six photographs per month shall be taken from approved locations, commencing with the first month up to the completion of the Works. A professional camera shall be used The Contractor shall submit, not later than seventh of each month, a brief report indicating progress of Works to date along with these photographs.

SP-06 APPROVAL OF MATERIALS AND EQUIPMENT

As soon as practicable after the award of Contract, the Contractor shall submit for the approval of the Engineer specifications, drawings, catalogue - cuts, diagrams and other descriptive data for all materials, components and equipment which the Contractor proposes for use under this Contract. For certain materials and equipment, data may be required to be submitted in accordance with a detailed form furnished by the Engineer. Items submitted shall be properly labeled to indicate the Contract number, project, manufacturer. source of supply. Contract Item number. and other data required by the Specifications All items shall be submitted in sufficient time to permit proper consideration and action thereon without delaying the construction schedule. These data shall include original copies of proforma invoices for placing orders, a type written specification sheet of each SOP item, and technical literature (complete bound published catalogue) with relevant portions highlighted by a marker Accessories to be included shall clearly be marked in catalogue and indicated in specification sheet.

SP-07 TIME FOR DELIVERY

All equipment plant and machinery shall be delivered at Site on such dates so as to ensure adherence to scheduled dates stated in Programs of works submitted by the Contractor and approved by the Engineer subsequent to the award of contract The Contractor shall keep the Engineer informed of the progress of the shipment and notify them approximately 3 weeks in advance, in writing, as to when the equipment will be ready for inspection at Site by the Engineer and shall supply lists covering each consignment in sufficient detail to enable Engineer to check the contents of the packages, if he so desires.

SP-08 STANDARDS AND CODE REQUIREMENT

SP-08.1 All equipment and materials under HVAC Scope of Works shall be furnished in conformity with the latest edition of Applicable Standards of ASME, ASHRAE, ARI, SMACNA, TIMA. AMCA and applicable Government and Local Codes governing the same. In case of conflict, the strict requirements

shown/specified shall govern. All equipment shall be rated and tested as per standards listed in ASHRAE Handbook (latest Edition).

SP-08 2 Abbreviations for Codes and Standards referred in the Contract are as under:

1) ASME - American Society of Mechanical Engineers
2) ASTM - American Society for Testing & Materials
3) ASHRAE - American Society of Heating, Refrigerating and Air-conditioning Engineers
4) NFPA - National Fire Protection Association. USA
5) AHRI - Air-conditioning and Refrigeration Institute, USA
6) SMACNA - Sheet Metal and Air-conditioning Contractors National Association, USA
7) CTI – Cooling Tower Institute
8) EUROVENT – European Committee of Ventilating Equipment Manufacturers
9) GOVERNMENT - Government of Pakistan
10) LOCAL Local authorities of the city where the Project is located
11) I.E.E. - Institute of Electrical Engineers, London
12) NEMA - National Electrical Manufacturers Association, USA
13) AMCA - Air Moving and Control Association Inc., USA
14) P.S. - Pakistan Standards.
15) B.S. - British Standards.
16) TIMA - Thermal Insulation Manufacturer's Association, US

SP-09 STANDARDS OTHER THAN THOSE SPECIFIED

Where the specifications provide requirements for material or equipment by specifying a standard such as for example, one of the American Society of Heating. Refrigerating and Air Conditioning Engineers 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 atleast equal to the requirements of the standards specified. The Contractor may propose to the Engineer an equivalent standard other than that specified. in which case he shall submit the proposed standards and all other information to demonstrate and prove his proposed standard is equivalent in all significant respects to the standard specified. All submissions must be made in the English language.

SP-10 PERMIT

The Contractor shall secure and pay for any necessary approvals, permits and inspections from Government or other controlling agencies where applicable as required by law, before commencing any work so as to avoid all delays during erection and turn over the official records of granting of permits to the Engineer. No reimbursements shall be made for such payments.

SP-11 SHOP INSPECTION, DAMAGES AND MATERIAL ORDER

SP-11.1 Inspection

SP-11.1.1 Inspection at Factory Premises

All major equipment to be supplied under this Contract which has been manufactured or shop-assembled in or outside Pakistan shall be subject to

inspection (if the Employer so desires) by two (02) engineers of the Employer and two (02) engineers of the Consultant at its point of original manufacture or final shop assembly before its dispatch to Site. The Contractor shall make necessary arrangements and provide all the facilities required for such inspection. The visa processing cost of travel, boarding and lodging of both the Employer and Consultant's authorized representatives i.e. engineers shall be the responsibility of the Contractor.

The following equipment shall be inspected and tested at the manufacturer's facility

1) Air Cooled Roof Top Packaged Air Conditioners (PACs) (Imported)
2) Electrical & Control Panels (Local)

For local items inspection. Contractor will pay Rs. 2000/Day (Daily Allowance) in addition to cost of traveling, boarding or lodging two (02) engineers of the Employer and two (02) engineers of the Consultant for the subject inspection.

For imported equipment. the detail requirements are mentioned below:

a) The Contractor shall import the equipment, preferably on invoice issued by the local distributor. Trans-shipment will not be allowed. The Contractor may import the equipment without involvement of local distributor provided he fulfills following conditions:

A certificate from the manufacturer on original stationery be furnished along with equipment submittal for approval, certifying that the manufacturer will be responsible to provide after-sale service through his authorized local representative. The certificate should carry the name and location of the project as well as the name and address of the authorized local distributor.

b) The Contractor shall arrange at his own cost factory visit(s) for pre-shipment inspection of PACs. Two (02) Engineer's representative and two (02) Consultant's representative accompany with Contractor's representative will visit manufacturer's premises. Club Class Air-fare to and from inspector's home town, boarding and lodging, and transport for two persons shall be Contractor's responsibility. The Contractor shall arrange visa for the inspectors and all formalities and costs in this respect shall also be the Contractor's responsibilities.

In addition, the Contractor shall provide daily allowance in US$ for out-of-pocket expenses at 200 US $/day/person. The number of days shall be actual days spent in travel calculated from the dates of travel from and to the home town of the concerned inspector, but not less than five (5) days. The US$ in cash shall be provided before start of travel from hometown.

c) Technical submittal furnished in accordance with Contract provisions shall include:

Manufacturer's computer selection sheet, in original on Manufacturer's stationery stating, besides other information project name and location, make, country of origin and source of supply, as per Contract Clause SP-06, and as stipulated in Equipment Schedule for all equipment.

Manufacturer's Warrantee Statement on Manufacturer's stationery in original shall be submitted.

Manufacturer's confirmation on his stationery in original, acknowledging the condition that no trans-shipment would be allowed, Warrantee Statement will be part of shipping documents, and shipment will be subject to pre-shipment inspection and witnessing of performance test by Two (02) Employer's representative engineers and Two (02) Consu tant's representative engineers at Manufacturer's factory. The Acceptance Certificate by Engineer's Representative will be part of shipping documents.

After approval of Technical Submittal for all equipment, following documentation shall be furnished.

- Attested copy of Letter of Credit (price portion may be blanked off).
- Manufacturer's confirmation on his original stationery, that the order has been entered for production. Project name, location and expected shipment date be stated

d) In case of absence of pre-shipment inspection for any valid reason wh ch is not in control, Engineer may advise 3rd party inspection/testing or will deduct suitable amount of pre-shipment inspection or direct the Contractor to change the make/country of origin of the equipment if so required.

e) The Contractor is required to fill the rates of pre-shipment inspection of PACs in the respective item of BOQ.

SP-11.1.2 Inspection at Karachi Port

All major imported equipment (PACs) will be inspected at Karachi port. The Contractor shall make necessary arrangements and provide all the facilities required for such inspection. The cost of travel, boarding and lodging of Employer's authorized representative engineers and the Consultant's engineers shall be the responsibility of the Contractor. In case of unavailability of such inspection, Engineer reserves the right to deduct suitable amount from Contractor's payment and subsequent inspection at dry port will be additional responsibility of the Contractor up to Engineer's satisfaction.

SP-11.2 Material Orders

Triplicate copies of material or equipment orders required in this Contract shall be furnished to the Engineer. All orders shall state the specification designation under which the material is to be furnished and shall bear reference to the drawing number, if any, pertinent thereto. Orders shall also state that material is subject to inspection and testing and shall show the required date of delivery of the material to destination.

SP-11.3 Acceptance of Materials

The acceptance of any material or equipment prior to shipment shall in no way relieve the Contractor of any of his responsibilities for meeting all of the

requirements of the specifications and shall not prevent subsequent rejection if such material or equipment is later found to be defective.

SP-11.4 Damages, During Transportation, Storage and Installation

The Contractor shall be responsible for any damage of the Equipment/ material during transportation to site, storage and until satisfactory handling over the works. The Contractor shall replace any damaged equipment/ materials at his own cost.

SP-12 NAMEPLATES

The Contractor shall provide and attach to each major piece of equipment, a metal name and rating plate to be approved by the Engineer, giving the name and address of the manufacturer, the date and rating data. All ratings shall be in the British system Large ettering on any of the parts will not be permitted. All ratings shall be in the unit system adopted for the project, unless otherwise authorized by the Engineer.

SP-13 DIRECTED AND REQUIRED ETC.

Unless otherwise stated, wherever in the Specifications or upon the Drawings the words, "directed", "required", "permitted", "ordered", "designated", "prescribed" or words of like import are used, it shall be understood that the direction. requirement, permission, order. designation, or prescription of the Engineer is intended, and similarly the words "approved", "accepted", "satisfactory". or words of like import shall mean approved by, or acceptable or satisfactory to the Engineer unless otherwise indicated.

SP-14 SEQUENCE OF ERECTION

The sequence of erection of the Equipment shall conform to the requirements of the civil construction and of the Erection Instructions. Such information will be furnished to the Contractor by the Engineer upon request.

SP-15 FABRICATION, ERECTION, TESTING AND MAINTENANCE TOOLS PLANT & INSTRUMENTS

SP-15.1 The Contractor shall furnish special plant and tools for the complete and proper fabrication, erection and maintenance tools, plant & instruments of the HVAC Equipment. Tools shall include the type of tools not normally available in the market as standard tools and is generally manufactured especially for use with the HVAC Equipment. All lifting devices shall be accurately machined to fit the parts to be handled The wrenches and tools for maintenance, insofar as practicable, shall be mounted on a suitable hardwood or steel board arranged for wall mounting and provided with means for ready identification. The Contractor shall also provide refrigerant charging Plant if and when required. No separate payment shall be made for providing Plant and Tools and the Contractor may withdraw the Plant and Tools after its use.

SP-15.2 The Contractor shall furnish and install sign board showing information about the project, name of Employer, Engineer and the Contractor, as directed by the Engineer.

SP-16 MATERIALS AND EQUIPMENT TO BE IMPORTED

Imported materials and equipment. whether procured from local market or imported especially for this project by the Contractor shall include, but not limited to the items listed hereunder. The Engineer may however issue a Variation later for use of locally fabricated item, if he is satisfied that specified requirements will be met.

a. Roof Top Package Air Conditioners
b. G.I. Sheet
c. Flexible Connectors.
d. Vibration Isolators for Fans when specified as Imported.
e. Duct Insulation and Insulation Tape, Sealing Tape. Duct Sealer and Adhesive.
f. Electrical circuit breakers. contractors, relays, indications and measuring instrument. for electrical panel.

SP-17 ERECTION SUPERVISORS AND OPERATING STAFF

SP-17.1 General

The Contractor shall provide the services of Erection Supervisors and Operating Staff in accordance with the requirements of the Conditions of Contract, of sub-clause SP-02.2 Services by the Contractor, and as specified herein

SP-17.2 Work by Erection Supervisor

a) The Erection Supervisor shall direct the activities of Contractor's employees as they concern the installation, commissioning balancing and testing of the Equipment furnished under this Contract. The Contractor through his Erection Supervisor shall cooperate with other Contractors to whatever extent is necessary to produce an installation satisfactory to the Engineer in accordance with the requirements of the time schedule, the Drawings and the Specifications.

b) Erection Supervisor shall be present from the Commencement of Work and remain on Site until the substantial completion.

c) Should a disagreement arise between other Contractors and the Erection Supervisor, the matter shall be submitted without delay to the Engineer for his decision. Upon such decision, the Erection Supervisor shall proceed with the work in accordance therewith, immediately.

d) Erection Supervisor shall be a three (03) year diploma holder from Government College of Technology in HVAC Technology having at least 5-6 years of experience in HVAC installation works of similar nature.

e) If the Contractor fails to fulfill his obligations under clause SP-02.2(a) and also fails to provide the Services of the Erection Supervisor having the minimum qualifications as stated in sub-clause (d) of this Clause then the Contractor would be obligated to pay to the Employer an amount of Rs.1500 per day for the number of days when the services of such Erection Supervisor are not provided. The Employer would be entitled to deduct the amount due from the Contractor in this regard from his running Bill/any payable sums.

f) Provision of (e) above shall not apply when the Erection Supervisor is on authorized legal leave (casual), sick leave and official holidays only. His absence up to a period of ten (10) days will also be allowed when the contractor intends to replace the Erection Supervisor with the consent of the Engineer.

SP-17.3 Operating Staff

The Contractor shall provide staff to operate, service and maintain the HVAC system continuously for building operation time during one (01) year Defect Liability Period (DLP). Operating supervisor shall have at least 5-6 years' experience of similar works. The Contractor shall also arrange to provide proper training to Employer's staff to operate the HVAC system to the entire satisfaction of the Employer. All costs incidental to providing operating staff including staff salaries shall be deemed to be included in relevant item of Schedule of Prices. No separate payment shall be made to the Contractor for fulfillment of his obligations under this clause.

SP-18 RIGHT TO OPERATE PLANT

The Employer reserves the right to operate any and all Equipment after it has been Commissioned and prior to substantial completion of whole Works. All repairs or alterations found to be necessary during such operation, and required of the Contractor, shall be made by the Contractor at such time as directed by the Engineer. The repairs or alterations shall be made in such a manner and at such a time as will cause the minimum interruption in the use of the Equipment by the Employer.

SP-19 ERECTION INSTRUCTIONS

Erection Instructions in form of published installation manual, as furnished by the manufacturer of Equipment.

These instructions shall include full and detailed instructions for the guidance of the Erection Supervisor as to all procedures and precautions to be observed in erecting, assembling and adjusting the Equipment and as to the use of the Erection Plant. It shall include or be accompanied by drawings, clearly showing erection marking and particularly any matchmaking and shall embody in particular a full statement as to erection tolerances to be observed.

These shall also include full instructions for the maintenance of the Equipment not only during the period of Contractor's liability but more particularly during its operating life. The directions shall be set out simply, clearly and systematically. In particular, this section shall include a full list of all routine checks and their timing, directions as to fault finding, detail of all routine attentions (such as greasing), in the form of check sheets for daily, weekly, monthly, quarterly, half-yearly, yearly and any other periodic checks recommended by the manufacturer. This section should also provide detailed and complete instructions for trouble shooting, maintenance and all necessary adjustments to the Equipment Technical leaflets and brochures in respect of all equipment supplied under this Contract including all relays, instruments, switches, controllers, regulators etc., should be supplied with the erection instruction. This should also include complete catalogue of spare parts with exploded views of the equipment and relevant part numbers to facilitate identification and ordering of spares throughout the operating life of the Equipment.

The Contractor shall submit 3 copies to the Engineer for approval.

SP-20 WATER, POWER AND GAS DURING ERECTION AND TESTING

Water and power supply for Erection and Preliminary Tests shall be the responsibility of the Contractor. Water, power and gas supply for Balancing & Commissioning, Performance Tests and Reliability Trial Tests and operation during Defects Liability Period will be provided by the Employer.

SP-21 SPARE PARTS

The Contractor shall furnish spare parts as per list given in the Section 2 of Technical Provisions. The Contractor shall also furnish recommended spare parts with the recommendation of manufacturer of equipment. The spare parts listed shall serve all Equipment furnished.

The Contractor shall also furnish recommended spare parts selected by the Employer at the applicable unit rates, from the lists provided by the Bidders. Payment for recommended spare parts will be made from the amount set out in Schedule of Prices against items "Recommended Spare Parts". The spare parts listed shall serve all Equipment furnished. These spare parts shall not be used during Defects Liability Period, or earlier.

The Contractor shall supply, at his own cost any spare parts required during the Defects Liability Period.

SP-22 DEFECTS LIABILITY PERIOD

The Contractor shall operate service and maintain complete HVAC System for a period of one (01) year after date of issuance of Taking over Certificate. The plant shall be operated in accordance with provisions of Clause SP-02.2(b). SP-17.3 and as specified herein, and shall include supply of operating staff, consumables, all necessary adjustments, greasing, oiling and cleaning and the furnishing of necessary tools, instrument supplies and parts to keep the system in perfect operation, except such parts made necessary by misuse or neglect not caused by the Contractor

The cost of operating the plant during operation & maintenance period shall be paid by the Employer to the Contractor under Schedule of prices item named "Operation & Maintenance during Defects Liability Period"

SP-23 APPROVAL FROM GOVERNMENT

The Contractor shall arrange and be responsible for all tests, test reports and approvals regarding electrical works under this contract, any other works under this Contract requiring tests/Government approvals. All the requirements to be completed for this purpose, whether specified or not shall be at the cost of the Contractor. The Contractor shall handover all test results and approval certificates to the Engineer within one week of obtaining such approval.

SP-24 PERFORMANCE GUARANTEE

The Contractor shall be required to furnish a Performance Guarantee in accordance with Conditions of Contract.

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SP-25 SITE FACILITIES

Except for the Site facilities specifically stated in Conditions of Contract and/or Special Provisions. no other site facility shall be provided by the Employer to the Contractor.

SP-26 SUFFICIENCY OF RATES AND CURRENCY FOR PAYMENT

All rates and amounts filled in the SOP by the Contractor for equipment/material whether locally procured or imported shall be deemed to include. but not limited to, the cost of items. custom duties. sales tax and surcharges. freight, marine insurance, local duties, sales tax and surcharges, clearance charges, inland transport and insurance, *octroi*, L/C opening charges, bank charges, etc. Payments to the Contractor shall be made in local currency.

SP-27 IMPORT LICENSE

The Contractor will arrange the import licenses if required for a l the imported Equipment, Plant, Tools and Machinery to be incorporated in permanent works. All the costs and charges for arranging import licenses will be paid by the Contractor. The Contractor shall be responsible to arrange foreign exchange for import of all equipment and materials.

SP-28 GUARANTEES AND WARRANTIES

SP-28.1 Performance Guarantee

The contractor shall guarantee the performance of the complete HVAC system. viz.-a viz. his workmanship for the work executed at site, and quality of material. as specified. He shall replace the material/workmansh p, whenever found not meeting the specified requirements, at his own cost.

SP-28.2 Manufacturer's Warranties

The contractor shall obtain manufacturer's standard warranties for all equipment extended for a period up to completion of Defects Liability Period at his own cost.

SP-29 PACKING OF EQUIPMENT AND MATERIALS

All equipment and material shall be adequately packed at the manufacturer's works to protect them against damage. scratching, corrosion. dust, rain and moisture during handling, transportation and storage. The packaging shall be rigid enough to withstand normal service incidental to shipping and handling. Wherever necessary, crates/boxes shall be provided with lifting hooks attached by means of vertical rods or plates to strong bottom supports to enable rigging.

The following information shall appear inside all packages:

a) Stock or identif cation number
b) Description of contents/packing list
c) Quantity of each item
d) Invoice number
e) Year of manufacture

SP-30 INSPECTIONS AND TESTS

SP-30.1 Inspection by Engineer at Site

The Engineer shall inspect the works in progress at site as and when considered necessary by the Engineer and the Contractor shall provide full access and assistance to the Engineer for carrying out inspection to verify the conformity of works to general lay-out of HVAC System as designed and as shown on Drawings and as specified. Such inspection if made shall not relieve the Contractor from any obligations under the Contract

SP-30.2 Tests

A) General

i) All Tests as specified shall be carried out unless otherwise specified. The Engineer shall witness the tests.

ii) The Contractor shall give the Engineer at least seven days notice in writing of the date on which any equipment will be ready for inspection and/or testing as provided in the Specifications and unless the Engineer shall attend within seven days of the date which the Contractor has stated in his notice the Contractor may proceed with the tests in the Engineers absence and shall forthwith forward to the Engineer five duly certified copies of test readings, on the forms prescribed by the Engineer. The Engineer shall give twenty-four hours' notice in writing of his intention to attend any test.

iii) The Contractor shall provide all labor, materials, electricity, fuel, stores, apparatus machines and instruments as may be necessary to carry out tests, unless otherwise specified.

iv) The cost of all tests carried out by the contractor under this Clause shall be borne by the Contractor.

v) As and when any equipment or HVAC System or part thereof shall have passed any inspection/test the Engineer shall furnish to the Contractor a certificate in writing to that effect.

vi) The Engineer may reject any part or parts of Equipment, and HVAC System which he shall after inspection/ testing decide is not in accordance with the Specifications and Drawings and he shall give to the Contractor within fourteen (14) days of such inspection/ testing notice in writing of such rejection stating therein the grounds upon which his decision is based

vii) The test results shall be filled out by the Contractor in the forms proposed by the Contractor and approved by the Engineer. Six copies of filled out forms shall be submitted to the Engineer for review and approval.

B) Preliminary Inspection & Tests

Preliminary Inspection/Tests as specified in Technical Specifications shall be carried out on all or any major HVAC equipment and such other equipment as the Engineer may require, on completion of

installation of that equipment or at such time which the Engineer may require.

C) Balancing & Commissioning

Balancing and Commissioning shall be carried out on all or any major equipment. as Specified in Technical Specifications, when such is ready for operation. The Engineer must witness the Balancing and Commissioning procedures and Contractor shall proceed further after Engineer's written satisfactory approval.

D) Performance Tests

These tests as spec fied in Technical Provisions shall be carried out on each equipment of HVAC system after successful completion of Commissioning of that equipment, during appropriate season. on the dates proposed by the Contractor and approved by the Engineer. The Engineer keeping in view the weather conditions may fix the test date on any equipment of HVAC system within 6 months of Completion of Commissioning of that equipment.

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TECHNICAL SPECIFICATIONS
PART – B –TECHNICAL PROVISIONS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

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SPECIFICATIONS

TECHNICAL PROVISIONS

SECTION 1 - GENERAL REQUIREMENTS

1-01 MATERIALS

All materials shall be of the highest grade, free from defects and imperfections, of recent manufacture and unused, and of the classification and grades designated, conforming to the requirements of the latest issue of the appropriate specifications cited herein. All materials, supplies, and articles forming part of major equipment and not fabricated by the manufacturer of the equipment shall be the products of the recognized reputable manufacturers.

1-02 WORKMANSHIP

Workmanship and general finish shall be of the highest grade, in accordance with the requirements specified herein, and the best modern standard practice.

1-03 EQUIPMENT

a) For ratings and characteristics of manufactured equipment. Equipment Schedule as appended to Technical Provisions shall be followed.

b) All equipment shall be manufactured by companies, which have had at least ten years previous experience in the design and manufacture of equipment of comparable type, capacity and operating conditions. Unless otherwise approved by the Engineer.

c) Where the requirement of this Clause make any equipment proprietary or non-obtainable, the Engineer reserves the right to waive any portion or portions of it as required to obtain the intent of the technical specifications.

d) When a manufacturer's product is specified by name, or equivalent, it shall be in the sole judgment of the Engineer as to acceptability of any product, which is offered as equal to that specified.

e) Where two or more units of the same class of equipment are furnished, product of the same manufacturers shall be used· component parts of entire system need not be product of same manufacturer.

1-04 CHASSES AND OPENINGS

The Contractor shall provide shop drawings, templates or details for chases and openings to be left in concrete walls, concrete partitions, and floor or roof slabs to accommodate work under HVAC scope of works.

1-05 PROTECTION

The Contractor shall keep pipe, duct and other openings closed to prevent entry of foreign matter. All fixtures, equipment and apparatus shall be covered and protected against dirt, water, chemical or mechanical damage, before and during the construction period All fixtures, apparatus, or equipment damaged including damaged shop coats of paint shall be restored to original conditions prior to Commissioning and also again prior to Final Acceptance. All bright finished shafts bearing housings and similar items shall be protected

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until in service: no rust will be permitted

1-06 CUTTING, PATCHING AND REPAIRING

Required for proper installation and completion of HVAC works, including masonry work, concrete work, and carpentry work, painting and re-painting shall be performed by skilled craftsmen in respective trades, at expense of the Contractor. Construction shall be cut only after obtaining written permission from the Engineer.

1-07 LINES, LEVELS AND SPACES

The Contractor shall check dimensions at the building site and establish lines and levels for work specified in Specifications. The Contractor shall check with work of other trades to ensure proper clearance of piping, ductwork, conduit and other items. Any deviations observed between drawings and actual construction shall be brought to the notice of the Engineer. The erection supervisor shall regularly inspect, during progress of civil works, the areas allocated for installation of HVAC equipment and any conflict observed shall immediately be reported to the Engineer.

1-08 MACHINERY GUARDS

All moving parts of machinery are to be protected by strong guards to adequately protect all personnel working on or in the vicinity of equipment.

Wherever possible, moving parts should be protected by guards supplied by the equipment manufacturer. All guards must be strongly attached to equipment and should be designed for easy removal for access, servicing, adjustment and maintenance.

1-09 TOOLS

The Contractor shall supply in a toolbox, full sets of tools suitable for maintenance of all components of the plant furnished by him including the electrical equipment, for use by the Employer after completion of Defects Liability Period. List of Tools shall be subject to approval by the Engineer.

1-10 OIL AND GREASES

The oils and greases shall be supplied in sealed containers. These shall be of suitable quality sufficient for the initial charge plus hundred percent (100%) extra. The quantity, grade of oil and greases and their manufacturer shall be approved by the Engineer the extra oils and greases shall be reserved for use by the Employer after completion of Defects Liability Period.

1-11 SPARE PARTS

The spare parts for HVAC System shall be duplicates of the original parts furnished and interchangeable therewith.

1-12 ACOUSTIC TREATMENT

Sound measurements will be made at approximately five (5) feet above floor level in the occupied area served and not more than five (5) feet from the grills, diffusers or other air devices being tested. Instruments for sound measurement shall be provided by the Contractor.

Provision is to be made to minimize noise and vibration. However, different manufacturers equipment have varying sound and vibration characteristics and it is, therefore, the responsibility of the Contractor to ensure that the

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requirements in these specifications are fully met by the equipment he is offering. If the Contractor has any requirements for additional vibration or sound isolation, these must be incorporated into the price quoted.

All equipment installed should not be audible inside the occupied areas and the Contractor must ensure that all equipment he is offering is quiet and have satisfactory sound levels. Where silencers are required, these must be incorporated into the price quoted.

1-13 ACCESS PANELS

The Contractor shall mark locations of, and give sizes of, access panels required in false ceiling and wall paneling for adjustment and maintenance of HVAC Equipment, such as Dampers, Fire Dampers, valves, ceiling-hung equipment, etc. This information shall be provided to the Engineer before commencement of false ceiling work by the concerned persons

1-14 SEALING OF OPENINGS

The contractor shall seal all openings in external walls and roof where HVAC ducts/pipes penetrate in external membrane. The sealing shall be air tight to prevent penetration of outside air and water into building. The method and materials for sealing shall be subject to Engineer's approval.

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SECTION 2 – EQUIPMENT

2-01 GENERAL

All equipment shall be of such overall dimensions, operating weights, service area requirements and configuration that it can be located where shown on the plans without any adverse effect on its performance and clearance requirements. Any change in other trades work, anticipated by offering alternate equipment, shall be estimated by the Contractor and its cost shall be included in the quoted price for HVAC Works.

Provision for clearance and service spaces shall be made around all mechanical equipment as recommended by equipment manufacturers.

All equipment supplied under this section shall be brand-new, factory manufactured and factory assembled (unless otherwise specified) and complete in all respects The type, characteristics, capacity ratings, component sections of all equipment shall be as Scheduled.

All equipment furnished by the Contractor shall include vibration isolation mounting pads, anchor bolts, frames or any other mounting or supporting accessories.

All power driven equipment shall include drives, motors and adjustable motor foundation bases and accessories including machinery guards where applicable

All equipment shall be complete with all accessories necessary to serve the intended purpose, whether specified or not.

All equipment installed on roof or intermediate floors shall include suitable vibration isolators to prevent any vibration traveling to building structure.

2-02 EQUIPMENT

2-02.1 AIR COOLED SELF CONTAINED ROOF TOP PACKAGED AIR CONDITIONERS (HEAT PUMP-R410A REFRIGERANT)

Provide factory assembled, air-cooled type packaged DX rooftop units complete with refrigeration system, air handling section, heating section, filtration, controls, and accessories as specified herein and as shown on drawings.

Units shall be delivered as single piece factory tested assemblies, pre-charged with refrigerant, pre-wired, fully piped internally, and ready for site power and control connections. The unit shall be capabale to operate at ambient temperature of 115°F (46°C).

2-02.2 Related Standards

Units shall comply with latest editions of:

- AHRI Certification Program for Packaged Units
- ASHRAE 90.1 – Energy Standard for Buildings
- ASHRAE 15 & 34 – Refrigeration Safety & Refrigerant Classification
- ASHRAE 52.2 – Air F lter Testing
- ISO 16890 – Air Filtration C assification
- IEC Electrical Standards
- Local Energy & Safety Codes

2-02.3 Quality Assurance

- Units shall be factory performance tested.
- Refrigerant circuit shall be helium leak tested.
- Coils shall be pressure tested.
- Unit shall undergo complete functional testing prior to dispatch

2-02.4 General Construction

Units shall be.

Air-cooled packaged type
Double skin construction
50mm injected PUF insulation
Galvanized steel panels with powder coating (minimum 80 micron)
Hinged and lockable access panels with neoprene gaskets

2-02.5 Refrigeration System

i) Compressors

- Scroll or Digital Scroll type
- Internal thermal overload protection
- Crankcase heater
- Soft start feature
- Electronic oil management system
- Phase failure, phase reversal & voltage protection
- High and low pressure transducers
- Anti-short cycle timer
- Refrigerant shall be RR410

ii) Coils

- Evaporator and condenser coils shall be:
- Copper tube, aluminum fin construction
- Hydrophilic / epoxy coated fins
- Mechanically expanded
- Pressure tested at minimum 650 psig
- Sloped stainless steel SS304 drain pan, insulated

2-02.6 Fans

i) Supply Air Fans

- Centrifugal type, forward curve or backward inclined aerofoil blades (belt Driven)
- Variable speed controlled
- IE3 efficiency motor
- Statically and dynamically balanced
- Vibration isolated

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ii) Condenser Fans

- EC axial fans
- Direct drive
- Variable speed head pressure control
- Low noise aerodynamic blades
- Safety guards

2-02.7 Filtration

- Minimum 2" pleated synthetic media filters
- Filters shall have at least 35% efficiency on 3-10 microns range
- Tested as per ASHRAE 52.2 & ISO 16890
- Differential pressure sensor with dirty filter alarm

2-02.8 Heating Section

Primary heating shall be via reverse cycle heat pump operation.

In case heat pump unit is not available:

- SCR controlled electric duct heater
- Multi-stage or fully modulating
- Stainless steel finned tubu ar elements
- Airflow proving switch
- Auto & manual reset thermal cut-out
- Balanced 3-phase load
- Face velocity minimum 500 FPM

2-02.9 Humidifier

- Electrode type steam humidifier
- Stainless steel cylinder
- Automatic blowdown
- Conductivity based control
- Solenoid fill valve
- Cleanable strainer
- Automatic drain cycle

2-02.10 Outdoor Air

If indicated:

- Motorized fresh air damper
- Mixing box assembly
- Opposed blade dampers

2-02.11 Controls

Unit shall include advanced microprocessor controller with:

- Color touchscreen HMI
- PID temperature control
- Cooling / Heating auto changeover
- Adjustable setpoints

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- Compressor short cycle protection
- Scheduling capability
- Energy monitoring
- Fault diagnostics (minimum 100 fault memory)
- Supply air temperature reset
- Anti-freeze protection
- Fire alarm shutdown interlock
- Filter status monitoring
- Fan Speed Control

2-02.12 Essential Spares for Roof Top Packaged Air Conditioning Units

S #	Spare Parts	Qty	Unit
1.	Refrigerant	1	Full charge of Refrigerant for One (1), Machines
2.	Relay	1	Each Type
3.	Time Delay Mechanism	1	Each Type
4.	Contractor	1	Each Type
5.	Expansion Valve	1	Each Type
6.	Filter Dryer	1	Each Type
7.	Crank Case Heater	1	Each Type
8.	Low Pressure Cut Off	1	Each Type
9.	Hi Pressure Cut Off	1	Each Type
10.	Gasket	1	Each Type
11.	Air Filters	1 Set	Each Type

2-03 FANS

2-03.1 General

These specifications are for all fans other than fitted inside Roof Top Package Air Conditioning Units. The characteristics and capacity of all fans be as schedule.

All fans shall be rated as per AMCA 210 or ASHRAE standard 51 or equivalent. Wheels shall be heavily rigidly constructed and accurately balanced both statically and dynamically, and be free from objectionable vibration or noises. Actual brake horsepower of fan and drive shall not exceed nameplate rating of motor driving fan. Motor shall be included. Motors shall comply with Clause 6-04 of the Technical Provisions until as specified elsewhere.

2-05.2 Propeller Fans

Propeller fans shall be direct driven type complete with motor, angle iron frame, back draft dampers and mounting accessories. Blades shall be of steel and factory adjusted for pitch. Blades of back draft damper shall have a link rod and the design shall be such that damper remains in full open position without rattling when the fan is operating.

In case no false ceiling is available at site, plastic body fans are provided

2-05.3 Tube Axial Fans

These shall be axial flow, duct mounted, circular in shape of characteristics and capacities as scheduled. Fans shall be direct or belt driven as scheduled. Fan motors above 1/2 HP shall be 3-phase induction type and 1/2 HP or smaller shall be single phase split-capacitor. Motors for direct drive fans shall be mounted within fan casing and impeller attached to the motor shaft end. The fan casing shall have flanges with holes for connection to duct work. Fans shall be complete with mounting frames, bolts and accessories, as required.

2-05.4 Centrifugal Fans

These shall be forward curve or back-wardly curved air-foil fan as scheduled, complete with housing, motors, drive equipment, supports, vibration isolators and inertia bases of slide rails as required and as scheduled. Shaft shall be cold drawn, hot rolled or forged steel ground to close tolerances for perfect bearing fit and shall be provided with keys and keyways for impeller hubs and fan pulleys.

Housing shall be heavy gauge steel suitably braced to provide stiffness to housing and rigid supports for bearings Fan blades shall be continuously welded to back plate.

All bearing shall be cast pillow block, ball or roller bearings, self-aligning type. Bearings shall be selected for 60,000 hours minimum life based on continuous operation at operating fan RPM.

Fan outlet shall be equipped with removable angles and bolts for attaching canvas or other flexible connectiors Fan housing shall be provided with access panels and drain plugs.

Centrifugal fans shall be designed to have weatherproof construction and should be suitable for exposed installation.

2-05.5 In Line Centrifugal Fans

These shall be centrifugal in line type, of characteristics and capacities as Scheduled. Fans shall be belt driven as Scheduled. Fan motors above 1/2 HP shall be 3-phase induction type and 1/2 HP or smaller shall be single phase split capacitor. Motors for direct drive fans shall be mounted within fan casing and centrifugal impeller attached to the motor shaft end. Motors for belt driven fans shall be mounted on fan casing. Motor base shall be adjustable type with pivot at one end for easy and accurate belt adjustment. The fan inlet shall have an aerodynamic design to ensure turbulence free airflow at discharge. Centrifugal impeller blades shall be backward inclined or aerofoil type. Fan casing and impeller shall be made of heavy gauge steel. Impeller shall be dynamically balanced and shall have cast iron hub. The far bearings shall be self-aligning ball bearing type. Fan shall have an inner cylinder and belt duct to protect bearings and drive from the air system. Fan motor and drive shall have weatherproof cover. A bolted access shall be provided in the fan casing for cleaning and inspection. The fan casing shall have flanges with holes for connection to ductwork. Fans shall be complete with mounting frames, brackets for ceiling suspension, bolts and accessories, including belt guard and spring vibration isolators as required.

SECTION 3 - FOUNDATIONS AND SUPPORTS

3-01 GENERAL

All equipment. piping and ductwork where used shall be mounted on or suspended from foundations and supports, all as specified. as shown and as required. All concrete foundations where required. including thickened structural slab. housekeeping pads and concrete for inertia pads will be provided by the Employer or other Contractor appointed by the Employer.

Shop drawings, other information and templates for all concrete foundations where used. shall be provided by Contractor as per recommendations of the manufacturer of the equipment Necessary integral steel framings, concrete reinforcing rods welded to frame, required anchor bolts. spring mountings, and neoprene pads, shall be provided by the Contractor. The Contractor shall cooperate with those doing the flooring work to ensure proper installation of all these elements.

Foundations and vibration isolation mountings for various equipment and ductwork where used shall be as per requirements specified. Vibration isolators where used shall be of approved make.

Springs used for vibration isolation shall be single. open coil type and laterally stable. having a ratio of loaded height to mean coil diameter not greater than 1.25. To preclude possibility of spring coils "shortening" when motor starts or slows down, the springs shall be selected so that there remains when the spring is design loaded, a reserve deflection of between 25 and 30% of maximum deflection of free spring. When fully compressed, maximum stress in steel should not exceed yield stress of spring material. Springs shall be unhoused and held well clear of any part of suspended mass. Isolated system if supported on a flat slab type base, shall be held clear of supporting structure or pad by the minimum distance thought necessary for efficient housekeeping or 1 inch. Lower end of each spring shall be supported on a rigid. square steel base plate sufficiently thick to withstand a bearing pressure of 427 kPa. This plate should be complete with 3 thickness of type W neoprene waffle pad between under inside of plate and supporting structure. A 16 gauge steel shim plate bonded to pad surfaces shall separate adjacent thicknesses. Spring base plate shall also be bounded to top layer of pad. Pad area should be chosen to suit hardness of neoprene. For 40 durometer neoprene. bearing pressure on supporting structure shall be 276-352 kPa when spring is design loaded. Waffle pads may have to be cut away in the middle of pads since pads shall have same overall dimensions as spring baseplate.

All ceiling hung equipment having fans and motor as integral part of equipment shall have adequate vibration isolators.

Flexible duct connections, as specified elsewhere, shall be fitted wherever ducts cross building expansion joints, at suction and discharge end of each PAC and fan wherever ducts are connected to such unit, and/or wherever shown on the drawings.

Details of all vibration isolators, flexible connections and bases shall be submitted to the Engineer for approval.

3-02 MOUNTING OF EQUIPMENT

3-02.1 Floor or Roof Mounted Equipment

All floor or roof mounted equipment shall be generally placed on at least 4 inch concrete house keeping pads, unless otherwise indicated. The pads shall be constructed on 1 inch thick cork-sheet Protective curbs shall be provided on all sides of the pad to protect the cork sheet edges. Special attention shall be given to the equipment at roof and intermediate floors and heavy equipment like PACs shall be mounted on spring isolators / inertia pads The spring isolators shall preferably be supplied by equipment manufacturer and shall be from manufacturers specializing in manufacturing of vibration isolators. Manufacturer's recommendations for prevention of vibration and noise travel to the structure shall be adopted. The foundation details shall be subject to the approval of the Engineer.

3-02.2 Wall Mounted Equipment

All equipment installed through wall shall have 20 gauge galvanized sheet metal which shall remain in place permanently. Sleeves shall be packed with non combustible glass fibre insulation minimum of 1.5 lb/cu.ft density and sealed with sealant. Equipment installed through walls shall have supporting wall brackets.

3-02.3 Air Inlets/Outlets

All wall grilles/EA-OA louvers shall be fixed to wooden frames and not to the ceiling material/wall masonry. Metallic frames may be used with metallic frame false ceilings. Wooden wall frames shall be grouted and finished by Contractor.

3-02.4 Ceiling-Hung Equipment

All ceiling-hung equipment shall be hung from ceiling (concrete slab) and shall not rest on false ceiling.

3-02.5 Floor Mounted Equipment

All floor-mounted equipment shall be resting directly on the raised floor pad (or supported from wall when approved by the Engineer).

3-03 VIBRATION ISOLATION

Where fans and motors are integral parts of factory assembled PACs and the fans and motors are not spring isolated from the PACs, the entire unit shall be mounted on vibration isolators.

Inertia pads where indicated shall be reinforced cement concrete pad. at least 4 inch thick with 4 inch steel channel all around to protect concrete edges. Reinforcing rods shall be welded to channel frame.

Floor mounted Fans with belt drives shall be mounted on continuous rails with sliding base for motor adjustment and fan-rails shall be mounted on vibration isolators as specified above. When shown on Drawings, continuous rails shall be mounted on Inertia pads and pads shall be mounted on vibration isolators.

SECTION 4 - DUCTING AND SHEET METAL WORK

4-01 GENERAL

4-01.1 Ducting Material

All duct work shall be of galvanized steel sheet unless otherwise indicated on Drawings. Galvanized steel shall be of lock forming quality (LFQ) and shall have a galvanized coating of 8 oz total for both sides of one square meter of a sheet. The GI sheet shall conform to ASTM A-525 and ASTM-90.

Galvanized steel sheet shall be Cut Lengths coated by the Hot-Dip Method and manufactured per ISO Standard 3575-76 zinc coating designation Z-275, and base metal quality 02.

4-01.2 Structural Steel

Structural Steel shall be M.S. members rolled from Pakistan Steel billets or equivalent conforming to ASTM designation A-36 standard specifications for structural steel.

4-01.3 Canvas Cloth

Canvas Cloth shall have specified weight with flame retardant quality.

4-01.4 Painting

All steel work in connection with supports for ductwork etc. exposed to the elements is to be painted with two coats of an approved rust preventive paint.

All exposed metal surface of hangers, brackets, etc. must be painted with two under-coats and two finishing coats of enamel paint of approved colour. G.I. sheet is not to be painted. However, all uninsulated pipe work and valves are to be painted as stated above.

Identification bands shall be painted on uninsulated ducting, or on insulation at frequent intervals. Lettering shall be agreed with the Engineer.

All duct hangers in concealed locations shall be given one coat of black asphalt paint before being concealed.

4-02 DUCT CONSTRUCTION

All sheet metal duct work shall be of a standard construction and erected in a first class workmanlike manner. The duct work shall be constructed as per SMACNA Low Velocity Duct Construction Standards.

Where specified, duct work shall be provided with interior insulation. Ducts shall be straight and smooth on the side, with joints neatly finished. Where ducts are lined with interior insulation, the dimensions required shall be for the net free area after insulation is applied. Ducts shall be anchored securely to the structure in an approved manner and shall be installed so as to be completely free from vibration under all conditions of operation.

Sheet metal ducts shall be properly braced and reinforced with steel angles, or other structural members approved by the Engineer Unless otherwise required. the internal ends of all slip joints shall be installed in the direction of flow.

Finished work shall show no flaking or peeling within 1/4" of a cut edge The construction and gauge of material, size and spacing of stiffeners for duct

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work shall be as follows:

Larger Dim. of Duct (in.)	Gauge (US)	Traverse Joint Type/Size (Inch)	Interm Bracing, Angle Size (Inch)	Max. Spacing between Traverse Joint &/or Interm Reinforcement
Thru 12	26	Drive slip/-	-	-
13 thru 18	24	Drive slip/-	-	
19 thru 30	24	Pocket lock/1	1x1x1/8	5
31 thru 42	22	Pocket lock/1	1x1x1/8	5
43 thru 54	22	Pocket lock/1-1/2	1-1/2x1-1/2x1/8	5
55 thru 60	20	Pocket lock/1-1/2	1-1/2x1-1/2x1/8	5
61 thru 84	20	Angled reinforced standing seam	1-1/2x1-1/2x1/8	5
85 thru 96	18	Angled reinforced standing seam	1-1/2x1-1/2x1/4	2.5
Over 96	18	Angled reinforced standing seam	1-1/2x1-1/2x1/4	2.5

Other types of Traverse joints allowed as per ASHRAE/ SMACNA Standards shall be acceptable, subject to Approval of Engineer, in places where pocket lock is not possible due to tight space.

The Round ducts and fittings shall have Lock Type Longitudinal seam and fitting joints.

The construction and reinforcement for round duct type shall be as follows:

Duct Diameter (inch)	Gauge (US)	Girth Reinforcements	Girth Joints
3 thru 8	24	None	2" Slip
9 thru 36	22	None	4" Slip
38 thru 50	20	None	4" Slip or Draw Band
52 thru 60	18	1-1/4"x1-1/4"x1/8" at 72" o.c.	1-1/4"x1-1/4"x1/8" Flanged Joint or Draw Brand
62 and over	16	1-1/2"x1-1/2"x1/8" at 48" o.c.	1-1/2"x1-1/2"x1/8" Flanged Joint or Draw Brand

All angles for bracing shall be painted with one coat of approved rust-inhibitive paint before fixing to duct.

All duct work in the finished areas shall be run parallel to the beams wherever possible. All outlet opening and open ends shall be kept closed with sheet metal caps during construction. Rectangular duct shall be constructed by breaking the corners and grooving the longitudinal seams. Elbows and

transformation sections may be formed with Pittsburgh corner seams but complicated fittings shall be constructed with double seams. Angle bracing shall be of steel and shall be carried out on all four sides of the ducts. All bracing is to be in accordance with the current addition of the ASHRAE Hand Book/ SMACNA Standards.

4-03 ELBOWS

Ducts shall be built with curves and bends, where required, to affect an easy flow of air. Curved elbows shall have a centre line radius at least equal to 150% of the width of the duct unless otherwise indicated. All duct curves having an inside radius smaller than the width of the curve shall be equipped with approved single thickness vanes

Vertical ducts shall have full size bends where horizontal branches are taken off unless otherwise indicated, and/or approved.

Where square elbows are used in changing directions, approved and aerodynamically correct vanes as per latest SMACNA Duct Construction Standards shall be used.

These turning vanes must be free from vibration when the system is in operation.

4-04 HANGERS

Hangers and supports shall be fastened to the structure in a manner approved by the Engineer All fastening shall be such as to ensure permanent stability and to be capable of supporting at least three times the applied load.

Galvanized sheet metal ducts less than 20" in width (larger dimension) may be suspended by means of galvanized iron straps extended along the bottom of the duct to form a trapeze, only if hanger length above the duct is not more than 12".

Hangers and support system including accessories to be installed outside of the building shall be minimum made of SS316 or equivalent material.

All other ducts shall be suspended by means of iron bars securely fastened to the angle iron bracing or angle iron placed under the duct. Bars shall be fastened to bracing only on un-insulated ducts

Bars shall be welded to angles at ceiling, attached therein by anchor screws and heavy iron washers. Where horizontal ducting is fixed to walls, columns, supported from floor slabs, etc. angle iron frames are to be fabricated and fitted to support rectangular ductwork and associated equipment.

Vertical ducts are to be supported by steel angles bolted to at least two sides of the duct and on the complete circumference of the ducts where the larger duct dimension is greater than 24 inch.

Angle iron extensions shall be either grouted or bolted to the structure.

Hangers spacing and sizes shall be as follows.

Larger Duct Dim (Inch)	Strap Size (Inch)	Bar Dia (Inch)	Bottom Angle Size (Inch)	Maximum Spacing (Feet)
Thru 12	1" x 22 ga	3/8	1x1x1/8	8

14 thru 18	1" x 22 ga	3/8	1-1/4x1-1/4x1/8	8
19 thru 30	1" x 18 ga.	3/8	1-1/2x1-1/2x1/8	8
31 thru 42	1" x 18 ga	3/8	1-1/2x1-1/2x1/8	8
43 thru 54	1" x 16 ga	3/8	1-1/2x1-1/2x1/8	7
54 over	1" x 16 ga	1/2	2x2x1/4	6

Hanger rods shall be cross-braced whenever the length of rod above duct work is more than 3 ft. to prevent swing of ducts.

All structural steel including hanger rods and angle iron shall be painted with one coat of approved rust- nhib tive paint before installing.

Hangers spacing and sizes shall be as follows for Round Duct:

Larger Duct Diameter (Inch)	Strap Size (Inch)	Bar Diameter (Inch)	Wire Dia.	Maximum Spacing (Feet)
Thru 10	1" x 22 Gauge	1/4	One 12 Gauge	12
11 thru 18	1" x 22 Gauge	1/4	Two 12 Gauge	12
19 thru 24	1" x 22 Gauge	1/4	Two 10 Gauge	12
25 thru 36	1" x 20 Gauge	3/8	Two 8 Gauge	12
37 thru 50	Two 1" x 20 Gauge	Two 3/8	-	12
51 thru 60	Two 1" x 18 Gauge	Two 3/8	-	12
61 thru 84	Two 1 x 16 Gauge	Two 3/8	-	12

4-05 QUADRANTS FOR VOLUME DAMPERS

All dampers other than dampers behind registers and diffusers shall be fitted with substantial locking quadrants. mounted outside the duct in an accessible position. On insulated ducts the quadrants shall be fastened to bearing plates flush with the outside finish of the insulation.

4-06 DAMPERS

4-06.1 Volume Dampers (V.D)

A substantially constructed manual volume damper of the butterfly or multiple blade type as per latest SMACNA Duct Construction Standards shall be fitted where shown on the Drawings and at all branch entries or exits with main ducts for balancing purposes. Dampers shall have galvanized or painted steel interlocking blades of 8" maximum blade width. Blades shall be fabricated from 16 gauge steel with seamed edges and a maximum length of 4 ft. It should be noted that these dampers, shall be separate and independent from the dampers. hereinafter specified. Volume Dampers are not required where splitters Dampers, as specified hereinafter, are installed

4-06.2 Splitter Dampers (S.D)

At each point of division in a supply trunk duct where a branch is taken off a trunk duct, an adjustable spl tter or deflecting damper. one gauge heavier than the duct with operating rod and locking quadrant as above, shall be installed. These deflecting dampers shall be permanently set and locked in position after completion of the installation and adjustment with fans running.

Operating rods are to be full blade length extending through the duct to externally mounted bearing plates. Construction shall be as per latest SMACNA Duct Construction Standards.

4-06.3 Fire Dampers (F.D)

Fire dampers are to installed as shown on the drawings. Frame shall be 4"x1"x1/8" galvanized steel channel with 16 gauge thick blades. Blades shall have an overlap of 1' and shall be fixed on self-lubricating bronze type bearings.

Dampers shall be complete with linkage rod and fusible link rated at 160 deg F. Damper construction shall meet NFPA 90-A requirements, and shall have the "hour" fire-rating not less than the fire rating of the plane where installed. Fire dampers shall be air tight when in close position.

4-07 FLEXIBLE DUCT CONNECTIONS

Flame proof flexible connections shall be furnished and installed on all suction and discharge connections of fans and air conditioning units for prevention of transmission of vibration through the ducts to occupied spaces

Flexible connections also be provided wherever ducts cross building expansion joints.

Flexible connections shall be factory fabricated of imported origin, made from chemically impregnated canvas or other material approved by the Engineer. Connections shall fit closely and are to be secured in an airtight fashion at connections to ductwork, fans and apparatus. The unclamped section of the flexible connection between apparatus and ductwork shall no: be less than 6" in length Flexible connections shall not be painted or insulated. Samples of the material shall be presented to the Engineer for approval before installation.

4-08 ACCESS DOORS AND PANELS

Wherever necessary, suitable access openings, doors and frames to permit inspection, operation and maintenance of all filters, controls, dampers,

bearings or other apparatus shall be provided in ducting. Doors shall be of double construction, of not lighter than 20 gauge metal sheet and shall have sponge rubber gaskets around their entire perimeter. On insulated duct work the space between the inner and outer door sheets shall be insulated as specified for the ductwork. All access doors in sheet metal shall have air tight seal, shall be hung on heavy flat hinges and shall be secured in the closed position by means of wing type nuts and screws or coin operated catches.

4-09 SLEEVES

Where ducts pass through walls, partitions or floors, wooden sleeves shall be provided by the Contractor and these sleeves shall remain in place permanently. Sleeves shall be packed with non-combustible glass- fibre insulation. minimum of 1.5 lbs/cu.ft. density and sealed with sealant.

4-10 TEST WELLS

The Contractor shall provide test wells for measurement of air velocity and static pressure for balancing purpose. These wells made up of a brass nipple with screwed caps are to be fixed into the duct or casing on the downstream sides of each fan, filter, PAC and branch volume damper in each branch supply duct, and on upstream side of branch volume damper in each branch return. The design of test well shall be subject to Engineer's approval.

4-11 FLEXIBLE ROUND INSULATED DUCT

This shall be round insulated duct, factory made with 1 1/2" thick fiberglass blanket wound round a coated helix wire coil and fiberglass inner mesh liner. Thermal conductance shall not be more than 0.27 btu/hr-sft-deg F at 75 °F and shall meet the fire safety requirement of UL 181 Class 1 air duct.

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SECTION 5 - INSULATION

5-01 GENERAL

5-01.1 The Contractor shall provide insulation for the services and equipment specified hereafter. Insulation shall be as per following Insulation Schedule.

5-01.2 Insulation material shall be complete with vapor barrier protection covering and jacketing (where specified), adhesives, insulation tape, duct sealer and/or sealing tape, fastening material, and jacketing for outdoor ducting and piping.

5-01.3 Identification bands shall be painted on insulation at frequent intervals. Lettering shall be agreed with the Engineer.

All exposed insulation is to be painted to approve colors with one undercoat and one finishing coat of ename paint. All steel work and other steel equipment specified to be insulated shall be thoroughly wire brushed to the satisfaction of the Engineer and painted with one coat black cold asphalt paint before insulation is applied.

5-02 INSULATION SCHEDULE

Sr. No.	Services	Thick-ness (Inch)	Insulation Type	Vapor Barrier	Protection
a)	Indoor supply/return duct				
i)	Concealed to vision outdoor-air duct passing through conditioned space	1	Glass fibre blanket	Reinforced aluminum foil	8-Oz canvas
ii)	Exposed to vision and outside	2	Glass fibre blanket	Reinforced aluminum foil	8-Oz canvas with water proof paint GI. sheet metal jacketing.
b)	Supply ducts. upto 10 feet from fan discharge and sheet metal air plenums	1	Acoustic liner applied inside with outside insulation as Item 5-02 (a)	Same as 5-02 (a)	

5-03 INSULATION MATERIALS

5-03.1 Duct Insulation

Insulation material for ducts and sheet metal air plenums shall be flexible glass fibre. 1 lbs/cu ft density and maximum conductivity of 0.27 Btu/hr.sq ft /inch at 75 deg F

5-03.2 Vapor Barrier for Duct Insulation

Vapor barrier when specifiec shall be factory applied flame retardant re-inforced aluminum foil. 0.02 mils thick.

5-03.3 Acoustic Liner Material

Acoustic liner shall be 1.5 lbs/cu.ft. density fibre-glass with neoprene scrim on inside surface and thermal conductivity value shall not exceeding 0.27 Btu/hr.sft Deg F/inch at 75 Deg F. Material shall conform to ASTM C1071, ASTM E84 with latest revisions.

5-03.4 Cooling Coil Condensate Pipe Insulation

Shall be 1/8" thick pipe insulat on vinyl aluminum 'foam' with aluminum foil self adhesive tape 3" wide

5-03.5 Insulation Protection Material and Accessories

5-03.5.1 Canvas

8 Oz per square yard as specified in Insulation Schedule.

5-03.5.2 Jacket

26 gauge (US) galvanized steel sheet or aluminum sheet.

5-03.5.3 Water Proof Paint

As approved by the Engineer

5-03.5.4 Wire Netting

1" hexagonal mesh. 20 gauge (US), galvanized.

5-03.5.5 Metal Lathe

Expanded metal lath with 1/2 inch diamond mesh.

5-03.5.6 Banding

1/2" x 1/48" galvanized steel or aluminum bands.

5-03.5.7 Insulation Tape

Insulation tape for joints shall be of aluminum foil type. 2 inch wide, equivalent to Scotch No.473.

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5-03.5.8 Adhesive

Adhesive for thermal insulation shall comply with ASTM Standard C 916 or equivalent. Adhesive for acoustic liner shall comply latest ASTM C916 or equivalent.

5-03.5.9 Duct Sealer

Sealer for duct joints shall be butyle rubber cauking, weather proof and water resistant, conforming to U.S. Federal Specification TT-S-001657 Type 1, as manufactured by Woodmont Products, INC, USA, or approved equal.

5-03.5.10 Duct Sealing Tape

Duct sealing tape shall be 3 inch wide self-adhesive vinyl cloth tape

5-04 INSULATION APPLICATION

5-04.1 General

All Thermal and accoustic insulating materials shall be installed as specified hereinafter.

Insulation shall be installed in a smooth, clean, workmanlike manner and joints shall be tight and finished smooth.

All surfaces to be insulated shall be dry and free from loose scale, dirt, oil or water when insulation is applied. Insulation shall be applied in such a manner that there will be no air circulation within the insulation or between the insulation and the surface to which it is applied.

Surface imperfections in the insulation such as clipped edges, small joints or cracks and small voids, or holes not over 1 inch square shall be filled with like insulating material

Where a vapour barrier is fixed on site it shall be fixed in such a manner as to obviate the possibility of moisture penetration. It shall be fixed where required by means of an approved type bituminous compound or approved equal for tightness

Insulation for all services shall only be applied until after testing and approval for tightness obtained from the Engineer, unless otherwise instructed in writing by the Engineer.

Insulation for all services shall be continued through sleeves. The insulation on exposed risers shall extend through the floor. Where insulated pipes are indicated on drawings as embedded in the thickness of walls, the insulation thickness may be reduced to 1 inch only.

Insulation is to be applied where indicated on the drawings or called for in these specifications.

5-04.2 Duct Insulation

Before applying insulation, either sealing tape or duct sealer shall be applied on all corners of traverse joints for air tightness.

The insulation shall be fixed on ducts with a suitable adhesive as specified. Adhesive shall be applied or atleast 75% surface area. In addition to the

fixing by adhesives, insulation on the underside of ducts exceeding 18 inch width must have mechanical fasteners of an approved pattern to prevent insulation sagging, or alternatively bands as specified above shall be used at intervals not exceeding 4 feet.

All joints on the insulation shall be sealed with 2 inch aluminum foil tape. The tape shall only be fixed to the vapour seal and not to the bare insulation and, therefore, joints in the insulation shall not occur longitudinally at corners of ducts. If it is unavoidable to have joints at longitudinal corners then the insulation must be cut back and the vapour seal folded over the bare edge of the insulation so that the tape adheres only to the vapour seal

5-04.3 Duct Insulation Protection

Indoor Exposed Duct: Insulation shall be covered over the vapour seal with a single layer of canvas with generous overlaps. The canvas shall be fixed with an approved adhesive.

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SECTION 6 - ELECTRICAL EQUIPMENT AND CONTROLS

6-01 SCOPE

a) The Contractor shall supply all panel boards, starting equipment, circuit breakers, busses, isolators, conducting cables, wiring, conduits, earth conductors, etc , for the entire HVAC system.

b) The earthing system shall consist of supply and installation of earth continuity conductor and running earth conductor all along the cable length All material such as earth continuity conductors, earth connecting points including the installation material and accessories shall be supplied and installed by the Contractor as specified.

c) For further details refer to Clause 6-02. "Distribution and Control Scheme"

6-02 DISTRIBUTION & CONTROL SCHEME

HVAC Contractor shall furnish and install main electrical panels (ACPs) at locations as specified and shown in drawings.

All HVAC equipment shall be served by ACPs.

All electrical works upstream and downstream of ACPs including ACPs shall also be in Contractor's Scope of Work.

6-03 GENERAL

All electrically operated equipment shall comply in all respects with the relevant B.S Standards including dimensional standards where these exist, except in so far as this Specification is at variance therewith.

All electrically operated equipment shall be so designed that it will continue to function without damage to itself or otherwise, if the voltage and/or frequency vary within the following tolerances.

Voltage plus or minus TEN percent.

Frequency plus or minus SIX percent.

The entire installation shall be in accordance with the requirements and to the entire approval of the Electricity Department of the Government and the approval of the Engineer.

All electrically operated equipment shall be suitable for continuous and prolonged operation in an ambient temperature 46°C. This temperature makes no allowance for local rises in air temperatures due to the operation of the equipment itself or of heat produced in or by adjacent equipment such as compressors, condensers or heaters The maximum operating temperature in standards specified shall be observed. Allowance for local high ambient temperature shall be made by reducing the permitted rises of temperature above ambient.

6-04 ELECTRICAL MOTORS

Unless otherwise indicated in these Specifications or in the Schedules, all motors which are not factory supplied by equipment manufacturer shall be totally enclosed fan cooled, of squirrel cage construction and of approved manufacturer.

Insulation on all motors shall be equal to Class F. All motors shall be

designed for continuous operation in the ambient temperature of 115 ^{0}F (46 ^{0}C).

All motors and accessories such as protection and control devices etc. shall comply in all respects with NEMA, current B.S Standards and I.E.E. Regulations. Single phase motors shall be capacitor-start induction run construction, unless otherwise indicated or specified

All motors shall be quiet operating guaranteed to fulfill specified requirements without producing any sound audible outside of plant rooms. All belt- driven motors shall have adjustable bases and set screws to maintain proper belt tension, with proper belt guards. Motors installed in the building should be super silent sleeve bearing type

The starting current of all motors above 10 hp. shall not exceed twice its rated full load current. For motors of rating 10 hp. and below the starting current shall not exceed 7 times its rated full load current or one hundred amps, per line, which ever is larger

6-05 MOTOR STARTERS AND ISOLATION

Each three phase motor shall be provided with a protective automatic starter to disconnect the supply in case of:

Failure of the supply

Serious drop in voltage

Flow of excess current

Failure of any phase (single phasing)

All starters shall be properly derated for operation in an ambient temperature of 115 ^{0}F (46 ^{0}C).

Manual starters may be used for motors 1/2 hp and less and shall include thermal overload protection and disconnect switch. These should only be used when no automatic switching is intended.

DOL starters shall be used only on motors of 10 HP and less.

All motors, control gear and ancillary equipment shall be protected by H.R.C. fuses or circuit breakers in addition to the protective starter mentioned above. Such fuses shall be part of the control gear. The isolator shall be integral with control gear.

Single phase motors shall be protected by circuit breakers with overload protection. Where several starters are mounted in a panel rack or bank, each starter shall have separate H.R.C. fuses or circuit breaker isolator. Manual starters for single phase motors should only be used when no automatic switching is intended.

Where starter operating circuits and ancillary apparatus are energized by an auxiliary supply other than the main power circuit to the motor the isolator shall incorporate auxiliary contacts to effectively isolate all poles of phases of such auxiliary supplies. Where necessary, two isolators shall be used.

All starters not in a central panel shall have a sheet metal enclosure with a removable lid and cover and necessary brackets for mounting on panel or wall. A clear schematic diagram of the starter circuit shall be fixed inside the cover of each starter.

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All magnetic starters subject to manual start shall have momentary contact start and stop buttons built into cover. All magnetic starters subject to electrical interlock or automatic control shall have hand-off automatic switches built into cover.

All coils, cores, insulation, contacts and trippers to starters and relays and all parts subject to wear and arcing shall be renewable

6-06 POWER AND CONTROL WIRING

All power wiring from the point of supply as described in previous sections, to each equipment shall be carried out by the HVAC contractor. All control wiring from each equipment to Apparatus Control Panels and fControl System shall also be in scope of HVAC Contractor.

All LT cables for power and control system shall be copper conductor, PVC insulated for single core and PVC insulated PVC sheathed for multicore. All cables shall be of specified voltage grade complying with BS 6346 and/or BS 6004. The PVC insulation shall comply with BS 6746. Conductor shall be stranded or solid high conductivity soft annealed copper complying with BS 6360.

All multicore and single core sheathed cables for circuits operating upto 250 volts shall be 300/500 volts grade. Al single core unsheathed cab es shall be of 450/750 volt grade.

All power cables for main feeders, main to sub-main feeders, power equipment, etc., shall be multi-core copper conductor, armored or unarmored and shall be of 600/1000-volt grade.

While cable selection for the specified project, the power factor is required to be considered as 0.8.

All cables shall have phase identification colours on insulation of each core. The colour code for three phase circuits shall be red, yellow and blue for phase conductors and black for neutral conductor Where insulated earth conductor is installed, it shall have green or green and yellow insulation.

Single-phase circuits shall have red for phase and black for neutral conductor

All DC circuits shall have red for positive and black for negative conductor.

6-07 CABLE TRAYS

The Contractor shall discuss the layout with the Engineer and co-ordinate at Site with other services for exact route, location and position of the cable trays for electrical lines It must be noted that the extent of works shown on the drawing does not indicate the exact position of cable trays. The Contractor shall ensure exact location and route of cable trays in coordination with other services drawings, as per site requirements and as directed by the Engineer.

6-07.01 Applicable Standards/Codes

Latest editions of the following standards / codes shall be applicable for the materials in scope of this Section:

BS 729 Hot dip galvanized coating on iron and steel articles

6-07.02 Products

The cable tray system shall be of one manufacturer and shall include factory-made trays. tray fittings connectors and necessary accessories and supports to form a complete cable support system.

The cable tray system shall include the following factory - made tray elements:

a) Straight cable trays and ladders
b) Fittings as horizontal and vertical bends of various angles, crosses, tees, wyes, reducers. vertical riser elements
c) Connectors
d) All necessary fixing accessories.

Manufacturer's standard accessories shall be used and site fabrication shall not be permitted.

Horizontal run of cables laid on cable tray and exposed to direct sunlight shall be provided with covering at higher level to allow for ventilation.

6-07.03 Materials

The whole of the tray work, trays, fittings, supports shall be of mild steel hot dipped galvanized after manufacture to BS 729. The thickness of the protective sheath on any element shall not be less than 55 microns.

Cable trays shall be constructed from mild steel hot dip galvanized and of minimum thickness of 1.5mm.

Insert elements, bolts, screws, pins, etc., shall be mild steel cadmium plated.

Tray work shall have oval perforations Ladder type trays shall be used for vertical runs as approved by the Engineer.

All trays (straight and fittings) shall be welded construction and be a heavy duty returned-flanged perforated type, unless specified otherwise. The minimum thickness of heavy duty returned flanged cable trays shall be 1.5mm.

Tray components shall be accurately rolled or formed to close tolerances and all edges rounded. Flanges shall have full round smooth edges.

Ladder racks shall be of similar construction. The rungs shall be spaced at maximum 300 mm. The system shall allow for installing additional rungs and for replacement of rungs.

For all trays, flanges shall be a minimum of 50 mm deep, unless otherwise specified.

Cable tray width and radius of curved sections shall be selected to suit the number of cables as shown on drawings and to the approval of the Engineer

Cable trays and accessories installed in hazardous and extremely corrosive

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environments shall be heavy duty GRP or 316 S31 grade stainless steel.

6-08 APPARATUS CONTROL PANELS (ACPs)

The panel shall be of sufficient size and dimensions to house various equipment for the installation. The panel shall be provided with lock and double set of keys. It shall be of the unit construction single fronted or double fronted type. It will be constructed such that doors are interlocked, preventing access to the devices installed inside without switching off the Main Circuit Breaker on incoming line.

This panel will contain the following equipment (but not limited to)

- Circuit breaker on incoming line.
- Circuit breakers, one for each outgoing line.
- Starters with thermal overload protection for equipment which does not have factory supplied and/or equipment-mounted starter.
- Relays, toggle switches, push button stations, hand-off-auto (HOA) switches - Labels on all components.
- Terminal strip.
- Relays and other devices for Temperature and Automatic Controls furnished by Controls Manufacturer for field installation.

Pilot lights, one for each starter, red for equipment operating.

All internal wiring and accessories clipped individually to the panel and arranged parallel or at right angles.

All indications shall be visible from the front of the panel. Prior to installation, the contractor shall submit for approval of the Engineer the electrical diagram of the whole installation and the suggested electric panel layout showing samples of instruments and components.

6-08 LOCAL ISOLATING SWITCHES (LIS)

The Contractor shall provide local isolating switches moulded-case type enclosed in metal boxes for disconnecting all power to the equipment in emergency and during maintenance, for all equipment controlled by remote ACP. These switches shall be installed near the equipment within visual range and shall be weather proof for outdoor installation

6-09 COMPONENTS

The HVAC panels shall be provided with all components as specified and as necessary for the satisfactory operation of the HVAC system Typical specifications are given hereunder:

6-09.1 Bus Bars

The bus bars shall be made of high conductivity electrolytic copper and shall be completely isolated and mechanically braced for the specified fault level. The phase identification of bus bars shall be by colours applied on full length of bus bars and these shall be red, yellow and blue for phases and black for neutral. The earth bus bar shall be green.

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The bus bars shall be triple pole. The neutral and earth shall be of appropriate size to meet the electrical and mechanical requirements of the system. The temperature rise shall not exceed 45oC at rated current.

6-09.2 Circuit Breakers

The circuit breaker shall be triple pole, moulded case, manually operated type with front drive grip handle. ON-TRIP-OFF indication shall be provided on all circuit breakers. The circuit breakers shall have the following protections and setting range unless otherwise shown on the drawings.

- Adjustable three pole, manual reset thermal overload release of setting range 80 to 100% of rated current.

- Magnetic triple pole short circuit release having range according to manufacturer's standard range.

The incoming circuit breaker shall have two numbers each of potential free normally open and closed auxiliary contacts rated for 2 amp, 230 VAC. The incoming circuit breaker shall also have ON, TRIP and OFF indicating lamps. The circuit breaker shall have specified rupturing capacity, without the use of back-up fuses. Auxiliary release and trip coils shall be provided for desired operation and/or interlockings as required.

6-09.3 Push Buttons

Push Buttons shall be momentary make/brake contact type (normally open/normally close). These shall be suitable for flush mounting. Push Buttons shall have round/square head. These shall have red and green colors for 'ON' 'OFF' switching operation respectively.

6-09.4 Ammeters and Voltmeters

All ammeters and voltmeters shall be flush mounting, moving iron, spring controlled type. The front dimensions shall be 96 x 96 mm.

The Ammeters shall have appropriate measuring scales to suit the rated currents of connected equipment and shall indicate an accurate and readable value of the measured current. The Ammeters shall have appropriate overscale range to cater for the initial transient high starting currents.

The meters shall be of accuracy class 1.5 according to BS-89 and 90 and suitable for connection to 5 Amps secondary of current transformers or directly through shunt. A red mark shall be provided at the working voltage on the scale of all voltmeters.

6-09.5 Selector Switches

Ammeter and voltmeter selector switches shall be complete with front plate, grip handle, and R-Y-B and OFF position for ammeters and RY-YB-BR-RN and OFF position for voltmeter.

6-09.6 Air Break Contactors

The contactor shall be air break, triple pole, 400V AC suitable for the type of duty to be performed. The main contacts shall be silver tipped, butt type with double break per pole Each contactor shall be provided with 230 VAC single phase operating coil, and minimum two normally open and two normally closed auxiliary contacts wired upto terminals The number of working auxiliary contacts shall be provided according to the system requirements.

6-09.7 Indicating Lamps

Indicating lamps shall be suitable for flush mounting, complete with base, 230 volt incandescent lamp and shall have rosettes of suitable color (green for ON, Red for OFF and Amber for TRIP).

6-09.8 Line up Terminals

Line up terminals wherever provided for control or power circuits shall be suitable for voltage and size of conductors.

The line-up terminals for controls shall be suitable for channel mounting. All necessary accessories such as end-plates, fixing clips, transparent label holder caps and label sheets with marking shall be provided.

6-09.9 Current Transformers

Air cooled, ring type current transformers shall be provided having transformation ratio as required. The current transformers shall be of suitable burden having accuracy class 1 0 and have 5 amps secondary.

6-09.10 Load Break Switches

Triple pole rotary 500 Volts AC on-load isolating switches of current rating as specified shall be provided complete with front drive grip handle and front plate

6-09.11 HRC Fuses

HRC fuses shall be provided complete with fuse bases, fuse etc. The fuses shall have a fusing factor as specified for class QI.

6-09.12 Control Selector Switches

The selector switches for lights and other controls shall be rotary cam type, having required number of positions, complete with knob and front plate with position indication.

6-09.13 Labels

Each equipment on the panel shall be identified by a nameplate. Metallic nameplate with 6mm high etched letters shall be attached to the panel or integral with it Lettering shall be cut nto the plate to a depth of not less than 0.4 mm and shall show a contrasting colour produced by filling with enamel or lacquer. Painting of lettering directly on the surface of the plate or panel will

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not be permitted

6-09.14 Outdoor Installation

All ACPs mounted outdoor or on roof shall be of weather proof construction minimum IP 55 rated suitable for operation at 46°C ambient temperature condition.

6-10 EARTHING

6-10.1 General

For scope of work refer to **clauses 6-01 and 6-02.**

All HVAC equipment with electricity connection and all ACPs and LISs panels shall have their frames, carcasses and all metal parts not normally carrying current, effectively and continually connected to the general mass of the earth. Each equipment and panel shall be separately connected to a main earth continuity conductor.

6-10.2 Earth Continuity Conductors

Earth continuity conductor shall be round, hard drawn, bare electrolytic copper wire of appropriate sizes as approved by the Engineer All fixing accessories, earthing clips. sweating sockets. lugs. thimbles, etc., shall be provided for a complete earthing installation.

6-11 CONDUITS AND CONDUIT ACCESSORIES

6-11.1 Material Description

The conduit for wiring shall be of polyvinyl-chloride material and other accessories shall be subject to Engineer's Approval.

The conduit shall be protected by two base coats of red oxide antirust paint and finished in first quality black enamel paint.

The conduit accessories. such as sockets, elbows, bushings, bends, etc., required for installation of conduit shall be furnished by the Contractor. The accessories shall conform to the same quality and specifications as for the conduits. All outlet boxes, inspection boxes, junction boxes. saddles, clamps etc., wherever required shall be provided by the Contractor.

6-11.2 Application of PVC Conduit

Manufactured smooth bends shall be used where conduit changes direction. Bending of conduit by heating or otherwise shall be allowed at special situation only, for which approval of Engineer shall be necessarily required. The use of sharp 90 degree bend and tees shall not be allowed. The bends shall have enlarged end to receive conduit without any reduction in the internal diameter at joint. Round Junction Boxes shall be provided with one piece PVC Cover plate which shall be installed on the box by means of galvanized screws. Pull box shall be installed in conduit runs, wherever required to limit the pulling length of cables. Pull Boxes should be installed in conduit runs to limit the pulling lengths as required. The rectangular inspection or pull boxes shall be 16 S.W.G. thick sheet steel having nipp es to receive PVC conduit with force fit. The sheet steel box shall be painted inside

and outside with black enamel paint over a base coat of red oxide antirust paint as approved by Engineer. The minimum length of inspection box shall not be less than four times the cables manufacturer's recommended bending radius of the cable. Bushes shall be used at pipe terminations and PVC solution for jointing of pipes.

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SECTION 7 - AIR INLETS AND OUTLETS

7-01 GENERAL

Before placing orders for these items, the Contractor shall check that all items to be supplied by the manufacturer comply for spread, throw, drop and noise, with capacities and characteristics as indicated on the drawings and schedules. All outlets shall be specifically selected for their particular application and designed for quite operation. All items are to be approved by the Engineer.

All air inlets/outlets shall be of material as indicated on the Drawings and Schedules, and/or as specified.

Colour and finish shall be subject to Engineer's approval. Ceiling diffuser face and margin sizes and styles shall be coordinated with false ceiling/boxing type All devices shall have substantial approved gaskets to completely prevent streaking on walls or ceilings due to leakage.

Where ceiling panels and ceiling diffusers are of different size, ceiling diffuser shall be centered in ceiling panel. Duct routing may slightly be adjusted, if necessary, for this purpose or duct drops for diffuser necks may be offset upto a max. of 30 degrees. or diffuser locations having requirement of greater than 30 degrees offset, flexible round insulated duct connection shall be used

All wooden frames for wall inlets/outlets (where not mounted directly on the duct) shall be 3/4" thick set permanently in the walls These frames shall be provided by the Contractor. The Contractor shall be responsible for all cuttings of walls, fixing of wooden frames in walls and repair of masonry/plaster required for fixing side-wall inlets/outlets. The Contractor shall furnish wooden frames for wall inlets/outlets to those responsible for civil construction for installation at locations indicated on shop drawings prepared by the Contractor for this purpose.

Ceiling inlets/outlets shall not be supplied on false-ceiling. Cutting of false ceiling (tiles) shall be the responsibility of the HVAC Contractor.

Manufacturer's certified free area for each type and size of grille, register, linear/square diffuser and ouver shall also be provided for the purpose of air balancing.

7-02 CEILING DIFFUSERS

Ceiling diffusers shall be of the sizes and characteristics as scheduled and shown on the Drawings.

Ceiling diffusers shall be furnished with volume dampers as furnished by the diffuser manufacturer, finished in black paint

Volume control for these diffusers shall be accessible through the diffuser from below the ceiling and shall maintain their setting when adjusted Each diffuser shall be provided with sponge rubber or felt gasket. Return diffusers shall be similar to supply diffusers unless otherwise indicated. Inner core shall be removable and shall be mounted on outer frame. (Throw pattern for supply diffusers shall be as shown on Drawings by arrows or as shown in schedule).

Ceiling diffusers intended for use with flexible round insulated duct shall have suitable inlet box.

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The jet diffuser shall have throw more than 50 ft.

7-03 GRILLES/REGISTERS

All side wall outlets and inlets shall be of sizes and characteristics as scheduled and shown on the Drawings.

Double deflection type grilles shall have vertical front bars and horizontal back bars.

All supply outlets shall have opposed blade dampers. finished in black paint, fixed to the outlet and shall be operatable with a removable key inserted from front of the grille.

All return and/or exhaust inlets shall have similar dampers if scheduled.

7-04 TRANSFER GRILLES

Transfer grilles shall be of the type and characteristics as scheduled These shall be installed on both sides of wall where no false ceiling is provided, or, where transfer grille is installed below false ceiling level unless otherwise scheduled. Transfer grilles shall be sight-tight where indicated.

7-05 EA/OA LOUVERS

All louvers shall be of approved construction as per AMCA standard 500-74. All louvers shall be fitted with aluminum mesh bird and anti vermin screens. The design of the OA inlet louver blades shall be suitable to arrest rainwater, sand and dust from incoming outdoor air Sizes are to be as given on the Drawings. Louvers shall be complete in all respects with mounting accessories. Louvers shall be of Scheduled material and finish. Design of OA and EA louvers shall be similar. All EA louvers shall have backdraft dampers upstream of louvers.

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SECTION 8- INSPECTION TESTING AND COMMISSIONING

8-01 GENERAL

8-01.1 The whole of the works supplied under this Contract shall be subject to inspection and tests by the Employer and/or Engineer should he so require, during manufacturing erection and after completion The inspection and tests shall include, but not be limited to, the requirements of this Section of the Specifications.

8-01.2 For this purpose the Engineer shall at all reasonable times, be allowed free and ready access to the Contractor's shop and the shops of his suppliers for the purpose of inspecting the specified equipment components, or any other parts, and obtaining information as to the progress of the work. Failure on the part of the Engineer at this or any other time, to discover or reject materials or work which do not meet specified requirements shall not be deemed an acceptance thereof nor a waiver of defects therein

8-01.3 Specific tests required by the various items of the Plant, Parts, materials and equipment shall be treated in accordance with the specifications of the corresponding clauses of the Specifications.

8-01.4 The Contractor shall submit to the Engineer, one month prior to the date of commencement of the balancing and performance tests, three (3) copies of the complete test procedure. The procedure, method and points of measurement as well as the method of calculation shall be approved by the Engineer before any test is carried. three (3) copies of the test results shall be furnished to the Engineer for his approval.

8-01.5 The Contractor shall supply all necessary testing and balancing instruments, and carryout any test of any kind on a piece of equipment, apparatus part of system or on a complete system if the Engineer requests such a test for determining specified or guaranteed data, as given in the Specifications or in the Schedule of Equipment. Necessary skilled staff shall be provided by Contractor.

8-01.6 Any damage resulting from the test shall be repaired and/or damaged material replaced with intimation to the Engineer, all to the satisfaction of the Engineer, and at no extra cost to the Employer Skilled staff shall again be provided by the Contractor.

8-01.7 In the event of any repair or any adjustment having to be made, other than normal running adjustment, the tests shall be void and shall be recommenced after the adjustment or repairs have been completed.

8-01.8 All testing, balancing and final adjustment shall be in accordance with the provision of the applicable ASHRAE Standards, or other approved relevant standards.

8-01.9 The Contractor shall test a piece of equipment, apparatus, parts of system or a complete system in accordance with method and Schedule of Tests provided by the Engineer to determine Specified or Guaranteed data, given in the Specifications, Schedule of Equipment and Contractor's Data Sheets.

8-01.10 The contractor shall be responsible for carrying out tests on the material/equipment/installation furnished by him.

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8-02 PRELIMINARY INSPECTION & TESTS

8-02.1 General

All equipment shall be inspected and tested to determine the completeness and general conformance to specified requirements, when operated independent of overall HVAC System for noise, vibration and electrical data.

8-02.2 Ductwork

Inspection on ductwork shall be carried out by Contractor's supervisor in the presence of Engineer's representative to the satisfaction of the Engineer

All joints in ducts and at outlets shall be physically inspected for air leakage. All dampers shall be tested for proper operation.

Ducts, plenums and casing shall be inspected and made substantially air tight before covering with insulation or concealing in the masonry. The terms substantially airtight shal be construed to mean that no air leakage will be noticeable through the senses of feeling or hearing.

8-02.3 Equipment

All HVAC equipment shall be inspected for visible damage, operation of moving parts. noise and vibration. Tests shall be carried out with readings of RPM. ampere, voltage. etc. to verify the name plate data.

8-02.4 Electrical Equipment

All electrical panels shall be cleaned and adjusted on site before application of power. The following tests shall be carried out:

1) Wire and cable continuity tests.

2) Insulation resistance tests, phase to phase and phase to earth, on all circuits and equipment, using 500 volts megger. The megger reading shall not be less than one meg.ohm.

3) Earth resistance between metallic conduit systems and earth must not exceed half (1/2) ohm.

4) Phasing out and phase rotation tests.

5) Operating tests on all protective relays to prove their correct operation before energizing the main equipment.

6) Operating tests on all starters, circuit breakers, etc.

8-03 BALANCING AND COMMISSIONING

8-03.1 Air Balancing

All air handling and ventilating equipment, ductwork air inlet and outlets and air volume control dampers shall be adjusted and balanced to deliver within 10% of the specified quantities indicated on the Drawings. Where the equipment or systems depend upon controls for proper operation. functioning and performance, the Engineer may ask the Contractor that the later shall be operated simultaneously with the equipment or system during tests.

If the air quantities cannot be delivered without exceeding the speed range of

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the sheaves or the available horsepower, the Engineer shall be notified before proceeding with the balancing of air distribution system.

Any addition/replacements required to meet the specified flow rates shall be the responsibility of the Contractor at his own cost.

8-03.2 Commissioning

Upon completion of air balancing and when the whole or part of HVAC System is substantially complete and ready for operation as specified, the Contractor shall carry out Commissioning. Appropriate Seasons are not necessary and the purpose of the commissioning is to start-up the whole or part of HVAC System with manual and/or automatic controls and to put the whole or part of HVAC system in operation to make it ready to provide cooling and/or heating.

8-04 PERFORMANCE TESTS

Each equipment of HVAC system shall be tested for performance after successful completion of Commissioning of that equipment to determine the Specified and Guaranteed Data at Specified Operating Conditions as shown in Equipment Schedule and Specifications. These tests shall be carried out in appropriate seasons.

The test data shall not deviate by more than five percent (5%) from the guaranteed capacity data.

Should any part of the apparatus or system fail to meet the specification requirements, it shall be adjusted, repaired or replaced to the satisfaction of the Engineer by the Contractor at his own cost. The complete Performance Test shall than be repeated.

8-05 RELIABILITY TRIAL TEST

After completing the above Preliminary Tests, adjustments, Commissioning and Performance Tests the Contractor shall carry out Reliability Trial Tests for the whole or part of system

The trial tests, both for summer and winter, shall operate continuously without major adjustment or repair to the satisfaction of the Engineer.

Should any part of the apparatus or system fail to operate continuously as specified, it shall be adjusted, repaired or replaced to the satisfaction of the Engineer and the Reliability Trial Tests shall be repeated operation without major adjustment or repair.

Reliability Trial Tests should be carried out during appropriate seasons in Defects Liability Period.

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SECTION 9- MEASUREMENTS AND PAYMENTS

9-01 GENERAL

Unless expressly excluded. the cost of all materials, equipment and works required by Technical Provisions of Specifications, acceptably furnished, installed and tested as Specified. shall be considered to be included in the amounts tendered against the item listed in the Schedule of Prices.

9-02 SOP ITEM NO. 1, 3, 7(a-1 through a-2), 8 (b-1 through b-3), 9 (b-1 through b-2), 11 (a-1 through a-5) & 15

9-02.1 Measurement

Measurement will be made of each item and all associated accessories and work acceptably furnished, installed and tested as individual units.

9-02.2 Payment

Payment of these items will be made at the Contract Unit Rates for these items entered in Schedule of Prices.

9-03 SOP ITEM NO. 2, 6(b), 11(b), 13 & 14

9-03.1 Measurement

No measurement will be made of the items mentioned above

9-03.2 Payment

Payment will be made at a Contract Lump sum Price entered for the respective item in Schedule of Prices.

9-04 SOP ITEM NO. 4

9-04.1 Measurement

Measurement will be made for surface area of installed sheet metal ducting and plenums and grease exhaust duct for different gauges. No measurement will be made for wastage. bracing f anges, hangers and supports, fasteners, anchor bolts air-turning vanes, splitter dampers, and grease exhaust duct protection.

9-04.2 Payment

Payment will be made for the number of units measured as provided above at the Contract Unit Rates as entered in SOP.

9-05 SOP ITEM No. 5

9-05.1 Measurement

Measurement will be made of the area of sheet metal to which the acoustic Liner or insulation is applied. No measurement will be made for accessories and adhesive.

9-05.2 Payment

Payment or deduction will be made for the number of units measured as above at the Contract Unit Rates entered in SOP.

9-06 SOP ITEM NO. 7(b through e)

9-06.1 Measurement

Measurement will be made of the core area of the respective item acceptably furnished, installed and tested. No measurement will be made of accessories and attachments.

9-06.2 Payment

Payment will be made for the number of units measured as provided above at the Contract Unit Rates as entered in SOP

9-07 SOP ITEM NO. 6(a) & 12

9-07.1 Measurement

Measurement will be made of the length of pipe/flex. Round duct/ flex. Duct connection route at centre line of pipe/ duct, for the piping/ ducting, fittings and accessories, acceptably furnished, installed and tested. No measurement will be made for fittings, accessories, attachments, hangers. nuts and bolts.

9-07.2 Payment

Payment will be made for the number of units measured as provided above at the Contract Unit Rates as entered in SOP

9-08 SOP ITEM NO. 16

Measurement and payment, as described in Volume-1 of Contract Document.

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PAKISTAN SPORTS BOARD (PSB)

REVAMPING AND REFURBISHMENT OF DIFFERENT FACILITIES AT PAKISTAN SPORTS COMPLEX, ISLAMABAD

PACKAGE 5
HVAC WORKS FOR AMIR KHAN BOXING ACADEMY AND HAMIDI HALL

BIDDING DOCUMENTS
VOLUME – III
DRAWINGS

NOVEMBER, 2026

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.
NESPAK House, Sector G-5/2, Islamabad, Tel: 051-9221910-13, Fax: 051-9221914

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

LIST OF DRAWINGS

SR. NO.	DRAWING NO.	TITLE
	HEATING, VENTILATION & AIR CONDITIONING WORK	
01	4908/04/TD/K00	HVAC - LIST OF DRAWINGS
02	4908/04/TD/K01	HVAC - LEGENDS, ABBREVIATIONS AND GENERAL NOTES
03	4908/04/TD/K02	HVAC - AMIR KHAN BOXING - GROUND FLOOR PLAN
04	4908/04/TD/K03	HVAC - HAMIDI HALL - GROUND FLOOR PLAN
05	4908/04/TD/K04	HVAC - HAMIDI HALL - FIRST FLOOR PLAN
06	4908/04/TD/K05	HVAC - AMIR KHAN BOXING & HAMIDI HALL ELECTRICAL DISTRIBUTION DIAGRAM
07	4908/04/TD/K06	HVAC - STANDARD DETAILS

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

CLIENT :- PAKISTAN SPORTS BOARD, ISLAMABAD

CONSULTANT :- NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD

REV.	DATE	DESCRIPTION	APPROVED
04			DRAWN: SADDIQ KHAN
03			SUBMITTED:
02			RECOMMENDED:
01	03/03/25		CHD./MER.:
			APPROVED:

PROJECT TITLE :- AMIR KHAN BOXING HALL & HAMIDI HALL, PAKISTAN SPORTS BOARD, ISLAMABAD

DRAWING TITLE :- HVAC - LIST OF DRAWINGS

DATE: MARCH 2025 | DWG. NO.: 4908/04/TD/K00 | ORIENTATION | SCALE: AS SHOWN | REV.: 0

NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE INDICATED
2. HVAC CONTRACTOR SHALL ENSURE COORDINATION OF VENTILATION WORKS WITH ALL OTHER SERVICES DURING SHOP DRAWING STAGE.
3. READ THIS DRAWING IN CONJUNCTION WITH ALL RELEVANT PROJECT DRAWINGS.
4. FOR ELEVATIONS AND SECTIONS OF THE BUILDING REFER TO RELEVANT ARCHITECTURAL DRAWINGS.
5. ALL ELECTRICAL CABLING FROM MAIN BUILDING PANELS TO ACP & FROM ACP TO EQUIPMENT IS IN SCOPE OF HVAC CONTRACTOR.
6. THESE DRAWINGS ARE NOT FOR CIVIL CONSTRUCTION.
7. THE SHOP DRAWING SHALL BE PREPARED ON THE BASIS OF CONSTRUCTION DRAWING AND SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL.CONSTRUCTION SHALL BE MADE ACCORDING TO THE APPROVED SHOP DRAWING.
8. ALL DRAIN PIPING FROM EQUIPMENT SHALL BE TERMINATED AT NEAREST FLOOR DRAIN POINTS BY HVAC CONTRACTOR IN COORDINATION WITH RELEVANT SERVICES.
9. FOR CONTROLS AND ELECTRICAL WORKS RELEVANT TO HVAC SCOPE OF WORK, REFER RELEVANT SECTION IN THE CONTRACT DOCUMENTS
10. SPARE CAPACITY SHALL BE ACCORDING TO MAJOR LOAD ON ACP

ABRV. DESCRIPTION

VD	VOLUME DAMPER
FD	FIRE DAMPER
FC	FLEXIBLE DUCT CONNECTION
TV	ELBOW WITH TURNING VANES
ACP	APPARATUS CONTROL PANEL
EF	EXHAUST FAN
AL	ACCOUSTIC LINING SIZE SHOWN IS CLEAR INSIDE DIMENSIONS
F	FILTER
PAC	PACKAGED AIR CONDITIONER

LEGEND AND ABBREVIATIONS

SYMBOL	DESCRIPTION
150x100	DIMENSION OF AIR DUCT IS SHOWN
	DUCT TURNING UP (SUPPLY)
	DUCT TURNING UP (RETURN/EXUAUST)
	DUCT TURNING DOWN (SUPPLY)
	DUCT TURNING DOWN (RETURN/EXUAUST)
	VOLUME DAMPER
	FIRE DAMPER
	ACCOUSTIC LINING SIZE SHOWN IS CLEAR INSIDE DIMENSIONS
	FLEXIBLE DUCT CONNECTION
R(D)	INCLINED RISE (DROP) IN THE DIRECTION OF FLOW
	ELBOW WITH TURNING VANES
	SECTION THRU SUPPLY/O.A. DUCT
250x150	SECTION THRU EXHAUST/RETURN DUCT ARROW SIZE WRITTEN FIRST
	FILTER
PAC 1	EQUIPMENT IDENTIFICATION PACKAGE AIR CONDITIONING UNIT NO.1
3 / 02	REFER TO DETAIL ARE DRAWING NO.2
4 / 05	SECTION LINE, SECTION DRAWN AS 4 OF DRAWING NO.5
Ø18 / 960 A	SUPPLY AIR OUTLET,Ø18 INCHES CORE SIZE 960 CFM CODE "A" AS LISTED IN EQUIPMENT SCHEDULE
54x18 / 1925 B	RETURN/EXHAUST AIR INLET,54x18 INCHES CORE SIZE 1925 CFM CODE "B" AS LISTED IN EQUIPMENT SCHEDULE
	APPARATUS CONTROL PANEL
	EXHAUST FAN
	EXHAUST FAN WITH BACK DRAFT DAMPER

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA)
EPADS

CLIENT :- PAKISTAN SPORTS BOARD ISLAMABAD

CONSULTANT :- NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD

REV.	DATE	DESCRIPTION	APPROVED
04			
03			
02			
01	03-2026		

DRAWN SADDQ KHAN
SUBMITTED
RECOMMENDED
CHD MER
APPROVED

PROJECT TITLE :- AMIR KHAN BOXING HALL & HAMIDI HALL, PAKISTAN SPORTS BOARD, ISLAMABAD

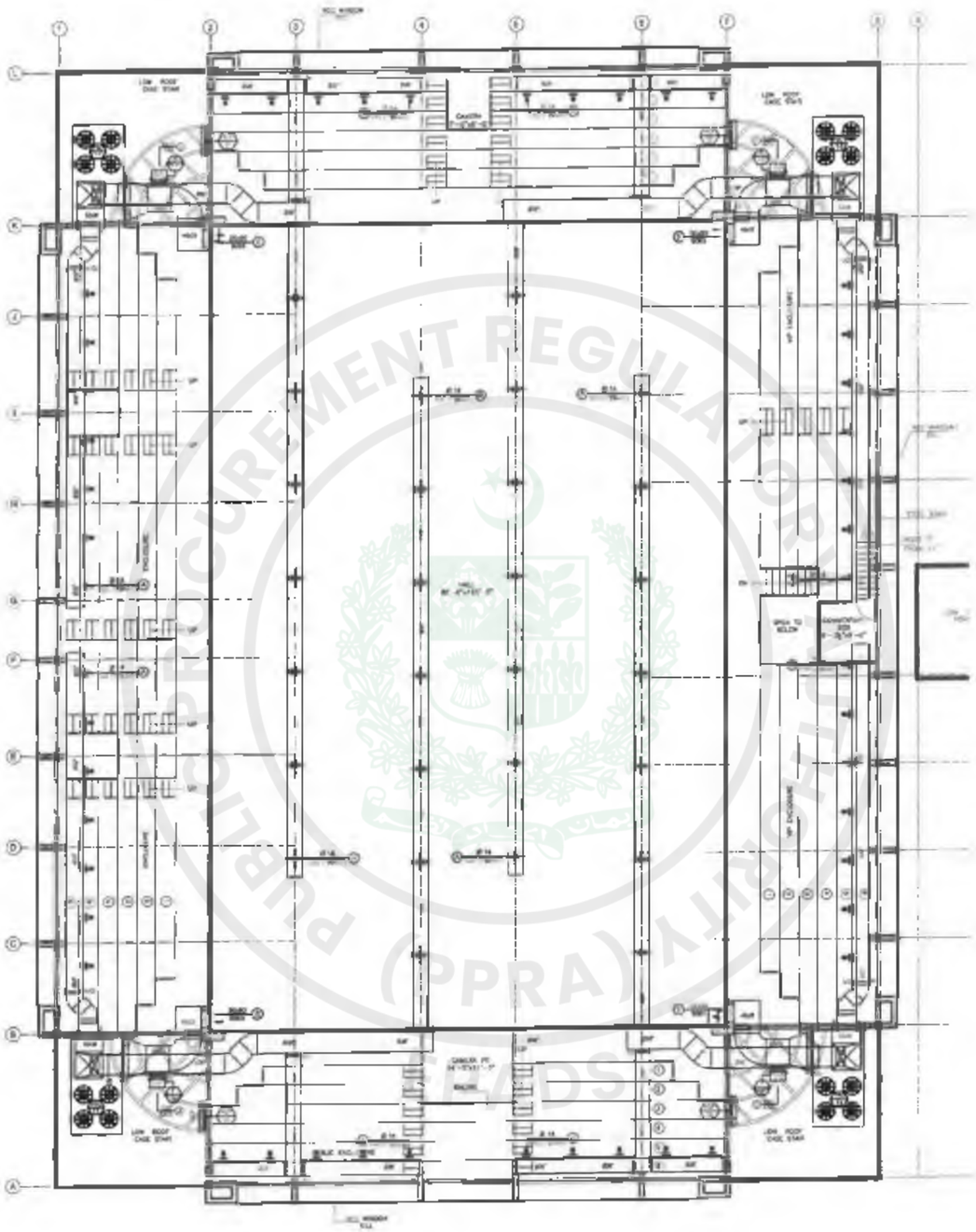
DRAWING TITLE :- HVAC - LEGENDS, ABBREVIATIONS AND GENERAL NOTES

ORIENTATION | SCALE: AS SHOWN

DATE: MARCH, 2026

DWG. NO. 4908/04/TD/K01

REV.



1/02 AMIR KHAN BOXING
GROUND FLOOR PLAN

NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.
2. FOR LEGENDS, AND GENERAL NOTES PLEASE REFER TO DRAWING NO. [illegible]
3. CLADDING SHALL BE PROVIDED ON ALL EXPOSED DUCTS.

CLIENT :-
PAKISTAN SPORTS BOARD, ISLAMABAD

CONSULTANT :-
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.

REV.	DATE	DESCRIPTION	APPROVED
04			
03			
02			
01	21-10-25		

DRAWN	SADDI KHAN
SUBMITTED	
RECOMMENDED	
CHECKED	
APPROVED	

PROJECT TITLE :-
AMIR KHAN BOXING HALL & HAMIDI HALL OF PAKISTAN SPORTS BOARD, ISLAMABAD

DRAWING TITLE :-
AMIR KHAN BOXING
HVAC - GROUND FLOOR PLAN

DATE: MARCH, 2026
DWG NO.: 4908/04/TD/K02
ORIENTATION:
SCALE:
REV.: 04

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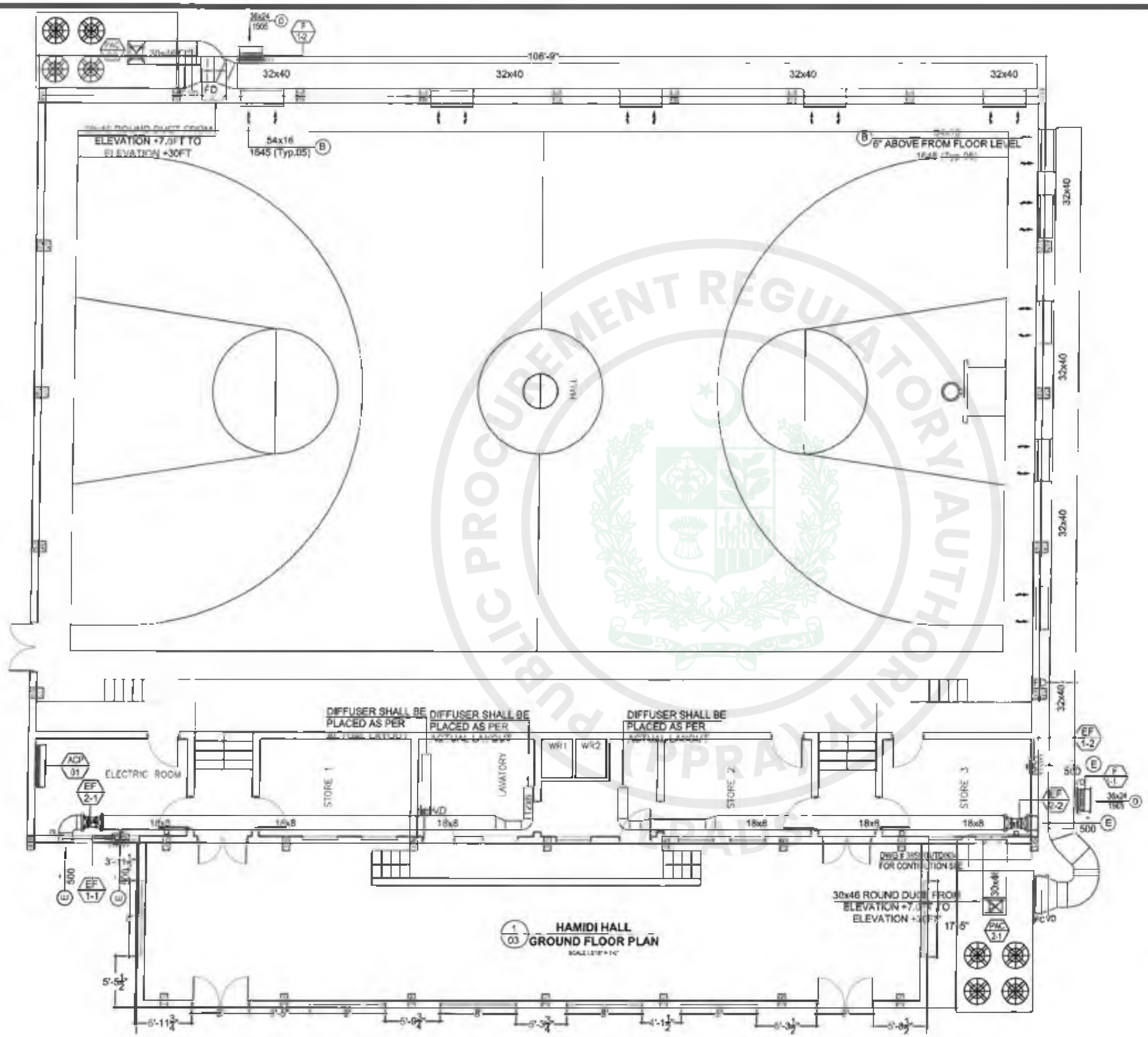

NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.
2. FOR LEGENDS, AND GENERAL NOTES PLEASE REFER TO DRAWING NO.4908/04/TD/K01&02.
3. CLADDING SHALL BE PROVIDED ON ALL EXPOSED DUCTS.

CLIENT :- PAKISTAN SPORTS BOARD, ISLAMABAD	CONSULTANT :- NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. NESPAK House, Sector G-5/2, Islamabad - PBAX: +92-51-9221910-13 E-mail: hkm-bac@nespak.com.pk	04		DRAWN	SAOOD KHAN
		03		SUBMITTED	
		02		RECOMMENDED	
		01	00-00-00	CHD./VER.	
		REV.	DATE / DESCRIPTION	APPROVED	APPROVED

PROJECT TITLE :- AMIR KHAN BOXING HALL & HAMIDI HALL OF PAKISTAN SPORTS BOARD, ISLAMABAD

DRAWING TITLE :- HAMIDI HALL HVAC - GROUND FLOOR PLAN

DATE	DWG. NO.	ORIENTATION	SCALE
MARCH, 2026	4908/04/TD/K03		

REV.

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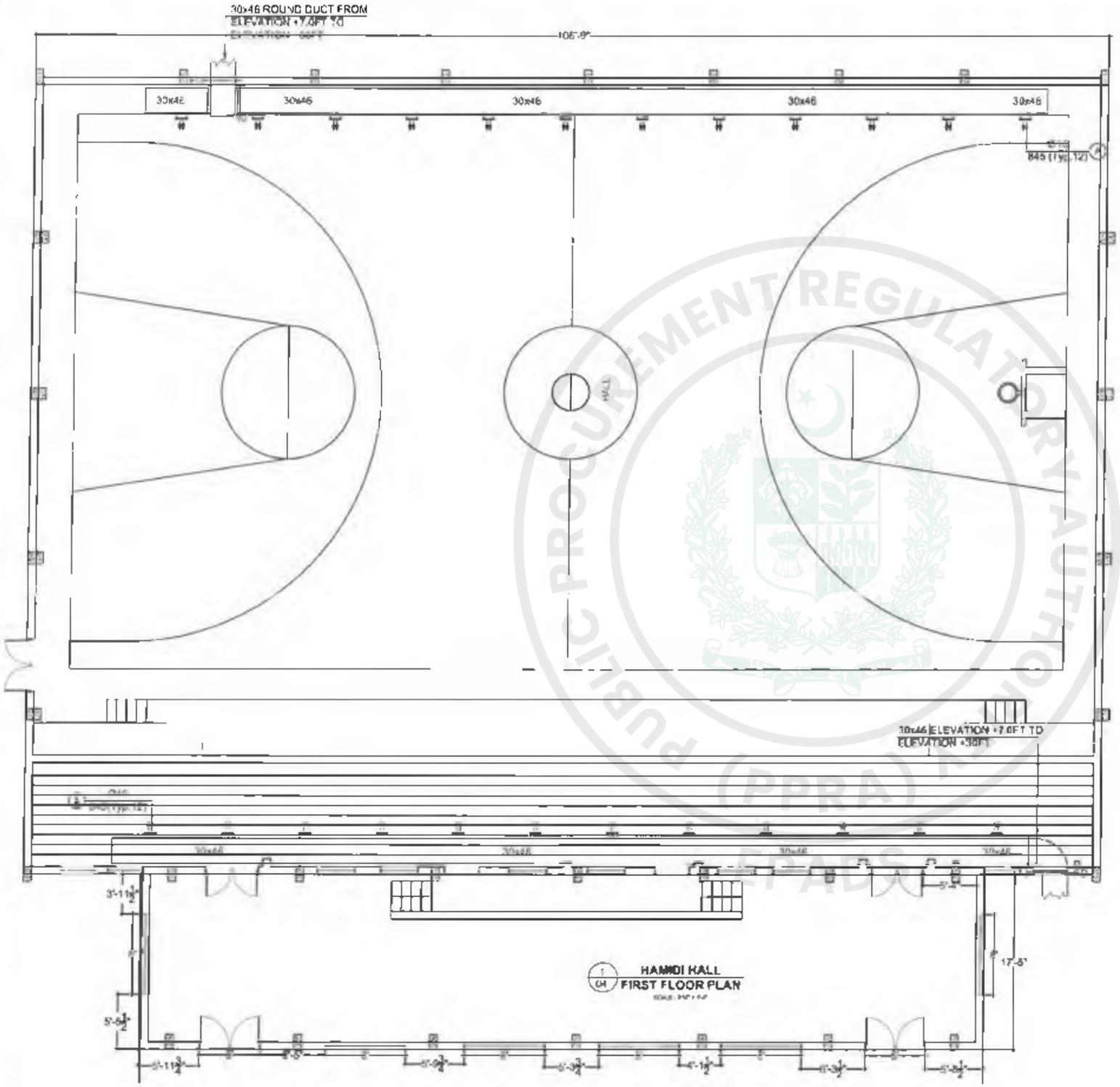


NOTES:

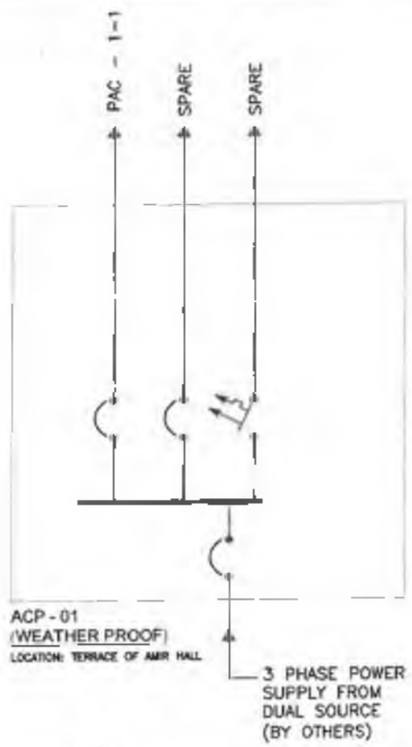
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.
2. FOR LEGENDS, AND GENERAL NOTES PLEASE REFER TO DRAWING NO.M-E-LEGENDS
3. CLADDING SHALL BE PROVIDED ON ALL EXPOSED DUCTS.

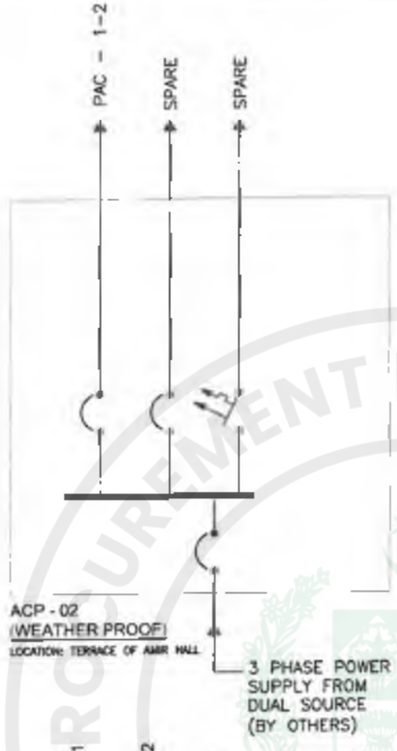
CLIENT :- PAKISTAN SPORTS BOARD, ISLAMABAD	CONSULTANTS:- NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	04			DRAWN	SAQOO KHAN	PROJECT TITLE :- AMIR KHAN BOXING HALL & HAMIDI HALL OF PAKISTAN SPORTS BOARD, ISLAMABAD
		03			SUBMITTED		
		02			RECOMMENDED		
		01	00-00-00		APPROVED		
		REV.	DATE	DESCRIPTION	APPROVED		

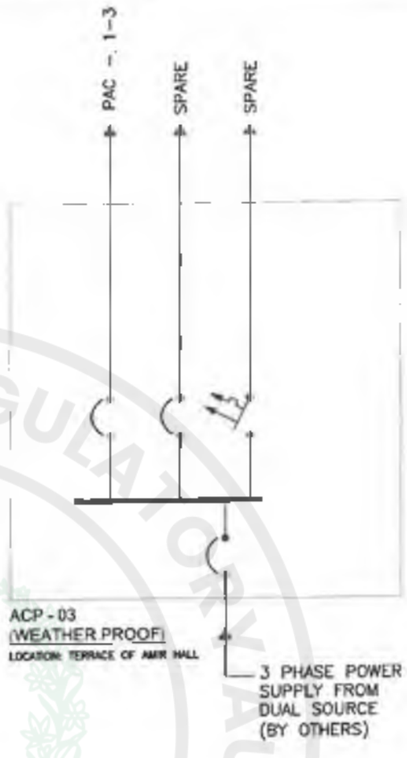
DRAWING TITLE :- HAMIDI HALL HVAC - FIRST FLOOR PLAN

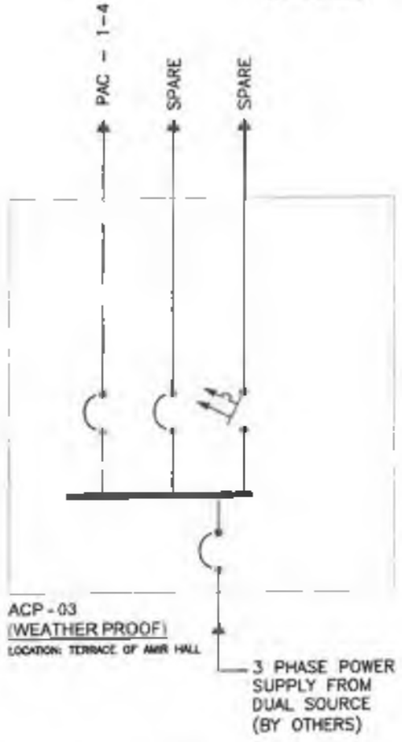
DATE: MARCH, 2026 | DWG. NO: 4908/04/TD/K04 | ORIENTATION: | SCALE: ISLAMABAD | REV.

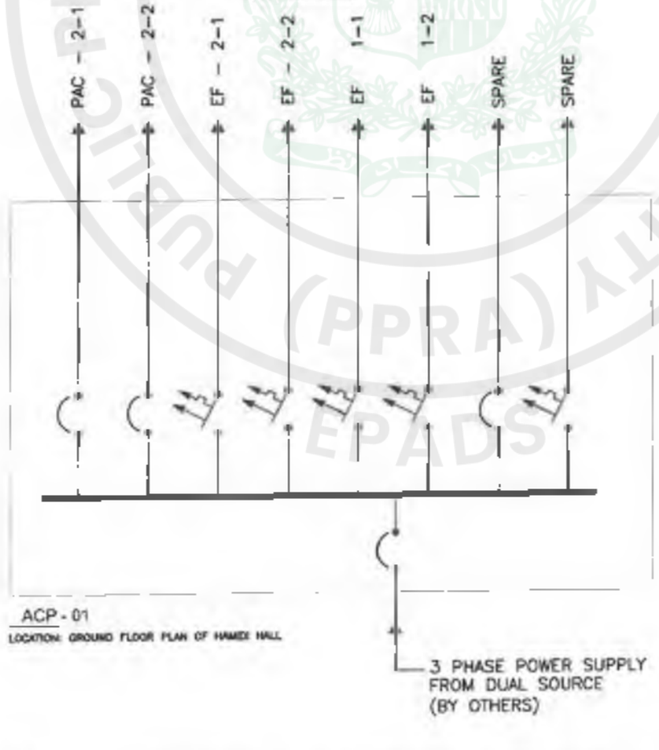
PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS











NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED.
2. FOR LEGENDS, AND GENERAL NOTES PLEASE REFER TO DRAWING NO. 4908/04/TD/K01

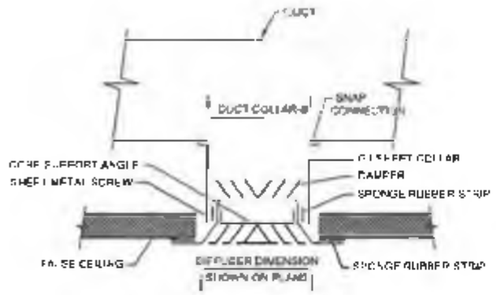
CLIENT :- PAKISTAN SPORTS BOARD, ISLAMABAD	CONSULTANT :- NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	04		DRAWN	SAJJAD KHAN
		03		SUBMITTED	
		02		RECOMMENDED	
		01	00-00-00	CHD./VER.	
		REV.	DATE	APPROVED	APPROVED

PROJECT TITLE :- AMIR KHAN BOXING HALL & HAMIDI HALL OF PAKISTAN SPORTS BOARD, ISLAMABAD

DRAWING TITLE :- AMIR KHAN BOXING & HAMIDI HALL
HVAC - ELECTRICAL DISTRIBUTION DIAGRAM

ORIENTATION: | SCALE: NTS | REV. 0 | DATE: MARCH, 2026 | DWG. NO. 4908/04/TD/K05

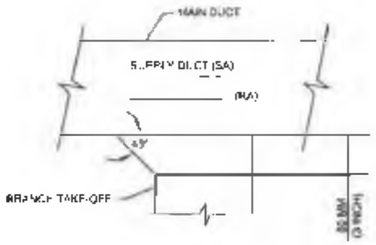
PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS
NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD

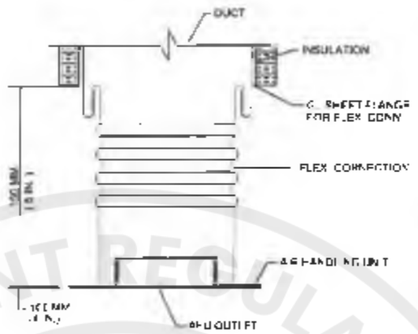


NOTES

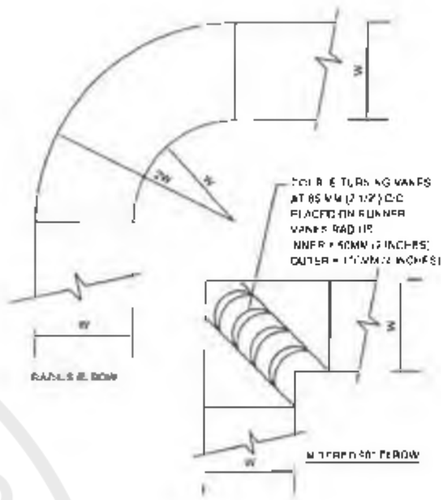
1. DIFFUSER SHOULD NOT BE SCREWED TO OR SUPPORTED FROM CEILING FRAME OR PANELS
2. DETAIL SHOWN ONLY INDICATIVE ACTUAL DETAIL TO BE PROVIDED BY CONTRACTOR AFTER COORDINATING WITH FALSE CEILING DETAILS

DIFFUSER INSTALLATION

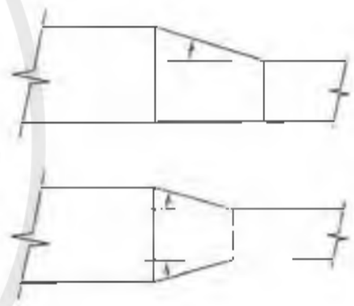




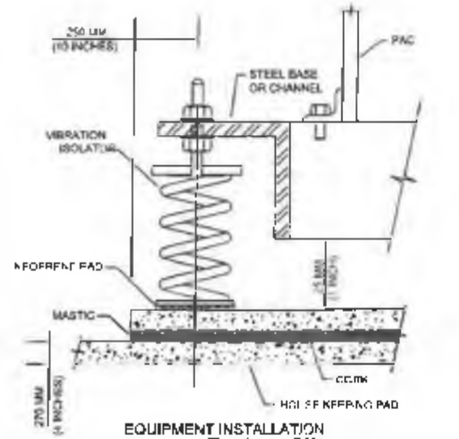
FLEXIBLE DUCT
CONNECTION



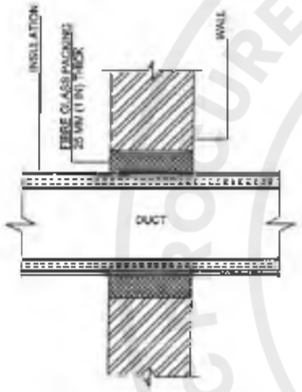
DUCT ELBOW FABRICATION



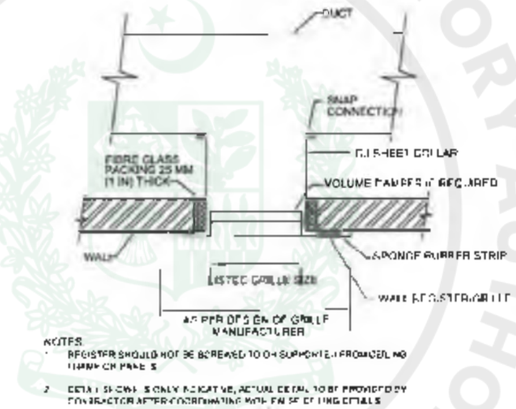
DUCT TRANSITION
FABRICATION



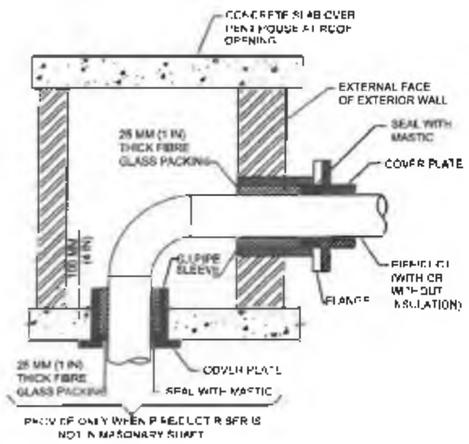
EQUIPMENT INSTALLATION
WITH VIBRATION ISOLATOR



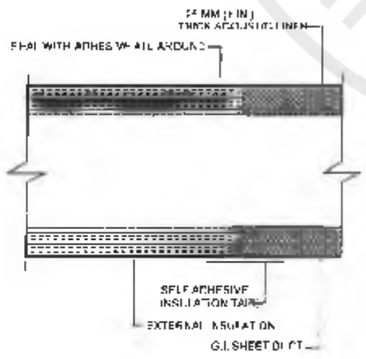
DUCT THROUGH WALL
SUPPLY AND RETURN



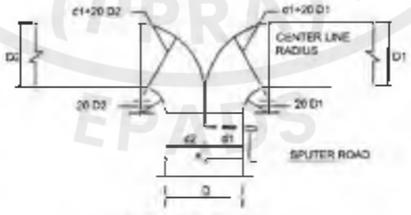
WALL REGISTER/GRILLE
INSTALLATION



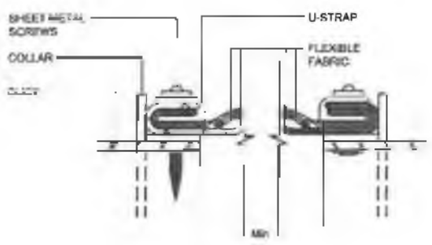
PIPE/DUCT THRU EXTERIOR
WALL AND ROOF



JOINT AT ACOUSTIC LINER
AND EXTERIOR INSULATION



TYPICAL TAKE OFF



FLEXIBLE CONNECTION

NOTES:

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2. FOR LEGENDS AND GENERAL NOTES PLEASE REFER TO DRAWING NO. [illegible]
3. CLADDING SHALL BE PROVIDED ON ALL EXPOSED DUCTS.

CLIENT: PAKISTAN SPORTS BOARD, ISLAMABAD	CONSULTANT: NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD.	04		DRAWN	SAQIB KHAN
		03		SUBMITTED	
		02		RECOMMENDED	
		01	00/00/00	CHECKED	
		REV	DATE	DESCRIPTION	APPROVED

PROJECT TITLE: AMIR KHAN BOXING HALL & HAMIDI HALL, PAKISTAN SPORTS BOARD, ISLAMABAD

DRAWING TITLE: HVAC - STANDARD DETAILS

DATE: MARCH 2026 | DWG. NO.: 4908104/TD/K08 | ORIENTATION | SCALE: NTS | REV.

PROCUREMENT REGULATORY AUTHORITY (PPRA) PUBLIC EPADS