

Standard Bidding Document

CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI (Works)

National

Single Stage-Two Envelope



July 28, 2026

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REQUEST FOR BIDS

PROCUREMENT OF CIVIL WORKS

1. The **JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA))** has reserved Funds for the procurement planned for FY **2026-27**. The **JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA))** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI**" with the reference of "**P72430**".

2. The **JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA))** invites sealed Bids from eligible Bidders for procurement of Works (**CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI**) 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, 2004 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**. 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/72430>** 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 **Wednesday, August 19, 2026 11:00 AM**. E-bids will be opened by using

EPADS v2.0 on the same day at **Wednesday, August 19, 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 registration process is available at <https://www.youtube.com/watch?v=MNW6T38v7tc>.

In terms of Rules 48 of Public Procurement Rules, 2004 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 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 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, consortium or association 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 Statutory 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 -Invitation for Bids

Section II Instructions to Bidders (ITBs)

Section III Bid 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 Particular Conditions of Contract (PCC)

Section X 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 31 of the Public Procurement Rules 2004.

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 23 of the Public Procurement Rules 2004 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 27 of the Public Procurement Rules 2004, 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 Constituting the Bids

9.1. The Bids prepared by the Bidder shall constitute of all the documents required in the BDS.

10. Documents Establishing Eligibility of Material, Equipment and Works, their Conformity to Bidding Documents

10.1. The bid prepared by the bidder shall constitute the following components: -

10.1.1. Documentary evidence established in accordance with ITB 10 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;

10.1.2. Documentary evidence established in accordance with ITB 11 that the bidder has been authorized to carry out the Construction works;

10.1.3. Documentary evidence established in accordance with ITB 11 that the bidder is eligible and/or qualified for the subject bidding process;

10.1.4. Form of Bid and Bid Prices completed in accordance with ITB 12 and 13;

10.1.5. Completed schedules as required, including priced Bill of Quantities in accordance with ITB 13.

10.1.6. Technical Proposal completed in all aspects in accordance with ITB-15.

10.1.7. Bid security or Bid Securing Declaration furnished in accordance with ITB 17;

10.1.8. Any other document required in the BDS.

10.2. 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.

10.3. 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.

10.4. 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:

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

10.4.2. 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;

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

10.5. 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.

11. Documents Establishing Eligibility and Qualification of the Bidder

11.1. 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.

11.2. 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".

11.3. 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:

11.3.1. 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.

11.3.2. 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.

11.3.3. That the bidder meets the qualification criteria listed in Section-V, Evaluation and Qualification Criteria and BDS.

12. Forms of Bid

12.1. 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.

13. Bid Prices

13.1. 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.

13.2. 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.

13.3. Items not listed in the Price Schedule shall be assumed not to be included in the bid, and provided that the bid is still substantially responsive in their absence or due to their nominal nature, the corresponding average price of the respective item(s) of the remaining substantially responsive bidder(s) shall be construed to be the price of those missing item(s):

Provided that:

13.3.1. where there is only one (substantially) responsive bidder, or

13.3.2. 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.

13.4. The Bid price to be quoted in the Form of Bid in accordance with ITB 12 shall be the total price of the bid.

13.5. 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.

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

13.7. 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 27, unless otherwise price adjustment is permissible under Conditions of the Contract.

13.8. 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.

14. Currencies of Bid and Payment

14.1. Prices shall be quoted in Pakistani Rupees unless otherwise specified in the BDS. Comparison of bids and tie of bid shall be treated in accordance with the Rule 30(2) of Public Procurement Rules, 2004.

15. Documents Comprising the Technical Proposal

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

16. Bid Validity Period

16.1. 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.

16.2. 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 26 of the Public Procurement Rules, 2004.

17. Bid Security or Bid Securing Declaration

17.1. Pursuant to ITB 11.1 unless otherwise specified in the BDS, the bidder shall furnish as part of its bid, a Bid Security in accordance with Rule 25 of the Public Procurement Rules, 2004 in the amount and currency specified in the BDS or Bid Securing Declaration as specified in the BDS in the format provided in Section VII (Standard Bidding Forms).

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

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,

17.2. 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:

17.2.1. 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;

17.2.2. A cashier's or certified cheque; or

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

17.3. The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in Section VII (Standard Bidding Forms) or another form approved by the Procuring agency/Employer prior to the bid submission.

17.4. The Bid Security shall be payable promptly upon written demand by the Procuring agency/Employer in case any of the conditions listed in ITB 17.9 are invoked.

17.5. Any bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with ITB 17.1 or 17.3 shall be rejected by the Procuring agency/Employer and shall be declared as non-responsive bid, pursuant to ITB 27.

17.6. 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 16. 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:

17.6.1. The expiry of the Bid Security;

17.6.2. 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 Bidding documents;

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

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

17.7. The successful bidder's Bid Security will be discharged upon the bidder signing the contract pursuant to ITB 40, or furnishing the performance security (or guarantee), pursuant to ITB 41.

17.8. The Bid Security may be forfeited or the Bid Securing Declaration executed:

17.8.1. if a Bidder:

17.8.1.1. 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 16.2; or

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

17.8.2.1. to sign the contract in accordance with ITB 40; or

17.8.2.2. to furnish performance security (or guarantee) in accordance with ITB 41.

17.9. 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 all future members as named in the letter of bid.

18. Withdrawal of Bids

18.1. 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.

19. Format and Signing of Bid

19.1. 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 27 of the Public Procurement Rules, 2004. 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. 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 18**.

E. OPENING AND EVALUATION OF BIDS

23. Opening of Bids

23.1. The Procuring Agency will open bids in accordance with Rule 28 of the Public Procurement Rules, 2004 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 31 of the Public Procurement Rules, 2004.

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 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 –

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 **GCC** and the **PCC** 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 30, 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 27, it shall reject the bid.

28. Correction of Arithmetic Errors

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

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

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

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

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

28.2. The amount stated in the Bid will, be rectified by the Procuring agency/Employer in accordance with the above procedure for the correction of errors and, with, the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount, its bid shall be rejected after forfeiture of Bid Security or execution of the Bid Securing Declaration, as the case may be, in accordance with **ITB 41.3**.

29. Conversion to Single Currency

29.1. 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. Comparison of bids quoted in different currencies and conversion of bids into a single currency shall be carried out in accordance with Rule 30(2) of the Public Procurement Rules, 2004.

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 27**.

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 29;

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 11**.

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. 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, 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. In order to identify the Abnormally Low Bid (ALB) following approaches can be considered to minimize the scope of subjectivity:

35.1.1. Comparing the bid price with the cost estimate;

35.1.2. Comparing the bid price with the bids offered by other bidders submitting substantially responsive bids; and

35.1.3. Comparing the bid price with prices paid in similar contracts in the recent past either government- or development partner-funded.

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 11**

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 11**, 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 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 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 Most Advantageous Bidder relating to the following areas:

37.1.1. a minor alteration to the technical (drawings, design technical specifications) details of the statement of works;

37.1.2. Methodology, work plan, staffing in view to streamline the work;

37.1.3. a minor amendment to the Particular conditions of Contract;

37.1.4. finalizing payment arrangements;

37.1.5. clarifying details that were not apparent or could not be finalized at the time of Bidding;

37.2. 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.

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 33 of the Public Procurement Rules, 2004. 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 35 of the Public Procurement Rules, 2004.

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 41** and signing of the contract in accordance with **ITB 40**.

39.4. Upon the successful bidder's furnishing of the performance security (or guarantee) pursuant to **ITB 41**, 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 17**.

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 48 of the Public Procurement Rules, 2004 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 19 of the Public Procurement Rules, 2004 i.e. Blacklisting and "Blacklisting and Debarment of Bidders or Contractors Regulations 2024.



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: JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA)) The subject of procurement is: CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI Expected commencement date: Friday, September 18, 2026
2.	2.1	Financial year for the operations of the Procuring Agency: 2026-27 Name and identification number of the Contract: P72430
3.	3.1	JV/Consortium or Association Allowed: Yes Number of JV/Consortium Members: 1
B. Bidding Documents		

4.	6.2 & 6.4	The Bidders may seek clarifications through EPADS v2.0 : Clarification Date: Monday, August 10, 2026
5.	7.2	Any addendum, in case issued, shall be published on JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA)) 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. <i>see Eligibility Criteria</i>
8.	11.2	Works and Their related documents: <i>See section Required Scope of Work</i>
9.	11.1	Price schedule will be provided according to the format defined and acquired. <i>see section price schedule.</i>
10.	11.4	Specifications: <i>see section of specifications.</i>
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: 120 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
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; JINNAH INTERNATIONAL AIRPORT , Airport Sub-Division, Malir (District), Karachi (Division), Sindh (Province). Bids that are not submitted on EPADS v2.0 shall be disqualified. The deadline for Bids submission is: Wednesday, August 19, 2026 11:00 AM
E. Opening and Evaluation of Bids		

18.	24.1	The Bids opening shall take place on EPADS v2.0. Day : Wednesday Date: August 19, 2026 Time : 11:30 AM
19.	30.2	Selection technique adopted will be: Least Cost Based Selection (LCBS) <i>see Evaluation Criteria</i>
F. Award of Contract		
20.	41.1 & 41.2	The Performance guarantee shall: 5.00%. The Performance Guarantee shall be acceptable in the form of: Pay Order, Bank Guarantee
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

Bidder's Type	Required Registration
Any	NADRA CITIZENSHIP (CNIC/NICOP) FBR (NTN) PEC

Eligibility Criteria	Document
Bid Security: Attach Bank draft / pay order / CDR of Rs. 25,000,000/- in a separate sealed envelope and provide same in original before closing date/time of technical tender opening and attach scanned copy here.	Yes
Legal Status of Firm: Certificate of Incorporation / Memorandum & Articles of Association (for Private Limited Co.), Partnership Deed (for Partnership Firm), or Affidavit for Sole Proprietorship on E-stamp paper worth at least Rs. 500/-.	Yes
Joint venture (if applicable): Joint Venture Agreement (if applicable). In case of a foreign firm/company, Joint Venture with a Pakistani firm and valid registration with SECP is mandatory. In case not applicable , attach N/A certificate/undertaking.	Yes
Blacklisted firms and Litigations: Affidavit on non-judicial stamp paper worth at least Rs. 500/- stating that the company has not been blacklisted by any Govt./Semi-Govt./Autonomous body. Details of accompanying pending litigations, if any, must be enclosed.	Yes
Active tax payer status: Valid Income Tax Registration Certificate and proof of active status on the FBR Active Tax Payer List (ATL).	Yes
PEC registration in relevant category i.e. C-2 or above : Valid PEC Registration Certificate in Category C2 or above with specialized codes CE-09, CE-10, CE-11, BC-01, BC-02, BC-03, EE-04, EE-05, EE06	Yes

Provincial Professional Tax Certificate : Valid Sindh Professional Tax Certificate issued by the provincial Revenue Authority.	Yes
Bidding documents: Each page duly signed and stamped by Authorized representative of the bidder as given below, uploaded on EPADS.	No
Authority Letter / Power of Attorney: In case the bidding documents are not signed directly by the owner/proprietor, a valid Power of Attorney in favor of the authorized signatory along with CNIC copies of both individuals must be uploaded.	Yes
Works in Hand: Copy of Work Orders / Letters of Award (LOA) / Letters of Intent (LOI) for at least 03 Building works costing Rs. 700 (M) or above, currently in progress, awarded by Govt, semi-govt or autonomous bodies	Yes
Specific Works Experience: Must have successfully completed at least three (3) projects of building works within the last (5) years, each with a minimum cost of Rs. 700 Million. Attach proof in the form of completion certificates.	Yes
Performance Certificates: Satisfactory completion certificates signed explicitly by the respective clients / procuring agencies for all referenced projects.	Yes
ISO Certifications: Valid ISO 9001, ISO 14001 and ISO 45001 standards certifications.	Yes
Average Annual Turnover: Minimum average annual construction turnover of Rs. 700 Million during the last three (3) financial years. Must be supported by audited financial statements conducted by a registered Chartered Accounting firm or respective banks.	Yes
Engineering Staff (PEC Registered): Must formally commit qualified technical personnel including: • 1 × Project Manager: B.Sc. Civil Engineering with minimum 12-15 years of experience. • 2 × Resident/Site Engineers: B.Sc. Civil Engineering with minimum 5-7 years of experience. • 1 × Electrical/Mechanical Engineer: B.Sc. Electrical/Mechanical with minimum 5 years of experience.	Yes

Evaluation Criteria

Least Cost Based Selection (LCBS)

Technical Marks	100
Passing Marks	100
Bidding Document	
Please download and read carefully the attach document titled "Bid Specifics" contained in technical submission and upload a signed and stamped copy of the whole document along with any additional data required therein. (Quantitative)(Doc Required)	100

Jobs/Lots

Jobs Without Lots :

Job	Delivery Schedule	Quantity	Bid Security
CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI	Address: JINNAH INTERNATIONAL AIRPORT , Airport Sub-Division, Malir (District), Karachi (Division), Sindh (Province). Schedule: 730Days Quantity: 1/Qty	1/Qty	25000000 PKR

Related Services :

No



Work Specifications and Market Rates

Jobs Without Lots :

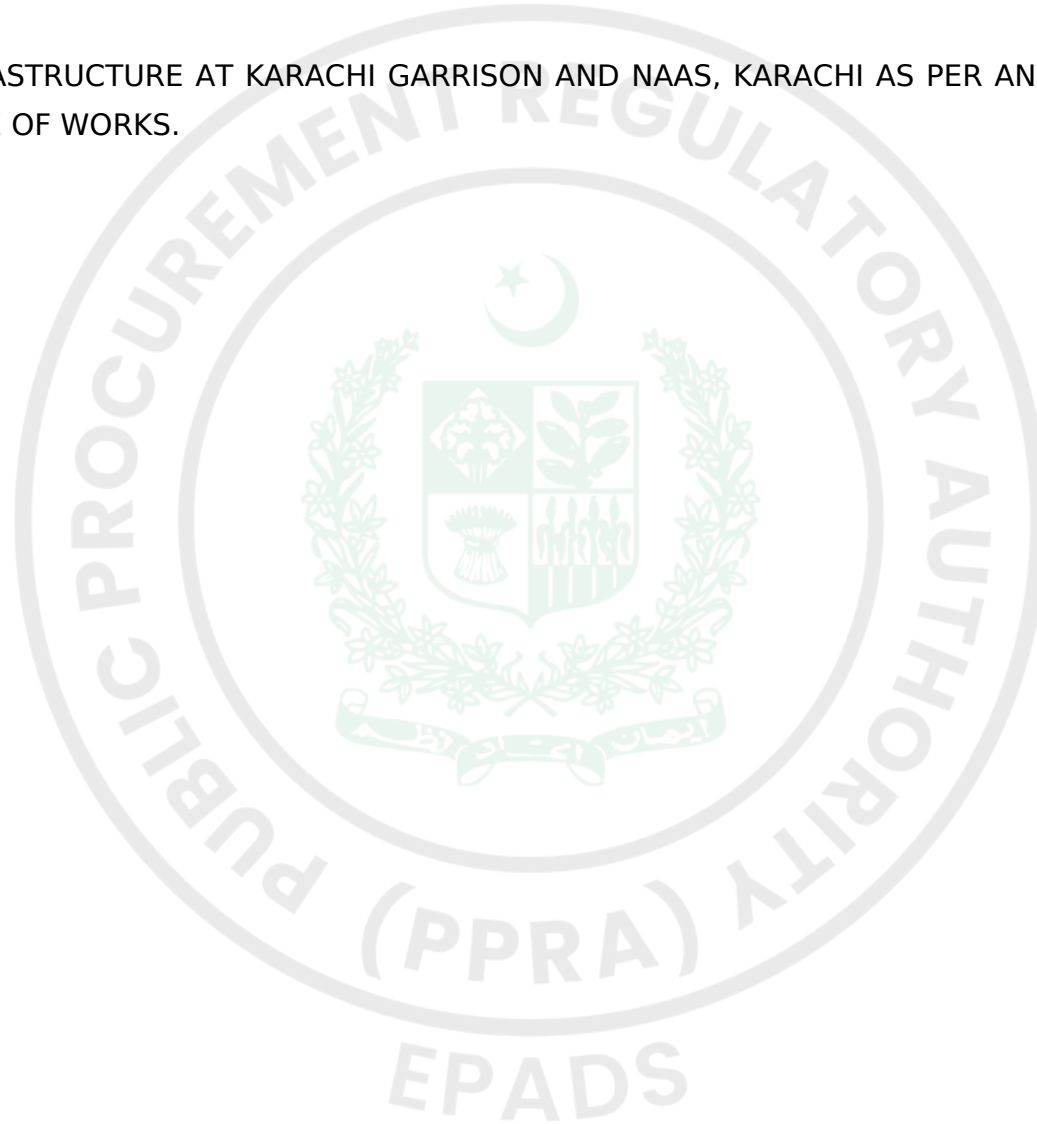
Job: CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI

Specifications / Requirements:

Sr. No	DESCRIPTION	AMOUNT (RS.)
1	32 x JS Apartment (02 Blocks)	191145320
2	Barrack for 128 Personnel	98867943
3	Female trainee Hostel (Renovation Work)	96441846
4	Academic Block (Balance Work)	327630613
	GRAND TOTAL:	Rs714,085,722.00

Scope of Work

CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI AS PER ANNEXURE TITLTLED BID SPECIFIC CONTAINING DETAILED SCOPE OF WORKS.



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]		





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 Contractor and 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: JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA)), Senior Joint Director JINNAH INTERNATIONAL AIRPORT , Airport Sub-Division, Malir (District), Karachi (Division), Sindh (Province).

The Supplier is:

The title of the subject procurement is: CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI

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:

JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA)), Senior Joint Director JINNAH INTERNATIONAL AIRPORT , Airport Sub-Division, Malir (District), Karachi (Division), Sindh (Province).

+92-333-260-3607

jhatial@paa.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:

JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA)), Senior Joint Director
JINNAH INTERNATIONAL AIRPORT , Airport Sub-Division, Malir (District), Karachi (Division), Sindh
(Province).

+92-333-260-3607

jhatial@paa.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 **0.05% to 10.00%** 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 **5.00%** of the contract price in acceptable form of **Pay Order, Bank Guarantee**

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

Final inspection shall be carried out by divisional engineer or representative.

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.: **P72430**

To: **JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA)), Senior Joint Director JINNAH INTERNATIONAL AIRPORT , Airport Sub-Division, Malir (District), Karachi (Division), Sindh (Province).**

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 **JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA)), Senior Joint Director JINNAH INTERNATIONAL AIRPORT , Airport Sub-Division, Malir (District), Karachi (Division), Sindh (Province).**

(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., **CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI (P72430)** 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.

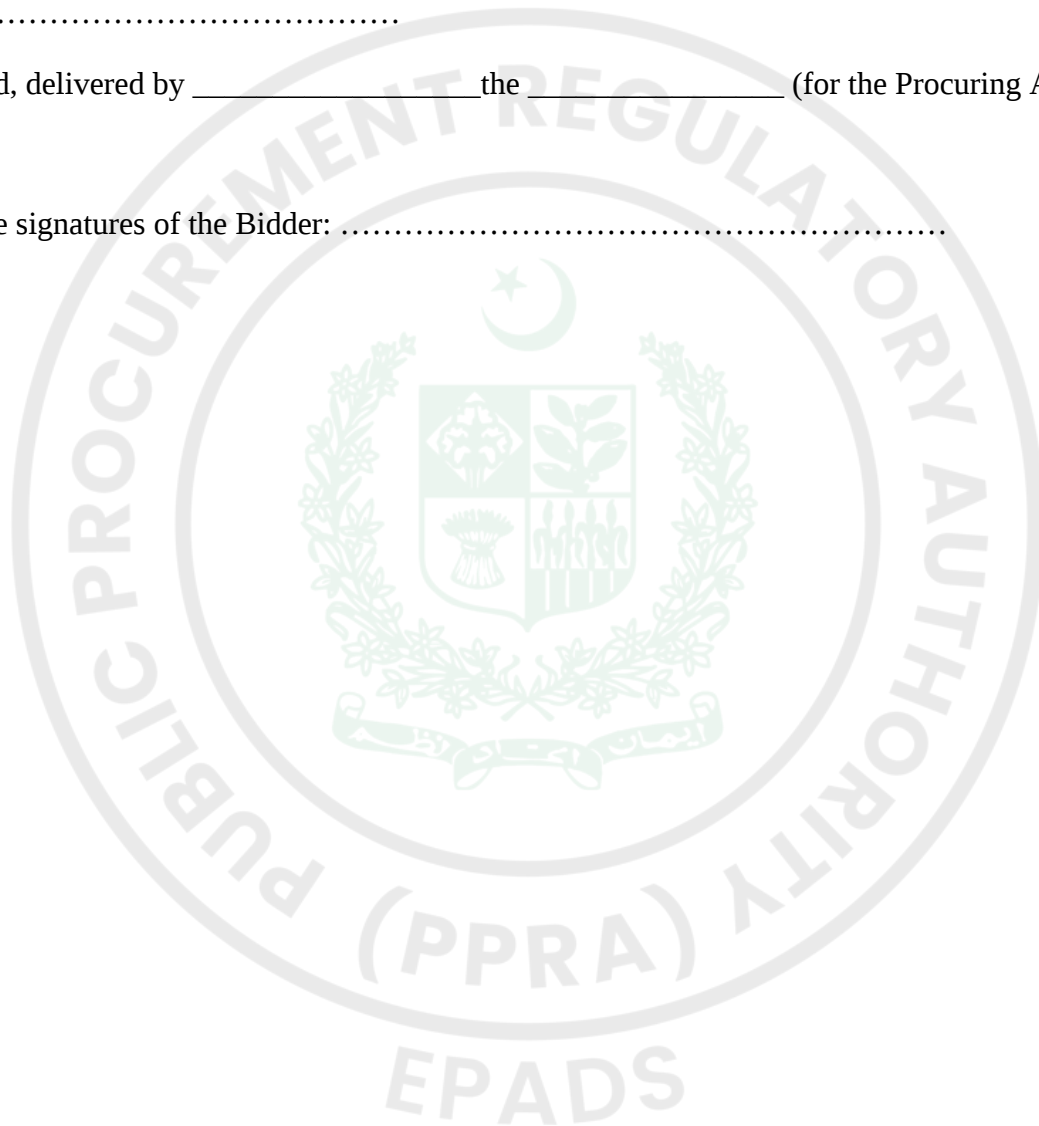
Signed, sealed, delivered by _____ the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

.....

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

Witness to the signatures of the Bidder:





Integrity Pact

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: 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 times the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.



Performance Guarantee Form

Performance Guarantee Form

To: **JINNAH INTERNATIONAL AIRPORT (Pakistan Airports Authority (PAA)), Senior Joint Director JINNAH INTERNATIONAL AIRPORT , Airport Sub-Division, Malir (District), Karachi (Division), Sindh (Province).**

WHEREAS *[name of Bidder]* (hereinafter called “the Bidder”) has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for provision of Goods (hereinafter called “the Contract”).

AND WHEREAS it has been stipulated by you in the said Contract that the Bidder shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Bidder’s performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Bidders guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Bidder, 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 Bidder 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]





Annexure

Bid Specifics

Please download and read carefully the attach document titled "Bid Specifics" contained in technical submission and upload a signed and stamped copy of the whole document along with any additional data required therein.

Note: Please donot fill in rates in this document as this is part of technical submission. BOQ contained in this document is for only study purpose.

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Bid Specifics** (page number: 75)

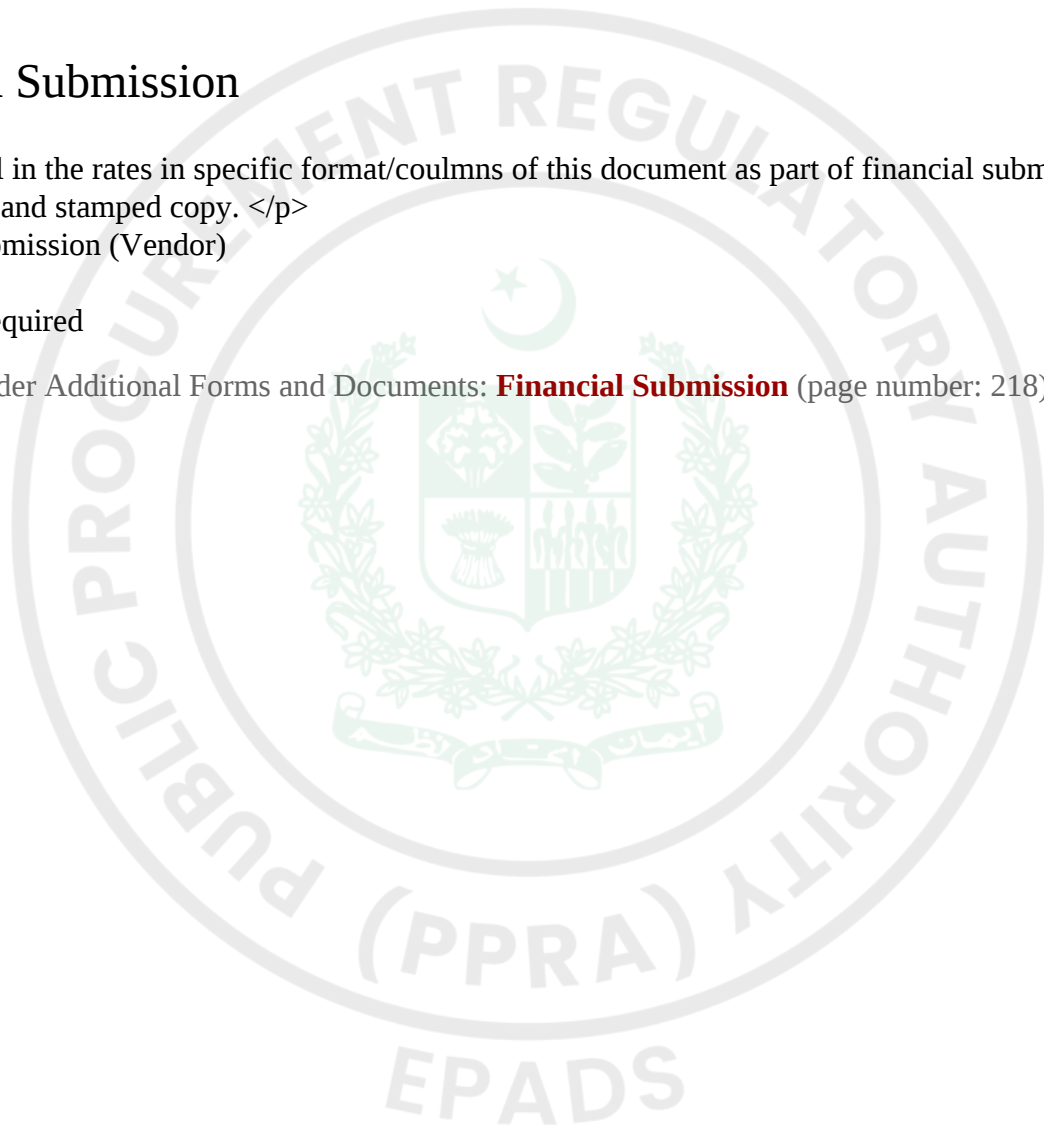
Financial Submission

Please fill in the rates in specific format/coulmns of this document as part of financial submission and attach signed and stamped copy.

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Financial Submission** (page number: 218)





Procurement Forms







Additional Forms and Documents



پاکستان ایئرپورٹس اتھارٹی

JINNAH INTERNATIONAL AIRPORT

BIDDING DOCUMENTS FOR

CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI

This Bidding Document contains

INSTRUCTIONS TO BIDDERS
TERMS AND CONDITIONS
BILL OF QUANTITIES (BOQ)
GENERAL CONDITIONS
SPECIAL CONDITIONS
DRAWINGS/LINE PLAN
STANDARD FORMS
HSE MANUAL

BIDDING DOCUMENTS

NAME OF WORK: CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND
NAAS, KARACHI

3rd Edition

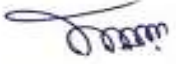
A. Memorandum of Running Bills

S. No	Amount	Dated Initial of Personnel Account

B. Memorandum of Extension of Time

S. No.	From	To	Dated Initial of Personnel Account

1. Issued to :	
	with specification and sheets of drawings
2. Date and time of Receipt of Tenders	As notified on PPRA website and E-PADS
3. Date and time of opening of Tenders	As notified on PPRA website and E-PADS
4. Place of submission of Tenders	E-PADS (Online)


Divisional Engineer ES Civil
PAA JIAP Karachi

INSTRUCITIONS FOR BIDDERS

1. All bidders should be quoting rates both in words and figures, also submit Rs. 25,000,000/- earnest money in separate envelope.
- 2) All bidders are requested to submit the bid documents complete with drawings, specifications etc. containing the signature and stamp of the bidder's representative on each and every page of the documents online through E-PADS.
- 3) The validity of quoted rates for acceptance by the competent authority will be 120 (One Hundred twenty) days from the date of opening the tender.
- 4) Those who are unable to bid should return complete bid documents on the date of opening of the tender.
- 5) Bidders are advised in their own interest to review the contents of Bidding Documents thoroughly and perform due diligence at their own cost prior to participating in the bidding process.
- 6) Original instrument of Bid Security must be submitted at the time of Bid Opening in sealed envelope well before the closing date and time mentioned in Invitation to Bids and its scanned copy must be attached with the electronic bid to be submitted online on EPADS.
- 7) All Bidders are requested to submit the bidding documents in Technical Bid, without making any changes to the original text, complete with drawings, specifications etc. containing the signatures of the Bidder's representative on each and every page of the documents.
- 8) The Bidders are advised to submit physical (hard form) bid in original on the date and time mentioned in the invitation to bids to assist in evaluation, however that is not mandatory. In case of any discrepancies between the bid submitted physically and on EPADS, the latter shall prevail.

(ii)

DECLARATION

"IT IS HEREBY SOLEMNLY AFFIRMED AND DECLARED THAT WE/I HAVE RETIRED FROM PAA IN THE CAPACITY OF _____ BEFORE TWO YEARS AND THAT NO SERVING OR RETIRED EMPLOYEE WHO HAS NOT COMPLETED TWO YEARS AFTER RETIREMENT FROM PAA HAS BEEN EMPLOYED FOR THE CONTRACTING BUSINESS BEING TRANSACTED UNDER STYLE AND TITLE _____ IT IS HERBY FURTHER UNDERTAKEN AND GUARANTEED THAT NO SERVING OR RETIRED EMPLOYEE WHO HAS NOT COMPLETED TWO YEARS AFTER RETIREMENT FROM PAA SHALL BE PERMITTED TO HAVE ANY FINANCIAL INTEREST IN THE SAID CONTRACTING BUSINESS DURING THE CURRENCY OF THIS CONTRACT WITH PAA IT IS CLEARLY UNDERSTOOD AND AGREED THAT IN THE EVENT OF A BREACH OF THE ABOVE UNDERTAKING DURING THE CURRENCY OF THIS CONTRACT, THE SAID CONTRACT SHALL BE LIABLE TO IMMEDIATE CANCELLATION IN WHICH CASE THE SECURITY DEPOSITS AND ALL OTHER MONEYS DUE FROM PAA SHALL STAND FORFEITED AND BE ABSOLUTELY AT THE DISPOSAL OF THE PAKISTAN AIRPORTS AUTHORITY.

CONTRACTOR'S SIGNATURE

INVITATION TO BIDS

Date: _____

1. Pakistan Airports Authority invites bids from eligible Constructors licensed by the Pakistan Engineering Council in the appropriate category for the Works named on the cover page.
2. The bidding process shall be conducted in line with the single stage two envelope procedure prescribed under Public Procurement Rules 2004, e-Pak Procurement Regulations, 2023 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the PPRA (from time to time), and is open to all potential eligible bidders registered in the EPADS.
3. All bids must be accompanied by Bid Security in an acceptable form in the prescribed amount.
4. The electronic bids prepared in accordance with the instructions prescribed in the electronic bidding documents must be submitted through EPADS on or before the bid closing date and time. Electronic bids will be opened by using EPADS on the same day 30 minutes after bid closing time.
5. The bidders are required to attach and submit following documents electronically with Technical Bid. Non-submission of supporting documents or furnishing forged documents or concealment of facts or submission of false information may lead to disqualification of such bidder. Technical Evaluation Criteria attached below.

Sr. No.	Evaluation Criteria	Documents to be provided	Status (Compliant / Non-compliant)
1	Bid Security	Attach Bank draft / pay order / CDR of Rs. 25,000,000/- in a separate sealed envelope. Scanned copy must be uploaded online on EPADS.	
2	CNIC	Attach valid CNIC copy of the Firm's Owner / Authorized Representative.	
3	Legal Status of Firm	Certificate of Incorporation / Memorandum & Articles of Association (for Private Limited Co.), Partnership Deed (for Partnership Firm), or Affidavit for Sole Proprietorship on E-stamp paper worth at least Rs. 500/-.	
4	Joint venture (if applicable)	Joint Venture Agreement (if applicable). In case of a foreign firm/company, Joint Venture with a Pakistani firm and valid registration with SECP is mandatory.	
5	Blacklisted firms and Litigations	Affidavit on non-judicial stamp paper worth at least Rs. 500/- stating that the company has not been blacklisted by any Govt./Semi-Govt./Autonomous body. Details of accompanying pending litigations, if any, must be enclosed.	
6	Active tax payer status	Valid Income Tax Registration Certificate and proof of active status on the FBR Active Tax Payer List (ATL).	
7	PEC registration in relevant category i.e. C-2 or above	Valid PEC Registration Certificate in Category C-2 or above with specialized codes CE-09, CE-10, CE-11, BC-01, BC-02, BC-03, EE-04, EE-05, EE-06	
8	Provincial Professional Tax Certificate	Valid Sindh Professional Tax Certificate issued by the provincial Revenue Authority.	



For P.A.A.

For Contractor

9	Bidding documents	Each page duly signed and stamped by Authorized representative of the bidder as given below, uploaded on EPADS: A) Contract Documents B) Memorandum for Running Bill & Extension of Time C) General Instructions for Bidders D) Declaration E) Invitation to Bids F) Instructions to Bidders G) Memorandum H) Letter of offer for execution of Works I) Form of Agreement J) Bill of Quantities K) Technical Specifications L) Special Conditions of Contract M) General Conditions of Contract N) HSE Manual O) Addendum (if Any)	
10	Authority Letter / Power of Attorney	In case the bidding documents are not signed directly by the owner/proprietor, a valid Power of Attorney in favor of the authorized signatory along with CNIC copies of both individuals must be uploaded.	
11	Works in Hand	Copy of Work Orders / Letters of Award (LOA) / Letters of Intent (LOI) for at least 03 Building works costing Rs. 700 (M) or above, currently in progress, awarded by Govt, semi-govt or autonomous bodies.	
12	Specific Works Experience	Must have successfully completed at least three (3) projects of building works within the last (5) years, each with a minimum cost of Rs. 700 Million	
13	Performance Certificates	Satisfactory completion certificates signed explicitly by the respective clients / procuring agencies for all referenced projects.	
14	ISO Certifications	Valid ISO 9001, ISO 14001 and ISO 45001 standards certifications.	
15	Average Annual Turnover	Minimum average annual construction turnover of Rs. 700 Million during the last three (3) financial years. Must be supported by audited financial statements conducted by a registered Chartered Accounting firm or respective banks.	
16	Engineering Staff (PEC Registered)	Must formally commit qualified technical personnel including: • 1 × Project Manager: B.Sc. Civil Engineering with minimum 12–15 years of experience. • 2 × Resident/Site Engineers: B.Sc. Civil Engineering with minimum 5–7 years of experience. • 1 × Electrical/Mechanical Engineer: B.Sc. Electrical/Mechanical with minimum 5 years of experience.	

For P.A.A.

For Contractor

PAKISTAN AIRPORTS AUTHORITY

CONTRACT FOR WORK

GENERAL RULES AND DIRECTIONS FOR THE GUIDANCE OF CONTRACTORS

1. The Notice inviting tender shall contain the name of work to be carried out as well as the date for submitting and opening tenders and the time allowed for carrying out the work; also the amount of earnest money to be deposited with the tender and the amount of the security deposit to be deposited by the successful tendered. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by Pakistan Airports Authority shall also be open for inspection by the Contractor at the office of the G.M / Project Manager / Senior Works Engineer PAA during office hours.
2. Where a tender is being submitted by a Firm, it must be signed separately by each partner thereof, or in the event of the absence of any Partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power-of-attorney to be produced with the tender and a Photostat of the Partnership Deed should accompany the tender.
3. Where a firm of Contractors is an incorporated company registered under the Companies Act, the Contractors shall furnish the following documents:-
 - a) Memorandum and Articles of Association together with a copy of certificate of incorporation.
 - b) In case the Contract is to be signed by one of the Directors of the Contractor's Company, a certified copy of the resolution of the Board of Directors or a Photo copy of the General power of Attorney executed by the Company authorizing such Directors to enter into and sign the Contract with PAA.
4. Receipts for payments made on account of a work, when executed by a firm shall be signed by all the partners, except where the Contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners or by some other person having authority to give actual receipt for the firm.
5. Tenders which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other condition of any sort, will be liable to rejection. No. single tender shall include more than one work, but Contractors who wish to tender for two or more works shall submit a separate tender for each work, Tenders shall have the name and number of the work to which they refer, written outside the envelope.
6. No alterations or additions shall be made by the Contractor in the schedule of quantities and rates must be filled in ink or typed out both in figures and words clearly and legibly in the columns provided in the schedule of Quantities. All corrections must be signed by the Contractors.
7.
 - i) G.M / Project Manager / Senior Civil Engineer, Pakistan Airports Authority or his duly authorized representative shall open tenders in the presence of intending Contractor who may be present at the time and will enter the amounts of all the tenders in a Comparative Statements in a suitable form.
 - ii) When tender is accepted, a receipt for the earnest money forwarded therewith shall thereupon be given to the Contractor. In the event of a tender being rejected the earnest money forwarded with such unaccepted tender shall thereupon be returned to the Contractor.
8. The receipt given by accountant or clerk for any money paid by the Contractor will not be considered as an acknowledgement of payment to the PAA and the Contractor shall be responsible for seeing that he procures a receipt signed by the Senior Works Engineer PAA or his authorized officer.
9. The memorandum of work tendered for and the schedule of materials to be supplied by the PAA and their issue rates, shall be filled and completed in the office Senior Works Engineer before the tender form is issued.
10. The tender shall also produce a certificate of registration from the Income Tax authorities and attach it with tender.
11. Tender shall not be reimbursed any cost of any kind whatsoever incurred by them in connection with preparation



For P.A.A.

For Contractor

and submission of their tenders.

12. The tendered rates or amounts shall be deemed to be inclusive of all federal, provincial (excluding provincial sales tax on services) and local government taxes, duties and cassatas applicable fourteen (14) days prior to the date of tender opening and no claim on this account shall be entertained by PAA.
13. The completed Tender shall be enclosed in a Sealed Envelope and addressed and delivered in person or sent by Registered post so that it reaches well in time before the opening date, as notified by the PAA. Tenders will be opened and read in public on the date and time for the opening. Tenders received after the time set for receipt shall be returned to Bidder un-opened. The sealed envelope shall have the following words written on top of it.

TENDER FOR: CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI

14. Pakistan Airports Authority reserves the rights to postpone the date or time of submission and opening of Tenders. Should the date of opening the Tenders be postponed. PAA shall give notice of such postponement.
15. Pakistan Airports Authority is not bound to award the Contract to the lowest or to any Bidder and reserves the right to reject any or all Tenders and to waive any formalities in the Tenders received such as deviations in the use and presentation of the specified Tender Documents and forms, if it appears to be in the interest of the PAA.
16. Tenders shall be accompanied by a Pay Order/Bank Draft of the amount given in the Memorandum as Earnest Money. All such Pay Orders/Banks Draft Shall be returned to un-successful bidders, after the work has been awarded.

17. Tender shall be accepted by the officer of PAA as per schedule of powers given in CPWD-'D' code. The acceptance of the Tender shall bind the Bidder to sign the Contract within the specified period failing which the Bidder shall forfeit his Earnest Money not as penalty, but as liquidated damages.

18. The Contractor shall furnish irrevocable Performance Guarantee only for works costing more than Rs.2.5 million and it should be valid till the completion of work from the Banks approved by PAA (As mentioned below) in the amount of five percent of the total amount of bid at the time of signing the agreement. The bond shall be executed on non-judicial stamp paper of appropriate value.

- | | | |
|---|-------------------------------|------------------------------------|
| 1. National Bank of Pakistan | 2. Sindh Bank Limited | 3. The Bank of Punjab |
| 4. Allied Bank Limited | 5. Askari Bank Limited | 6. Bank Al-Habib |
| 7. Faysal Bank Limited | 8. Habib Bank Limited | 9. Habib Metropolitan Bank Limited |
| 10. J.S. Bank Limited | 11. MCB Bank Limited | 12. Samba Bank Limited |
| 13. Soneri Bank Limited | 14. Standard Chartered Bank | 15. United Bank Limited |
| 16. Industrial and Commercial Bank of China Limited | 17. Al-Baraka Bank (Pakistan) | 18. Bank Islami Pakistan Ltd. of |
| 19. Dubai Islamic Bank (Pakistan) Ltd | 20. Meezan Bank Limited Ltd | |

19. The Contractor shall be given a Mobilization Advance upto 10% of the tendered cost by PAA for works costing more than Rs.5 million on production of an irrevocable guarantee of an equivalent amount from Banks approved by PAA as mentioned at clause-18. The same will be recovered at the rate of 10% of gross amount of the running bills of the Contractors.

20. Prior to engaging in the tendering process, the bidder should at their own cost, read and acquaint themselves with the PAA's Procedure for Blacklisting of Contractors and Suppliers available on PAA website (<https://paawebadmin.paa.gov.pk/media/fdpcknji/caao-003-escw.pdf>).

Add: HSE Manual



For P.A.A.

For Contractor

Add: BOQ

Add: Special Terms & Condition

Add: Layout Plan / Drawings



For P.A.A.

For Contractor

VII

MEMORANDUM

- a) General Description of Works : **CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI**
- b) Tender shall enclosed with tender
Bank Draft / Pay Order from Schedule Bank. **Rs. 25,000,000/-**
- c) Security deposit (including Earnest money) **5% (Five per cent)**
- d) Deduction of Income Tax **As per Income tax ordinance 2014 updated time to time.**
- e) Time allowed for the work **02 Years / 24 Months (from date of written Order to commence)**

S.No.	Item of work	Quantity	Unit	Rate tendered		Amount
				In figure	In words	

As per schedule attached.

For P.A.A.

For Contractor

Pakistan Airports Authority

General Abstract of Cost

Bill of Quantities

CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI.

S.No.	Description	Amount
01	32 x JS Apartment (02 Blocks)	
02	Barrack for 128 Personnel	
03	Female trainee Hostel (Renovation Work)	
04	Academic Block (Balance Work)	
	Total Amount	



For P.A.A.

For Contractor

Pakistan Airports Authority
ES DIVISION CIVIL-I, JIAP

Bill of Quantities

NAME OF WORK: CONSTRUCTION OF 32 x JS APARTMENT AT JIAP KARACHI

S.No.	Description	Amount
S.H1-A	Building Work	
S.H: 1-B	Water Supply & Sanitations	
S.H: 1-C	Internal Electrification	
	Total Amount	


For P.A.A.

For Contractor

PAKISTAN AIRPORTS AUTHORITY

CONSTRUCTION OF 32 x JS APARTMENT AT JIAP KARACHI

Bill of Quantities

S. No.	Description	Quantity	Rate		Unit	Amount
			in Figure	in Words		
SH:- 1-A Building Work						
1	Excavation for raft foundations, underground tanks and septic tanks (rectangular or square) in all kinds of soil and back filling the excavated material all-round the trenches including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead up to one chain and lift upto 5 feet	34844 Cft			100 Cft	
2	Cartage of sand, bajri, lime, surkhi, murum, manure, earth & building rubbish including loading, unloading and stacking etc at site dispose-off (by mechanical means) beyond 2 miles (3.2 Km) lead	34844 Cft			100 Cft	
3	Providing & carrying out termite proofing in foundation. Under floor and wood work surface with a solution using of confront TC with water and spraying the solution of the area to be treated as completed as per direction of Engineer incharge	8711 Sft			P.Sft.	
4	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 1 inch and down gauge in foundation including leveling, compacting and curing etc. Complete.	2290 Cft			100 Cft	
5	P/L RCC using crushed graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in raft or strip foundation with columns and pillars, of any shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth	9408 Cft			100 Cft	
6	--do-- but in columns of square shape of regular section in foundation basement and plinth	145 Cft			100 Cft	



For P.A.A.

For Contractor

7	--do-- but in plinth beams of required shape and design in foundation basement and plinth	720 Cft			100 Cft	
8	--do-- but in columns of square shape of regular section in the ground floor	724 Cft			100 Cft	
9	--do-- but in columns of square shape of regular section in the 1st floor	724 Cft			100 Cft	
10	--do-- but in columns of square shape of regular section in the 2nd floor	724 Cft			100 Cft	
11	--do-- but in columns of square shape of regular section in the 3rd floor	724 Cft			100 Cft	
12	--do-- but in columns of square shape of regular section in the 4th floor	81 Cft			100 Cft	
13	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in basement and ground floor	2150 Cft			100 Cft	
14	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 1st floor	2150 Cft			100 Cft	
15	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 2nd floor	2150 Cft			100 Cft	
16	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 3rd floor	2150 Cft			100 Cft	
17	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 4th floor	324 Cft			100 Cft	
18	--do-- but in ordinary slab 5 inches to 6 inches thick in basement plinth and ground floor	2638 Cft			100 Cft	
19	--do-- but in ordinary slab 5 inches to 6 inches thick in the 1st floor	2638 Cft			100 Cft	
20	--do-- but in ordinary slab 5 inches to 6 inches thick in the 2nd floor	2638 Cft			100 Cft	

For P.A.A.

For Contractor

21	--do-- but in ordinary slab 5 inches to 6 inches thick in the 3rd floor	2638 Cft			100 Cft	
22	--do-- but in ordinary slab 5 inches to 6 inches thick in the 4th floor	323 Cft			100 Cft	
23	--do-- but in straight stair and landings in basement plinth and ground floor	150 Cft			100 Cft	
24	--do-- but in straight stair and landings in the 1st floor	150 Cft			100 Cft	
25	--do-- but in straight stair and landings in the 2nd floor	150 Cft			100 Cft	
26	--do-- but in straight stair and landings in the 3rd floor	150 Cft			100 Cft	
27	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in basement plinth and ground floor	2638 Cft			100 Cft	
28	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in the 1st floor	77 Cft			100 Cft	
29	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in the 2nd floor	77 Cft			100 Cft	
30	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in the 3rd floor	77 Cft			100 Cft	
31	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in the 4th floor	88 Cft			100 Cft	
32	Providing and laying cold worked twisted ribbed steel reinforcement bars with minimum yield stress of 60,000 psi with and including the cost of straightening, cutting, bending, binding, wastage, complete in all kinds of RCC work	36379 Kg			P-Kg	
33	--do-- but Reinforcement bars Gde-60 in 1st floor	13022 Kg			P-Kg	
34	--do-- but Reinforcement bars Gde-60 in 2nd floor	13022 Kg			P-Kg	

EPADS



For P.A.A.

For Contractor

35	--do-- but Reinforcement bars Gde-60 in 3rd floor	13022 Kg			P-Kg	
36	--do-- but Reinforcement bars Gde-60 in 4th floor	1845 Kg			P-Kg	
37	P/L 1:2:4 C.C. machine made solid block masonry more than 6 inches thick using crush graded boulders 3/4 inch and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete; foundation and basement masonry upto 5 feet depth and plinth upto 4 feet height from ground level	507 Cft			100 Cft	
38	--do-- but CC Block masonry in ground floor structure	4058 Cft			100 Cft	
39	--do-- but CC Block masonry in the 1st floor	4058 Cft			100 Cft	
40	--do-- but CC Block masonry in the 2nd floor	4058 Cft			100 Cft	
41	--do-- but CC Block masonry in the 3rd floor	4058 Cft			100 Cft	
42	--do-- but CC Block masonry in the 4th floor	1032 Cft			100 Cft	
43	Providing and laying gola 3" x 3" size wrth lime surkhi concrete 1:2:4 (1 lime, 2 surkhi and 4 brick ballast) with 1" (25 mm) and down gauge brick ballast at the junction of roof slab and walls and finished with lime surkhi plaster 1:2 including curing etc., complete	464 Rft			100 Rft	
44	Providing & laying of Aluminium foil 4mm thick Ezogrip of approved quality i/c the cost of clearing roof , cartage, wastage etc completed as per direction of Engineer incharge in any height in any floor	6279 Sft			P-Sft	
45	1/4" thick cement plaster 1:3 on soffits of ceiling, cantilever slabs, sides and soffits of beams etc., in basement, mezzanine and ground floor including making edges, corners and curing etc., complete	6144 Sft			100 Sft.	
46	---- do --- but ceiling plaster on 1st Floor	6144 Sft			100 Sft.	
47	---- do --- but ceiling plaster on 2nd Floor	6144 Sft			100 Sft.	

For P.A.A.

For Contractor

48	---- do --- but ceiling plaster on 3rd Floor	6144 Sft			100 Sft.	
49	---- do --- but ceiling plaster on 4th Floor	314 Sft			100 Sft.	
50	1/2" thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, and curing etc., complete.	26959 Sft			100 Sft.	
51	---- do --- but Wall Plaster on 1st Floor	26959 Sft			100 Sft.	
52	---- do --- but Wall Plaster on 2nd Floor	26959 Sft			100 Sft.	
53	---- do --- but Wall Plaster on 3rd Floor	26959 Sft			100 Sft.	
54	---- do --- but Wall Plaster on 4th Floor	5840 Sft			100 Sft.	
55	Providing and fixing M.S. molded steel door frames of 5.73" x 2-1/2" (146 mm x 63 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S. 1245 having a double rebate size 1-1/2" x 1/2" (38 mm x 12 mm) provision of 3 Nos. M.S. plate, section 1-1/2" x 1/4" (38 mm x 6 mm) (2 Nos. 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:1:2 etc. in any floor at any height complete as directed by the Engineer-in-Charge	3808 Rft			P.Rft	
56	Supplying stacking and filling sand of approved quality from outside sources in foundation, trenches, plinth or under floor, etc. including dressing, watering and consolidation by ramming in layers not exceeding 9 inches in depth to full compaction and lift upto 5 feet.	6222 Cft			100 Cft.	
57	Providing and laying 1:4:8 cement concrete bed under floors using graded stone ballast 2 inches and down gauge with leveling and ramming, watering and curing etc. complete.	3473 Cft			100 Cft	

For P.A.A.

For Contractor

58	Providing and laying in situ 1:2:4 (1 cement 2 sand and 4 coarse aggregate) cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet depth (1.52 m) and plinth up to 4 feet (1.2 m) height from ground level	366 Cft			100 Cft.	
59	Providing and laying light colour, glazed/ non-skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	45806 Sft			100 Sft	
60	P/F 12mm thick tempered glass, Swing door Pak made as per approved manufacturers (fixing through their approved fabricators) D-Lock silicon, moving machines all accessories, cutting holes etc and making good damages etc complete as required in any floor as per direction of Engineer incharge.	168 Sft			P-Sft	
61	P/F 12mm tempered glass fixed partition as per approved manufacturers (fixing through their approved fabricators) i/c 3M safety film 175 micron, aluminum section D-48 (100mm X 38mm and 233) thick i/c the aluminum fittings and S.S pipe 1.5" X 3" (18 Guage) fixed on top with all accessories, cutting holes etc and making good damages etc complete as required in any floor as per direction of Engineer incharge	168 Sft			P-Sft	
62	Providing and fixing fully glazed Bronze anodized or powder coated aluminum Sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm x 30mm and 2mm thick including the cost of aluminum netting ,fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge, but excluding the cost of glass pans	2112 Sft			P-Sft	
63	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminum doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height	2112 Sft			P-Sft	
64	Providing and fixing tinted or frosted glass paper with and including the cost of washing the glass with shampoo and finishing complete in all respect as directed in any floor	4896 Sft			P-Sft	

For P.A.A.

For Contractor

65	Providing and fixing Window roll up blinds sunscreen, dark out, or translucent fabric any colour/shade best quality (imported) with manual roll up arrangements complete in all respect with all other required accessories and hardware from the approved suppliers and manufacturers as per direction of Engineer incharge	4224 Sft			P-Sft	
66	Providing and fixing 1-1/2 inches thick solid core deodar wood flushed veneered door shutters, with and including the cost of commercial plywood facing 3 mm. thick (3 ply) on both faces, fixed over best quality deodar wood frame 2 inches wide all-round 6 inches wide lock rail and 2nd class deodar wood solid core, i/c., 1/4 inch thick best quality deodar wood lipping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fittings but excluding the cost of handles and locking arrangement.	4704 Sft			P-Sft	
67	Providing and fixing iron grills with required section of flat iron as per approved design including welding all sides of the section at the junction, and fixing with sunk iron screws, painting two coats of red oxide paint etc. complete as required in any floor in masonry or concrete work.	9378 Kg			P-Kg	
68	Providing & Fixing 2" dia stainless steel pipe (18 gauge) railing along with 4 Nos 3/4" dia parallel pipe having S/S pipe vertical post 2" dia at 3 ft C/C average spacing and 4' dia vertical post at start turning and end point including cost of labour, welding charges fitting & fixing .completed as per direction of Engineer incharge	708 Rft			P.Rft	
69	P/L 3/4 inch Granite Stone Pakistani origin Tiles more than 7 Sq. ft upto 16 Sq.ft inch size fine dressed on the surface, without winding in any floor over 1 inch cement mortar 1:2 setting the marble tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar	1,696 Sft			100 Sft	
70	Providing and fixing kitchen wall cabinet making of shutter board box & 3/4 inch thick high gloss laminated lasani shutter, PVC beading PVC sheet backing of approved design etc, fixed with rawal plugs screws i/c cost of glue,nail, hinges, handles etc as per drawing, completed in all respect	520 Sft			P.Sft	
71	Providing and fixing kitchen wall cabinet making of shutter board box & 3/4 inch thick high gloss laminated lasani shutter, PVC beading PVC beading, deodar wooden fram 2.5 X 1.25 inch size making tray drawer of approved design etc, fixed with rawal plugs screws including cost of glue, nail, hinges handles etc as per drawings, complete in all respect	624 Sft			P.Sft	

For P.A.A.

For Contractor

72	Providing and fixing approved quality stainless steel sink 33" x 18" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls ½" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	32 Nos			P-Each	
73	Providing & Fixing ward robe 24" deep consisting 19mm thick laminated sheet on bottom, top -sides partition, shelves & Shutters etc and 4mm thick pressed on back side, 2-1/2" X 1-1/4" best quality deodar wood frame and all open edge filled 3/4" molding PVC gola complete i/c the cost of glue iron nails screws, heavy type piano hinges 1/2" handle, catchers locks etc, complete in all respect as per direction of Engineer incharge	2,464 Sft			P-Sft	
74	Providing and fixing with C.P. brass screws main door handle type yale lock (Italy make) of approved design, cutting wood etc., to required size, with two operating keys, as per direction of the engineer-in-Charge	226 Nos			P-Each	
75	Providing and fixing 4" (100 mm) dia polyvinyl chloride rain water (PVC) down pipe with mild steel clamps, bolts and nuts fixed in cement concrete 1:2:4 etc. complete	400 Rft			P-Rft	
76	Providing and fixing 4" (100 mm) dia polyvinyl chloride (PVC) bend of any degree for rain water down pipe with clamps, bolts and nuts in cement concrete 1:2:4 etc. complete	16 Nos			P-Each	
77	Painting with (ICI) Dulux plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface at any height in any floor.	117451 Sft			100 Sft.	
78	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor	4954 Sft			100 Sft.	
79	-- do -- but height above 15 ft and upto 20ft	1955 Sft			100 Sft.	
80	-- do -- but height above 20 ft and upto 25 ft	1955 Sft			100 Sft.	
81	-- do -- but height above 25 ft and upto 30 ft	1955 Sft			100 Sft.	

For P.A.A.

For Contractor

82	-- do -- but height above 30 ft and upto 35 ft	1955 Sft			100 Sft.	
83	-- do -- but height above 35 ft and upto 40 ft	1955 Sft			100 Sft.	
84	-- do -- but height above 40 ft and upto 45 ft	1955 Sft			100 Sft.	
85	Painting wood work with synthetic enamel paint of approved make paint and shade two coats over and including the cost of one priming coat complete at any height in any floor.	10584Sft			100Sft	
					Total	

	SH:- 1-B Water Supply & Sanitation Work					
1	Making connection with the existing G.I. pipe upto 2 inches dia including cutting the pipe and providing and fixing necessary fittings	1 Nos			Each	
2	P/F 1-1/2" Ø uPVC pipe "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm ²)	1,840 Rft			P-Rft	
3	P/F 1" Ø uPVC Pipe "E" class with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm ²)	880 Rft			P-Rft	
4	--do-- but 3/4" Ø uPVC E Class pipe	640 Rft			P-Rft	
5	P/F of 1-1/2 inch dia ball valve (with PVC Ball) made to B.S.S. 1212.	3 Nos			Each	
6	--do-- but 1" Ø Ball Valve	16 Nos			Each	
7	Providing and fixing Pakistani best quality European style white glazed earthenware W.,C pan complete with and including the cost of plastic seat and buffers, 13.6 litres flushing cistern with internal fittings complete, P.V.C flushing pipe with fittings and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	32 Nos			Each	

For P.A.A.

For Contractor

8	Providing and fixing squatting type W.C.Pan in white vitreous china with integral treads (Pakistani) Orissa pattern and uPVC. trap 100mm dia. Complete with and including the cost of 13.6 litres best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4	32 Nos			Each	
9	P/F of 22 inches x 16 inches lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of glazed earthenware half pedestal, Brass oxidized bolts kit built into walls 1/2 inches dia. Chrome plated mixer, 1-1/4 inches rubber plug and chrome plated brass chain 1-1/4 inches dia brass waste of approved pattern 1-1/4 inches dia chromium plated battal trap with unions and making requisite, number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	64 No			Each	
10	Providing & fixing chromium plated Muslim bib-cock with Muslim Shower of approved quality.	64 Nos			Each	
11	Providing and fixing 1/2 inches dia. (15 mm) CP Bib cocks.	32 Nos			Each	
12	P/F of 1/2 inch dia CP stop cocks/ Tee Stop Cock (Master / Faisal etc.) as directed	96 Nos			Each	
13	Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws	64 Nos			Each	
14	P/F bath room accessories of set of 6 pieces consist of one shelf, one towel rod with bracket, one towel ring, one soap dish, one tooth Brush holder with glass, one tissue paper holder one double hook etc complete of approved quality as per direction of Engineer in-charge.	64 Nos			Each	
15	Providing and fixing uPVC Multi floor trape of sizes with gratings including cutting and making the requisite number of holes in walls plinth and floors and making good in 1:2:4, C.C.	96 Nos			Each	
16	P/F 4" dia (u.P.V.C) "E" class pipe with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm2).	1,152 Rft			P-Rft	

For P.A.A.

For Contractor

17	Providing and fixing 6" x 6" (150 mm x 150 mm) with 4 inches (100 mm) outlet cement concrete C.I. gully trap wt: 42 lbs. (19 kg.) complete with 4 inches thick (100 mm) 1:2:4 cement concrete for bed and kerb, 1/2 inch (13 mm) thick cement plaster (1:3) to the kerb, C.I. grating 6 inches x 6 inches (150 mm x 150 mm) and C.I. cover and frame 12 inches x 12 inches (305 mm x 305 mm) (inside) etc., complete.	8 Nos			Each	
18	Providing manhole type 'A' size 2 feet x 1-1/2 feet) (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches dia pipes up to 3 feet-11 inches depth with cast iron cover and frame 16 inches dia, inside (weight=1 Cwt.1 Qtr.) or 63.5 kg. fixed in 4 inches thick RCC 1:2:4 slab, 8 inches thick c.c. 1:3:6 block masonry walls set in 1:3 c.m; 6 inches thick 1:3:6 c.c. in foundation 1:2:4 c.c. in benching, 1/2 inches thick cement plaster in 1:3 C.M. to all inside wall surface, channels and benching etc. and to top including making requisite number of main and branch channels but excluding the cost of excavation back filling and disposal of excavated stuff, manhole cover and frame.	8 Nos			Each	
19	Add for extra depth beyond 2 feet and up to 3 feet-11 inches (610 mm and up to 1194 mm) for 'A' type manholes (for depth lesser than 2 feet or 610 mm deduct at the same rate)..	96 Inch			P-Inch	
20	Providing 12" Ø RCC pipes and collars of class 'A' and fixing in trench including cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) and testing with water to a head of 4 feet (1.22 m) above the top of the highest pipe including cartage within 10 miles	550 Rft			P-Rft	
21	Making connection with the existing manhole including the cost of cutting holes in walls, making them good in cement concrete 1:2:4 and .making the required channel etc., complete	1 Nos			Each	
22	Providing & laying R.C.C 1:2:4 slab cover 3" thick average (precast complete with M.S flat iron, M.S bars embedded in concrete) of any shape including the cost of reinforcement and welding etc. as per direction of Engineer Incharge.	8 Cft			P-Cft	
					Total	
SH:- 1-C Electric Work						
1	Providing & fixing basic batten, surface type, fitting complete with LED Tube Light 1 x 16 watts, T8, 4 feet Philips make as Philips Cat. (TMS-015/136)	280 Nos			Each	


For P.A.A.

For Contractor

2	Providing and installation 140cm (56") ceiling fan with blades, canopy, stranded length of down rod including connection with 14.0076 flexible wire complete as reqd (Without regulator)	96 Nos			Each	
3	Providing & installing 45 Cm (18") sweep wall bracket fan, plastic body, complete with blades, fitted on wall or column with GI clip including connection with 14.0076" flexible wire complete as required.	64 Nos			Each	
4	Providing & installing 25 Cm (10") sweep, Double Action, Plastic body Exhaust fan complete with blades, motor and pulling cord switch etc fixed in existing hole including connection with 14.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	96 Nos			Each.	
5	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(E15 Clipsal make)	424 Nos			Each.	
6	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	128 Nos			Each.	
7	Wiring for light, fan or call bell point with 1.5mm ² PVC insulated wire in (20mm) 3/4" dia PVC conduit recessed in the wall or column including 1mm ² single core, PVC insulated wire as ECC as required	760 Pts			P.Pt	
8	Wiring for sub-main with 2 core, 2.5mm ² PVC insulated cable in 20mm (3/4") PVC conduit recessed in the roof, wall & column including 1.5 mm ² single core, PVC insulated wire as ECC as required.	18600 Rft			P.Rft	
9	Wiring for sub-main with 2 core, 6mm ² PVC insulated cable in 25mm (1") PVC conduit recessed in the roof, wall & column including 2.5 mm ² single core, PVC insulated wire as ECC as required.	5320 Rft			P.Rft	
10	Providing & fixing 10 Amps 3 Gang holes sheet (switch - 02 Nos-Socket 01) fixed on wooden board, recessed in wall or column including connection as required.	32 Nos			Each	
11	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 05 Nos, Socket- 01 Nos) fixed on wooden board, recessed in wall or column including connection as required.	40 Nos			Each	
12	Providing & fixing 10 Amps 4 Gang holes sheet (switch - 03 Nos, Socket- 01 Nos) fixed on wooden board, recessed in wall or column including connection as required.	96 Nos			Each	
13	Providing & fixing 10 Amps 8 Gang holes sheet (switch - 06 Nos, Socket- 01 Nos-01 Fan Dimmer) fixed on wooden board, recessed in wall or column including connection as required.	96 Nos			Each	

For P.A.A.

For Contractor

14	Supply and Installation of 14 / 14.5 watt LED Bulb with holder complete in all respect as required.	192 Nos			Each	
15	Providing & fixing 6 Amps plastic ceiling rose on PVC round block / round cover fitted on surface including connection as required.	536 Nos			Each	
16	Providing, installation, Testing & Commissioning of Flood lights, 150 Watts, (Ip66) including driver, having cool white color (6500K), 90-110 lm/watt efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by Engineer incharge	16 Nos			Each	
17	Providing and fixing Earthing set with 2"x2"x1/8" copper plate buried in the existing pit (with salt and charcoal, or Earthing chemical Powder) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required.	3 Jobs			P.Job	
18	Wiring for sub-main with 2 core, 10mm ² PVC insulated copper cable wire in 25mm (1") PVC conduit recessed in the roof, wall & column including 6 mm ² single core, PVC insulated copper wire as ECC as required.	2000 Rft			P.Rft	
19	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 42"x24"x8"(width 42", height 24", depth 8"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 125 Amps, TP, MCCB, Icu 25kA, Ics 13kA 16 Nos – 63 Amps, DP, MCB, Icu 10kA 04 Nos – 10 Amps, DP, MCB, Icu 10kA 01 Nos – 20 A TP MCCB 2.5 kA 01 Set – 250 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	2 Job			P.Job	
20	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 18" x 14" x 6"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 1 Nos – 63 Amps, DP, MCB, Icu 10kA 16 Nos – 16A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)	32 Job			P.Job	
21	Providing & fixing compact/cubical 16 SWG MS, concealed type DB duly painted size 12"x18"x6"(width 12", height 18", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 20 Amps, TP, MCCB, Icu 5kA 02 Nos. – 10 Amps, DP, MCCB 01 No. – Photoelectric EE switch, 3 Amp	2 Job			P.Job	

For P.A.A.

For Contractor

	01 No. – Magnetic Contactor 48 Amp, 3P+2a2b					
22	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 42"x24"x8"(width 42", height 24", depth 8"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 06 Nos – Digital single phase energy meter 10-40 Amps 01 Set – Phase indication lamps (R.Y.B)	2 Job			P.Job	
23	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 6"x6"x6"(width 6", height 6", depth 6"), proper locking arrangement comprising on followings i/c making connection & testing on load etc, complete as required. 01 Nos- 16 A SP MCB 01 Set – Phase indication lamps (R.Y.B)	8 Job			P.Job	
					Total	

For P.A.A.

For Contractor

Pakistan Airports Authority
ES DIVISION CIVIL-I, JIAP

Bill of Quantities

NAME OF WORK: CONSTRUCTION OF BARRACK FOR 128 PERSONNEL AT JIAP KARACHI

S.No.	Description	Amount
S.H: 2-A	Building Work	
S.H: 2-B	Water Supply & Sanitations	
S.H: 2-C	Internal Electrification	
	Total Amount	


For P.A.A.

For Contractor

PAKISTAN AIRPORTS AUTHORITY

CONSTRUCTION OF BARRACK FOR 128 PERSONNEL AT JIAP KARACHI

Bill of Quantities

S. No.	Description	Quantity	Rate		Unit	Amount
			in Figure	in Words		
	SH:- 2-A Building Work					
1	Excavation for raft foundations, underground tanks and septic tanks (rectangular or square) in all kinds of soil and back filling the excavated material all-round the trenches including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead up to one chain and lift upto 5 feet	28291 Cft			100 Cft	
2	Cartage of sand, bajri, lime, surkhi, murum, manure, earth & building rubbish including loading, unloading and stacking etc at site dispose off (by mechanical means) beyond 2 miles (3.2 Km) lead.	6156 Cft			100 Cft	
3	Providing & carrying out termite proofing in foundation. Under floors and wood work surface with a solution using of confront TC with water and spraying the solution of the area to be treated as completed as per direction of Engineer incharge	7073 Sft			P.Sft.	
4	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 1 inch and down gauge in foundation including levelling, compacting and curing etc. complete.	3537 Cft			100 Cft	
5	Providing and Laying Reinforced Cement Concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in raft or strip foundation with columns and pillars, of any shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth	12378 Cft			100 Cft	
6	--do-- but in columns of square shape of regular section in foundation basement and plinth	270 Cft			100 Cft	

EPADS



For P.A.A.

For Contractor

7	--do-- but in plinth beams of required shape and design in foundation basement and plinth	1208 Cft			100 Cft	
8	--do-- but in columns of square shape of regular section in the ground floor	900 Cft			100 Cft	
9	--do-- but in columns of square shape of regular section in the 1st floor	900 Cft			100 Cft	
10	--do-- but in columns of square shape of regular section in the 2nd floor	120 Cft			100 Cft	
11	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in basement and ground floor	1339 Cft			100 Cft	
12	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 1st floor	1339 Cft			100 Cft	
13	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 2nd floor	60 Cft			100 Cft	
14	--do-- but in ordinary slab 5 inches to 6 inches thick in basement plinth and ground floor	3375 Cft			100 Cft	
15	--do-- but in ordinary slab 5 inches to 6 inches thick in the 1st floor	3375 Cft			100 Cft	
16	--do-- but in ordinary slab 5 inches to 6 inches thick in the 2nd floor	298 Cft			100 Cft	
17	--do-- but in straight stair and landings in basement plinth and ground floor	128 Cft			100 Cft	
18	--do-- but in straight stair and landings in the 1st floor	128 Cft			100 Cft	
19	Providing and laying cold worked twisted ribbed steel reinforcement bars with minimum yield stress of 60,000 psi with and including the cost of straightening, cutting, bending, binding, wastage, complete in all kinds of RCC work	62244 Kg			Kg	
20	--do-- but Reinforcement bars Gde-60 in 1st floor	18237 Kg			Kg	

For P.A.A.

For Contractor

21	--do-- but Reinforcement bars Gde-60 in 2nd floor	1519 Kg			Kg	
22	P/L 1:2:4 C.C. machine made solid block masonry more than 6 inches thick using crush graded boulders 3/4 inch and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete; in ground floor super structure	5668 Cft			100 Cft	
23	--do-- but CC Block masonry in the 1st floor	5668 Cft			100 Cft	
24	--do-- but CC Block masonry in the 2nd floor	695 Cft			100 Cft	
25	Providing and laying gola 3" x 3" size wrth lime surkhi concrete 1:2:4 (1 lime, 2 surkhi and 4 brick ballast) with 1" (25 mm) and down gauge brick ballast at the junction of roof slab and walls and finished with lime surkhi plaster 1:2 including curing etc., complete	380 Rft			100 Rft	
26	Providing & laying of Aluminum foil 4mm thick Ezogrip of approved quality i/c the cost of clearing roof, cartage, wastage etc completed as per direction of Engineer incharge in any height in any floor.	6516 Sft			P-Sft	
27	1/4" thick cement plaster 1:3 on soffits of ceiling, cantilever slabs, sides and soffits of beams etc., in basement, mezzanine and ground floor including making edges, corners and curing etc., complete	6212 Sft			100 Sft.	
28	---- do --- but ceiling plaster on 1st Floor	6212 Sft			100 Sft.	
29	---- do --- but ceiling plaster on 2nd Floor	170 Sft			100 Sft.	
30	1/2" thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, and curing etc., complete.	15252 Sft			100 Sft.	
31	---- do --- but Wall Plaster on 1st Floor	15252 Sft			100 Sft.	
32	---- do --- but Wall Plaster on 2nd Floor	2920 Sft			100 Sft.	
33	Providing and fixing M.S. molded steel door frames of 5.73" x 2-1/2" (146 mm x 63 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S. 1245 having a double rebate size 1-1/2" x 1/2" (38 mm x 12 mm) provision of 3 Nos. M.S. plate, section 1-1/2" x 1/4" (38 mm	320 Rft			P.Rft	

For P.A.A.

For Contractor

	x 6 mm) (2 Nos. 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:1:2 etc. in any floor at any height complete as directed by the Engineer-in-Charge					
34	Supplying stacking and filling sand of approved quality from outside sources in foundation, trenches, plinth or under floor, etc. including dressing, watering and consolidation by ramming in layers not exceeding 9 inches in depth to full compaction and lift upto 5 feet.	6062 Cft			100 Cft.	
35	Providing and laying 1:4:8 cement concrete bed under floors using graded stone ballast 2 inches and down gauge with levelling and ramming, watering and curing etc. complete.	3031 Cft			100 Cft	
36	Providing and laying in situ 1:2:4 (1 cement 2 sand and 4 coarse aggregate) cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet depth (1.52 m) and plinth up to 4 feet (1.2 m) height from ground level .	294 Cft			100 Cft.	
37	Providing and laying light colour, glazed/ non skid vitrified porcelan tiles (Polished) exceeding 1600 Sqcm but not exceeding 3600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	9040 Sft			100 Sft	
38	Providing and laying floor of 3/4 inch thick white marble tiles, more than 3 Sq. ft upto 5 Sq.ft size fine dressed on the surface, without winding in ground floor over 1 inch cement mortar 1:2 setting the marble tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.	11898 Sft			100 Sft	
39	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm x 30mm and 2mm thick including the cost of aluminum netting ,fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge, but excluding the cost of glass pans.	324 Sft			Sft	

For P.A.A.

For Contractor

40	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminum doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height	324 Sft			Sft	
41	Providing and fixing 1-1/2 inches thick solid core deodar wood flushed veneered door shutters, with and including the cost of commercial plywood facing 3 mm. thick (3 ply) on both faces, fixed over best quality deodar wood frame 2 inches wide all-round 6 inches wide lock rail and 2nd class deodar wood solid core, i/c., 1/4 inch thick best quality deodar wood lipping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fittings but excluding the cost of handles and locking arrangement.	413 Sft			Sft	
42	P/F 1-1/2 Inch (38 mm) thick best quality PVC /UPVC door shutter paneled (approved design), approved iron hinges and tower bolts etc as required.	630 Sft			Sft	
43	Providing & Fixing 2" dia stainless steel pipe (18 guage) railing along with 4 Nos 3/4" dia parallel pipe having S/S pipe vertical post 2" dia at 3 ft C/C average spacing and 4' dia vertical post at start turning and end point including cost of labour, welding charges fitting & fixing completed as per direction of Engineer incharge	220 Rft			Rft	
44	P/L 3/4 inch Granite Stone Pakistani origin Tiles more than 7 Sq. ft upto 16 Sq.ft inch size fine dressed on the surface, without winding in any floor over 1 inch cement mortar 1:2 setting the marble tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar	736 Sft			100 Sft	
45	Providing & Fixing ward robe 24" deep consisting 19mm thick laminated sheet on bottom, top -sides partition, shelves & Shutters etc and 4mm thick pressed on back side, 2-1/2" X 1-1/4" best quality deodar wood frame and all open edge filled 3/4" molding PVC gola complete i/c the cost of glue iron nails screws, heavy type piano hinges 1/2" handle, catchers locks etc, complete in all respect as per direction of Engineer incharge.	2,046 Sft			P.Sft	
46	Providing and fixing 4" (100 mm) dia polyvinyl chloride rain water (PVC) down pipe with mild steel clamps, bolts and nuts fixed in cement concrete 1:2:4 etc. complete	50 Rft			P-Rft	
47	Providing and fixing 4" (100 mm) dia polyvinyle chloride (PVC) bend of any degree for rain water down pipe with clamps, bolts and nuts in cement concrete 1:2:4 etc. complete	4 Nos			P-Each	

For P.A.A.

For Contractor

48	Providing and fixing with C.P. brass screws carona main door lock with handle (Japan make) of approved design and colour (No. 21082), cutting wood etc., to required size and shape with two operating keys as per direction of the Engineer-in-Charge	18 Nos			P-Each	
49	Distempering with vinyle distemper (ICI) Dulux Paintex of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting, and filling the holes, cracks and inequalities, if any, at any height in any floor.	29952 Sft			100 Sft.	
50	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor	3708 Sft			100 Sft.	
51	Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor	930 Sft			100 Sft.	

Total

SH:- 2-B Plumbing & Sanitation Work

1	Making connection with the existing G.I. pipe upto 2 inches dia including cutting the pipe and providing and fixing necessary fittings.	1 Nos			Each	
2	P/F 1-1/2" Ø uPVC pipe "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm2)	520 Rft			Rft	
3	P/F 1" Ø uPVC Pipe "E" class with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm2).	240 Rft			Rft	
4	--do-- but 3/4" Ø uPVC E Class pipe	320 Rft			Rft	
5	P/F of 1-1/2 inch dia ball valve (with PVC Ball) made to B.S.S. 1212.	1 Nos			Each	
6	--do-- but 1" Ø Ball Valve	8 Nos			Each	
7	Providing and fixing Pakistani best quality European style white glazed earthenware W.,C pan complete with and including the cost of plastic seat and buffers, 13.6 litres flushing cistern with internal fittings complete, P.V.C	12 Nos			Each	

For P.A.A.

For Contractor

	flushing pipe with fittings and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.					
8	Providing and fixing squatting type W.C.Pan in white vitreous china with integral treads (Pakistani) orissa pattern and uPVC. trap 100mm dia. Complete with and including the cost of 13.6 litres best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	20 Nos			Each	
9	P/F of 22 inches x 16 inches lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of glazed earthenware half pedestal, Brass oxidized bolts kit built into walls 1/2 inches dia. Chrome plated mixer, 1-1/4 inches rubber plug and chrome plated brass chain 1-1/4 inches dia brass waste of approved pattern 1-1/4 inches dia chromium plated battal trap with unions and making requisite, number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	16 Nos			Each	
10	Providing & fixing chromium plated Muslim bib-cock with Muslim Shower of approved quality.	12 Nos			Each	
11	Providing and fixing 1/2 inches dia. (15 mm) CP Bib cocks.	20 Nos			Each	
12	P/F of 1/2 inch dia CP stop cocks/ Tee Stop Cock (Master / Faisal etc.) as directed	64 Nos			Each	
13	Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws	16 Nos			Each	
14	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete.	4 Nos			Each	
15	Providing and fixing uPVC Multi floor trape of sizes with gratings including cutting and making the requisite number of holes in walls plinth and floors and making good in 1:2:4, C.C.	48 Nos			Each	

For P.A.A.

For Contractor

16	P/F 4" dia (u.P.V.C) "E" class pipe with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm ²).	328 Rft			Rft	
17	Providing and fixing 6" x 6" (150 mm x 150 mm) with 4 inches (100 mm) outlet cement concrete C.I. gully trap wt: 42 lbs. (19 kg.) complete with 4 inches thick (100 mm) 1:2:4 cement concrete for bed and kerb, 1/2 inch (13 mm) thick cement plaster (1:3) to the kerb, C.I. grating 6 inches x 6 inches (150 mm x 150 mm) and C.I. cover and frame 12 inches x 12 inches (305 mm x 305 mm) (inside) etc., complete.	12 Nos			Each	
18	Providing manhole type 'A' size 2 feet x 1-1/2 feet) (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches dia pipes up to 3 feet-11 inches depth with cast iron cover and frame 16 inches dia, inside (weight=1 Cwt.1 Qtr.) or 63.5 kg. fixed in 4 inches thick RCC 1:2:4 slab, 8 inches thick c.c. 1:3:6 block masonry walls set in 1:3 c.m; 6 inches thick 1:3:6 c.c. in foundation 1:2:4 c.c. in benching, 1/2 inches thick cement plaster in 1:3 C.M. to all inside wall surface, channels and benching etc. and to top including making requisite number of main and branch channels but excluding the cost of excavation back filling and disposal of excavated stuff, manhole cover and frame.	14 Nos			Each	
19	Add for extra depth beyond 2 feet and up to 3 feet-11 inches (610 mm and up to 1194 mm) for 'A' type manholes (for depth lesser than 2 feet or 610 mm deduct at the same rate).	252 Inch			P-Inch	
20	Providing 12" Ø RCC pipes and collars of class 'A' and fixing in trench including cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) and testing with water to a head of 4 feet (1.22 m) above the top of the highest pipe including cartage within 10 miles	653 Rft			Rft	
21	Making connection with the existing manhole including the cost of cutting holes in walls, making them good in cement concrete 1:2:4 and .making the required channel etc., complete	1 Nos			Each	
22	Providing & laying R.C.C 1:2:4 slab cover 3" thick average (precast complete with M.S flat iron, M.S bars embedded in concrete) of any shape including the cost of reinforcement and welding etc. as per direction of Engineer Incharge.	14 Cft			Cft	
					Total	

For P.A.A.

For Contractor

SH:- 2-C Electrical Work						
1	Providing & installing 140 Cm (56") sweep ceiling fan with blades, canopy, standard length of down rod including connection with 14.0076" flexible wire complete as required. (without regulator) Millat/Pak/Asia/ Younas/Climax/ Royal.	34 Nos			Each.	
2	Providing & installing 20 Cm (8") sweep, Double Action, Plastic body Exhaust fan complete with blades, motor and pulling cord switch etc fixed in existing hole including connection with 14.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	4 Nos			Each.	
3	Providing & installing 20 Cm (10") sweep, Double Action, Plastic body Exhaust fan complete with blades, motor and pulling cord switch etc fixed in existing hole including connection with 14.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	8 Nos			Each.	
4	Providing, Installation Testing and Commissioning of surface mounted 13W ceiling lights / downlights including driver, having warm / neutral white / cool white colour, 80-90 lm/watts efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by the engineer in charge.	64 Nos			Each	
5	Wiring for light, fan or call bell point with 1.5mm ² PVC insulated wire in (20mm) 3/4" dia PVC conduit recessed in the wall or column including 1mm ² single core, PVC insulated wire as ECC as required	208 Pts			P.Pt	
6	Providing, Installation Testing and Commissioning of 4' 20Watts LED Tube/ Batten Lights including driver having warm / Neutral White / cool white colour, 80-90 lm/watts efficiency, 0.9 or above power factor, 10000-15000 hour life cycle, including connection, complete in all respect as approved by the Engineer Incharge,	92 Nos			Each	
7	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	24 Nos			Each.	
8	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	80 Nos			Each.	
9	Providing, installation, Testing & Commissioning of Flood lights, 150 Watts, (1p66) including driver, having cool white color (6500K), 90-110 lm/watt efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by Engineer	6 Nos			Each	

For P.A.A.

For Contractor

	incharge					
10	Providing & fixing 10 Amps 2 Gang holes sheet (switch - 02) fixed on wooden board, recessed in wall or column including connection as required.	4 Nos			Each	
11	Providing & fixing 10 Amps 4 Gang holes sheet (switch - 04) fixed on wooden board, recessed in wall or column including connection as required.	4 Nos			Each	
12	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 06) fixed on wooden board, recessed in wall or column including connection as required.	3 Nos			Each	
13	Providing & fixing 10 Amps 8 Gang holes sheet (switch - 07 , socket - 01) fixed on wooden board, recessed in wall or column including connection as required.	34 Nos			Each	
14	Providing & fixing 10 Amps 8 Gang holes sheet (switch - 06 Nos, Socket-01 Nos , Fan Dimmer-01 No) fixed on wooden board, recessed in wall or column including connection as required.	4 Nos			Each	
15	Wiring for submain with 2 x 2.5mm ² PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm(3/4")dia uPVC conduit recessed in the wall, column and roof etc as required	4816 Rft			P.Rft	
16	Wiring for submain with 2 x 6mm ² PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm(3/4")dia uPVC conduit recessed in the wall, column and roof etc as required	1324 Rft			P.Rft	
17	Wiring for submain with 2 x 10mm ² PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm(3/4")dia uPVC conduit recessed in the wall, column and roof etc as required	1079 Rft			P.Rft	
18	Wiring for sub-main with 3 core, 4mm ² PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm(3/4")dia uPVC conduit recessed in the wall, column and roof etc as required.	444 Rft			P.Rft	
19	Providing, fixing, testing and commissioning of microprocessor based 02 loop addressable fire control panel surface / recesed mounting type with full switching programming capabilities, system suitable for operation at 230 volts, 50hz with full functionality as per specification, drawing, etc. complete in all respect as approved by the engineer incharge.	1 Nos			Each	
20	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14" x 18" x 8"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos – 63 Amps, DP, MCB, Icu 10kA	10 Job			P.Job	

For P.A.A.

For Contractor

	09 Nos- 16A, SP, MCB, 6kA 01 Nos- 32A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)					
21	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14" x 18" x 8"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos – 63 Amps, DP, MCB, Icu 10kA 08 Nos- 16A, SP, MCB, 6kA 01 Nos- 32A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)	4 Job			P.Job	
22	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 12" x 12" x 8"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos – 32 Amps, DP, MCB, Icu 10kA 04 Nos- 16A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)	1 Job			P.Job	
23	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 12" x 12" x 8"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos – 32 Amps, DP, MCB, Icu 10kA 01 Nos- 20A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)	1 Job			P.Job	
24	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 48"x36"x8"(width 48", height 36", depth 8"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 125 Amps, TP, MCCB, Icu 25kA, Ics 13kA 12 Nos – 63 Amps, DP, MCB, Icu 10kA 01 Nos – 32 Amps, DP, MCB, Icu 10kA 01 Nos – 32 A TP MCCB 2.5 kA 01 Set – 250 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job			P.Job	
					Total	

For P.A.A.

For Contractor

Pakistan Airports Authority
ES DIVISION CIVIL-I, JIAP

Bill of Quantities

NAME OF WORK: REHABILITATION OF LADIES HOSTEL AT NAAS KARACHI

S.No.	Description	Amount
SH-3-A	Civil Work	
SH-3-B	Electrification	
SH-3-C	HVAC	
	Total Amount	

PAKISTAN AIRPORTS AUTHORITY

REHABILITATION OF LADIES HOSTEL AT NAAS KARACHI

Bill of Quantities

S. No.	Description	Quantity	Rate		Unit	Amount
			in Figure	in Words		
SH:- 3-A Civil Work						
1	Taking out carefully shutters of doors and windows in ground floor and stacking as directed within three chains (91.5 m).	73 No			Each	
2	Taking out door and window frames with or without hold fasts in ground floor including cutting walls, stacking salvaged material (serviceable) and disposing of un-serviceable material as directed within three chains (91.5 m).	44 No			Each	
3	Removing damaged/worn out glazed WC's, Wash Basin etc. including stacking serviceable material in PAA store and disposing of unserviceable material or rubbish outside airport premises as directed by Engineer incharge	56 No			Each	
4	Dismantling flase ceiling on any type with wooden or aluminum frame in ground floor including stacking the salvaged material (serviceable) and disposing of unserviceable stuff as directed within three chains (91.5m)	17,977 Sft			100 Sft	
5	Dismantling rain water pipe including clamps and specials and stacking serviceable material, disposal of unserviceable material as directed within three chains (91.5 m).	990 Rft			100 Rft	
6	Dismantling cement tiled floor, dado or skirting in basement, plinth and ground floor including base mortar and stacking salvaged material (serviceable) and disposing of surplus stuff as directed within three chains	27,884 Sft			100 Sft	
7	Dismantling R.C.C. including separating reinforcement from concrete in foundation, basement, plinth and ground floor including stacking at site and disposing of unserviceable material within three chains (91.5 m)	175 Cft			100 Cft	
8	Cartage of sand, bajri, lime, surkhi, murum, manure, earth & building rubbish including loading, unloading and stacking etc at site dispose off (by mechanical means) upto 2 miles (3.2 Km) lead	2,406 Cft			100 Cft	
9	Providing and laying in situ 1:2:4 cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge in architraves, coping and cornice etc. of required shape in superstructure including compacting, curing, cost of form work and its removal etc., complete in Ground floor.	43 Cft			100 Cft.	

10	P/L RCC using crushed graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in raft or ordinary slab 5 sunshade or chajja 5 inches to 6 inches thick including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in ground floor	175 Cft			100 Cft.	
11	Providing and fixing R. S. Joists and channels including welding all the side of the sections at the junction, gusset plates, bolts, nuts etc. complete with hoisting and erecting in position in steel trusses, frames, towers etc of any design in ground floor.	343 Kg			P-Kg	
12	Providing and fixing water tank made of food grade polyethylene material 500 gallon (Supper tuff) i/c cost of specials and cartage upto site as per direction of Engineer in charge	4 Nos			Each	
13	Making connection with the existing G.I. pipe larger than 2 inches to 6 inches (50 mm to 150mm) dia including cutting the pipe and providing and fixing necessary fittings	2 Nos			Each	
14	Making connection with the existing G.I. pipe upto 2 inches (50 mm) dia including cutting the pipe and providing and fixing necessary fittings.	4 Nos			Each	
15	P/F 2 inches (50mm) dia un plasticized polyvinyl chloride pipe (u.P.V.C) "E" class with specials) and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (16.09 km) (working pressure 12 kg/cm ²)	130 Rft			Rft	
16	--do-- but 1-1/2" (40mm) dia Pipe	150 Rft			Rft	
17	--do-- but 3/4"(20mm) dia Pipe	775 Rft			Rft	
18	P/F of 2 inch (50 mm) dia ball valve (with PVC Ball) made to B.S.S. 1212.	2 Nos			Each	
19	--do-- but 1-1/2" (40 mm) dia Ball Valve	2 Nos			Each	
20	--do-- but 3/4" (20 mm) dia Ball Valve	2 Nos			Each	
21	Plastering 1" thick in patches in cement sand mortar 1:4 including curing and scraping old damaged portion in regular shape and removal of rubbish from the site etc. complete as per direction of Engineer-in-Charge in any floor.	13,586 Sft			100 Sft	
22	P/F expanded metal or wire net lathing with 3/4" (19 mm) cement plaster 1:4 in 3 layers including curing etc., complete in any floor with wire-netting 1-1/2" (38 mm) mesh x 18 gauge (1,41 mm)	4,445 Sft			100 Sft	
23	Providing & Laying of Aluminum foil 4mm thick Ezogrip / Hygrip or equivalent of approved quality i/c the cost of clearing roof , cartage,	18031 Sft			Sft	

	wastage etc completed as per direction of Engineer incharge in any height in any floor					
24	Providing and fixing M.S. molded steel door frames of 5.73" x 2-1/2" (146 mm x 63 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S. 1245 having a double rebate size 1-1/2" x 1/2" (38 mm x 12 mm) provision of 3 Nos. M.S. plate, section 1-1/2" x 1/4" (38 mm x 6 mm) (2 Nos. 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:1.2 etc. in any floor at any height complete as directed by the Engineer-in-Charge	792 Rft			P.Rft	
25	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm x 30mm and 2mm thick including the cost of aluminum netting ,fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge, including the cost of 5mm thick tinted glass pans	544 Sft			Sft	
26	P/F 1-1/2 inches thick solid core deodar wood flushed veneered door shutters, with and including the cost of commercial plywood facing 3 mm. thick (3 ply) on both faces, fixed over best quality deodar wood frame 2 inches wide all-round 6 inches wide lock rail and 2nd class deodar wood solid core, i/c., 1/4 inch thick best quality deodar wood lipping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fittings but excluding the cost of handles and locking arrangement.	665 Sft			P-Sft	
27	P/F 1-1/2 Inch (38 mm) thick best quality PVC /UPVC door shutter paneled (approved design), approved iron hinges and tower bolts etc as required	875 Sft			Sft	
28	P/F dampa ceiling aluminum, china make 2' x 2' tiles/ strip ceiling including all accessories i.e, plump, rod etc complete as required in any floor	3,568 Sft			P-Sft	
29	P/F Gypsum board 2' x 2' x 12mm tiles ceiling i/c Aluminum T and L angle 1" x 1" i.c hanger clips jointing clips and g.l. Wire etc complete as required in any floor	14,409 Sft			P-Sft	
30	P/F PVC hard sheet wall paneling or lining (Plain) on wall, Jamb, skirting etc. on concrete surface or on wooden backing but excluding the cost of backing etc., as required	3015 Sft			P-Sft	
31	Providing and laying light colour, glazed/non-skid vitrified porcelain tiles (Polished) exceeding 1600 Sqcm and upto 3600 each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a	27,884 Sft			100 Sft	



	base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge					
32	P/F kitchen floor cabinet making of shutter board box & 3/4 inch thick high gloss laminated lasani shutter, PVC beading PVC beading, deodar wooden frame 2.5 X 1.25 inch size making tray drawer of approved design etc, fixed with rawal plugs screws including cost of glue, nail, hinges, handles etc as per drawings, complete in all respect.	130 Sft			P-Sft	
33	Providing and fixing kitchen wall cabinet making of shutter board box & 3/4 inch thick high gloss laminated lasani shutter, PVC beading PVC sheet backing of approved design etc, fixed with rawal plugs screws i/c cost of glue, nail, hinges, handles etc as per drawing, completed in all respect	109 Sft			P-Sft	
34	Providing & Fixing ward robe 24" deep consisting 19mm thick laminated sheet on bottom, top -sides partition on, shelves & Shutters etc and 4mm thick pressed on back side, 2-1/2" X 1-1/4" best quality deodar wood frame and all open edge filled 3/4" molding PVC gola complete i/c the cost of glue iron nails screws, heavy type piano hinges 1/2" handle, catchers locks etc, complete in all respect as per direction of Engineer incharge.	1,800 Sft			P-Sft	
35	Providing and fixing Pakistani best quality European style white glazed earthenware W.C pan complete with and including the cost of plastic seat and buffers, 13.6 liters flushing cistern with internal fittings complete, P.V.C flushing pipe with fittings and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	16 Nos			Each	
36	Providing and fixing squatting type W.C.Pan in white vitreous china with integral treads (Pakistani) orissa pattern and uPVC. trap 100mm dia. Complete with and including the cost of 13.6 litres best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	32 Nos			Each	
37	P/F of 22 inches x 16 inches lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of glazed earthenware half pedestal, Brass oxidized bolts kit built into walls 1/2 inches dia. Chrome plated mixer, 1-1/4 inches rubber plug and chrome plated brass chain 1-1/4 inches dia brass waste of approved pattern 1-1/4 inches dia chromium plated battal trap with unions and making requisite, number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	12 No			Each	
38	Providing and fixing approved quality earthen ware glazed vanity basin standard size (White/light colour) and including the cost of 1-1/4" dia brass waste 1-1/4" rubber plug and chrome plated brass chain PVC waste pipe 1-1/4" dia of approved pattern etc. complete.	16 No			Each	

For P.A.A

39	Providing & fixing chromium plated Muslim bib-cock with Muslim Shower of approved quality.	234 Nos			Each	
40	Providing and fixing 1/2 inches dia. (15 mm) CP Bib cocks.	720 Nos			Each	
41	P/F of 1/2 inch dia CP stop cocks/ Tee Stop Cock (Master / Faisal etc.) as directed	56 Nos			Each	
42	P/Fixing Toilet Paper Holder CP (Master or equivalent) Best Quality complete in any floor as directed	28 Nos			Each	
43	P/L 3/4 inch Granite Stone Pakistani origin Tiles more than 7 Sq. ft upto 16 Sq.ft inch size fine dressed on the surface, without winding in any floor over 1 inch cement mortar 1:2 setting the marble tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.	411Sft			100 Sft	
44	Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws	30 Nos			Each	
45	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete	32 Nos			Each	
46	Providing and fixing uPVC Multi floor trap of sizes with gratings including cutting and making the requisite number of holes in walls plinth and floors and making good in 1:2:4, C.C.	48 Nos			Each	
47	P/F 4" dia (u.P.V.C) "E" class pipe with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm ²).	864 Rft			Rft	
48	Providing and fixing 6" x 6" (150 mm x 150 mm) with 4 inches (100 mm) outlet cement concrete C.I. gully trap wt: 42 lbs. (19 kg.) complete with 4 inches thick (100 mm) 1:2:4 cement concrete for bed and kerb, 1/2 inch (13 mm) thick cement plaster (1:3) to the kerb, C.I. grating 6 inches x 6 inches (150 mm x 150 mm) and C.I. cover and frame 12 inches x 12 inches (305 mm x 305 mm) (inside) etc., complete.	24 Nos			Each	
49	Providing manhole type 'A' size 2 feet x 1-1/2 feet (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches dia pipes up to 3 feet-11 inches depth with cast iron cover and frame 16 inches dia, inside (weight=1 Cwt.1 Qtr.) or 63.5 kg. fixed in 4 inches thick RCC 1:2:4 slab, 8 inches thick	13 Nos			Each	



	c.c. 1:3:6 block masonry walls set in 1:3 c.m; 6 inches thick 1:3:6 c.c. in foundation 1:2:4 c.c. in benching, 1/2 inches thick cement plaster in 1:3 C.M. to all inside wall surface, channels and benching etc. and to top including making requisite umber of main and branch channels but excluding the cost of excavation back filling and disposal of excavated stuff, manhole cover and frame					
50	Add for extra depth beyond 2 feet and up to 3 feet-11 inches (610 mm and up to 1194 mm) for 'A' type manholes (for depth lesser than 2 feet or 610 mm deduct at the same rate)	234 Inch			P-Inch	
51	Providing 12" Ø RCC pipes and collars of class 'A' and fixing in trench including cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) and testing with water to a head of 4 feet (1.22 m) above the top of the highest pipe including cartage within 10 miles	880 Rft			Rft	
52	Making connection with the existing manhole including the cost of cutting holes in walls, making them good in cement concrete 1:2:4 and .making the required channel etc., complete	1 Nos			Each	
53	Providing & laying R.C.C 1:2:4 slab cover 3" thick average (precast complete with M.S flat iron, M.S bars embedded in concrete) of any shape including the cost of reinforcement and welding etc. as per direction of Engineer Incharge	13 Cft			Cft	
54	Providing and fixing with brass screws Alpha "W" lock knob set Plain Latch of approved design (Japan make) cutting wood to required shape and size with two operating keys as per direction of the Engineer-in-Charge.	8 Nos			Each	
55	Providing and fixing with C.P. brass screws carona main door lock with handle (Japan make) of approved design and colour (No. 21082), cutting wood etc., to required size and shape with two operating keys as per direction of the Engineer-in-Charge	36 Nos			Each	
56	Providing and fixing with brass screws or specially supplied screws hydraulic door closer Ryobi or approved design No. 72, Japan make, cutting wood etc., to required shape and size as per direction of engineer-in-charge	6 Nos			Each	
57	Distempering with vinyl distemper (ICI) Dulux Paintex of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting, and filling the holes, cracks and inequalities, if any, at any height in any floor	19755 Sft			100 Sft.	
58	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor	20478 Sft			100 Sft.	

59	Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor	1497 Sft			100 Sft.	
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Total

SH:- 3-B Electrical Work						
1	Wiring for light, fan or call bell point with 1.5mm ² PVC insulated wire in (20mm) 3/4" dia PVC conduit recessed in the wall or column including 1mm ² single core, PVC insulated wire as ECC as required	319 Pts			P.Pt	
2	Wiring for sub-main with 2 core, 2.5mm ² PVC insulated copper cable in 20mm (3/4") PVC conduit recessed in the roof, wall & column including 1.5 mm ² single core, PVC insulated copper wire as ECC as required.	20300 Rft			P.Rft	
3	Wiring for sub-main with 2 core, 6mm ² PVC insulated copper cable in 25mm (1") PVC conduit recessed in the roof, wall & column including 2.5 mm ² single core, PVC insulated copper wire as ECC as required.	11000 Rft			P.Rft	
4	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	116 Nos			Each	
5	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	69 Nos			Each	
6	Providing & fixing basic batten, surface type, fitting complete with LED Tube Light 1 x 16 watts, T8, 4 feet Philips make as Philips Cat.	146 Nos			Each	
7	Providing & fixing 6 Amps plastic ceiling rose on PVC round block / round cover fitted on surface including connection as required.	292 Nos			Each	
8	Providing & installing 30 Cm (12") sweep, metal body Exhaust fan complete with blades, motor, etc fitted in existing hole including connection with 14/.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	21 Nos			Each	
9	Providing and installation 140cm (56") ceiling fan with blades, canopy, stranded length of down rod including connection with 14.0076 flexible wire complete as reqd (Without regulator)	70 Nos			Each	
10	Providing & installing 45 Cm (18") sweep wall bracket fan, plastic body, complete with blades, fitted on wall or column with GI clip including connection with 14.0076" flexible wire complete as required.	38 Nos			Each	
11	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd.	1 Job			P.Job	

For P.A.A

	01 No. – 125 Amps, TP, MCCB, Icu 25kA, Ics 13kA 06 Nos – 30 Amps, DP, MCB, Icu 16kA 26 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 250 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)				
12	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 100 Amps, TP, MCCB, Icu 25kA, Ics 13kA 06 Nos – 30 Amps, DP, MCB, Icu 16kA 18 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 200 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job		P.Job	
13	Supply and Installation of 18 watt LED Bulb with holder complete in all respect	19 Nos		Each	
14	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 125 Amps, TP, MCCB, Icu 25kA, Ics 13kA 10 Nos – 30 Amps, DP, MCB, Icu 16kA 32 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 250 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job		P.Job	
15	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 100 Amps, TP, MCCB, Icu 25kA, Ics 13kA 06 Nos – 30 Amps, DP, MCB, Icu 16kA 18 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 200 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job		P.Job	
16	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 100 Amps, TP, MCCB, Icu 25kA, Ics 13kA 06 Nos – 30 Amps, DP, MCB, Icu 16kA 18 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 200 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job		P.Job	

17	Providing, installation, Testing & Commissioning of 100 Watts Flood Lights (Ip65) including driver, having cool white colour, 90-110 lm/watt efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by Engineer incharge	24 Nos			Each	
18	Providing & fixing compact/cubical 16 SWG MS, concealed type DB duly painted size 24"x18"x6"(width 12", height 18", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 50 Amps, TP, MCB, Icu 10kA 06 Nos. – 16 Amps, SP, MCB, Icu 10kA 01 No. – Photoelectric EE switch, 3 Amp 01 No. – Magnetic Contactor 48 Amp, 3P+2a2b	4 Job			P.Job	
19	Wiring for sub-main with 2 core, 4mm ² PVC insulated copper cable in 25mm (1") PVC conduit recessed in the roof, wall & column including 2.5 mm ² single core, PVC insulated copper wire as ECC as required.	6500 Rft			P.Rft	
20	Providing & fixing compact/cubical 16 SWG MS, concealed type DB duly painted size 42"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 600 Amps, TP, MCCB, Icu 85kA 02 Nos. – 125 Amps, TP, MCCB, Icu 68kA 03 Nos. – 100 Amps, TP, MCCB, Icu 50kA 04 Nos. – 50 Amps, TP, MCCB, Icu 15kA Bus-Bar (01 set)-1000 A Copper Bus Bar with CTs and PT with indication meters. 01 Set – Phase indication lamps (R.Y.B)	1 Job			P.Job	
21	Providing and laying 4 core, 10 mm ² insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, armoured in 25 mm (1") dia uPVC conduit buried in the ground with 6mm ² cable as ECC dully covered with sand and warning cable tiles as per Pak. P.W.D specification as required.	1800 Rft			P.Rft	
22	Providing and fixing Earthing set with 2'x2'x1/8" copper plate buried in the existing pit (with salt and charcoal, or Earthing chemical Powder) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required.	3 Nos			Each	
23	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 04 Nos, fan dimmer - 01 No, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	71 Nos			Each	
24	Providing & fixing 10 Amps 5 Gang holes sheet (switch - 03 Nos, fan dimmer - 01 No, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	36 Nos			Each	

25	Providing & fixing 10 Amps 5 Gang holes sheet (switch - 04 Nos, No, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	40 Nos			Each	
					Total	

SH:- 3-C HVAC Work						
1	Providing, Installation, Energization ready for operating split type wall mounted 1.5 TR (18,000 BTU/Hr) capacity Air-Conditioner inverter, T3 type, charged with R-410 in the specified place. The job includes positioning, installation of indoor and outdoor unit at roof top of building on given MS frame with rubber foundation, nut/bolt including all interconnections for refrigerant piping, drain piping, electrical wiring, control wiring etc. Job also include Pressure testing with Nitrogen gas, leak detecting, vacuuming and top-up by charging refrigerant up to required level in the system i/c testing/commissioning of unit as per manufacturer recommendation and as per instruction of Engineer Incharge complete in all respect.	26 Job			Job	
2	Providing, Installation, Energization ready for operating split type Floor Standing 2- TR (24,000 BTU/Hr) capacity T-3 rating, inverter Air-Conditioner unit charged with R-410a as per schedule in the specified place. The job includes positioning, installation of indoor on wooden platform and outdoor unit at roof top of building with rubber foundation, nut/bolt including refrigerant piping, drain piping, electrical wiring, control wiring interconnections as per instruction of engineer incharge complete in all respect.	13 Job			Job	
3	Providing & fabrication of M.S material angle iron frame for outdoor units of 1.5 TR wall mounted split A.C unit i/c cutting, welding of frame. Job includes 01 coat of red oxide paint & 02 coat of enameled paint as per instruction of Engineer Incharge	26 Job			Job	
4	Providing & fabrication of M.S material angle iron frame for outdoor units of 02 TR floor standing type A.C unit i/c cutting, welding of frame. Job includes 01 coat of red oxide paint & 02 coat of enameled paint as per instruction of Engineer Incharge	13 Job			Job	
5	Providing installation, testing and commissioning of refrigerant copper pipe 3/8" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation, wrapping tape,etc complete in all respect as approved by the engineer incharge. Engineer Incharge.	400 RFT			RFT	
6	Providing installation, testing and commissioning of refrigerant copper pipe 5/8" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation, wrapping tape,etc complete in all respect as approved by the engineer incharge. Engineer Incharge	400 RFT			RFT	

For P.A.A

7	Providing installation,testing and commissioning of refrigerant copper pipe 1/4" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation,wrapping tape,etc complete in all respect as approved by the Engineer Incharge.	650 RFT			RFT	
8	Providing installation,testing and commissioning of refrigerant copper pipe 1/2" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation,wrapping tape,etc complete in all respect as approved by the Engineer Incharge.	650 RFT			RFT	
9	Providing & fixing of 6 to 32 Amps S.P MCCB fixed on existing board i/c inter connection as required.	39 No			Each	
10	Wiring for sub-main with 2x4mm ² PVC insulated wire 300/500 volts grade,single core. stranded copper conductor wire including 1.5mm ² pvc insulated wire single core as ECC in 20mm (3/4") dia upvc conduit fitted on surface as required.	550 Mtr			Meter	
11	Wiring for sub-main with 4 core 4 mm ² standard copper conductor, PVC insulated and PVC sheathed circular/flat cable I/c 2.5 mm ² single core PVC insulated ware as ECC in 30 mm (1 1/4") dia UPVC conduit fitted on surface as required.	350 Mtr			Meter	
12	Providing and fixing of 1 " dia CPVC SCH 80 pipe for drain line with elbow, sockets, bends and unions from unit to main hole as per instruction of Engineer Incharge.	300 Mtr			Meter	
13	Wiring for sub-main with 3 core 2.5 mm ² standard copper conductor, PVC insulated and PVC sheathed circular/flat cable I/c 1.5 mm ² single core PVC insulated ware as ECC in 25 mm (1") dia UPVC conduit fitted on surface as required.	750 Mtr			Meter	
					Total	

Pakistan Airports Authority
ES DIVISION CIVIL-I, JIAP

Bill of Quantities

NAME OF WORK: CONSTRUCTION OF ACADEMIC BLOCK IN NAAS AT KARACHI
(BALANCE WORKS)

S.No.	Description	Amount
SH-4-A	Civil Works	
SH-4-B	Plumbing Works	
SH-4-C	Construction of Boundary Wall	
SH-4-D	Electric Works	
SH-4-E	HVAC Works	
SH-4-F	Interior Finishing / Furniture	
	Total Amount	

PAKISTAN AIRPORTS AUTHORITY

CONSTRUCTION OF ACADEMIC BLOCK IN NAAS AT KARACHI
(BALANCE WORKS)

Bill of Quantities

S. No.	Description	Quantity	Rate		Unit	Amount
			in Figure	in Words		
SH:- 4-A Building Work						
1	Providing a coat of bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm) on walls and floor in ground floor.	29,728Sft			100 Sft	
2	Providing and laying 1:9 cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge In terracing 3 inches (76 mm) average thickness to required slope in panels including form work, consolidation, finishing, curing etc. and painting the surface with plastic bitumen No. 4 at the rate of 15 lbs per hundred square feet (0.73 Kg per s.m) blinded with sand at the rate of 2 cubic feet per hundred square feet (0.06 Kg per s.m) complete" on ground floor roof.	29,728 Sft			100 Sft	
3	Providing & laying of Aluminum foil 4mm thick Ezogrip / Hy-Grip of approved quality i/c the cost of clearing roof , cartage, wastage etc completed as per direction of Engineer incharge in any height in any floor	29,728 Sft			P- Sft	
4	P/L R.C.C. using crushed graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq. inch at 28 days with a mix not leaner than 1:2:4 in precast shelves 1-1/2 inches to 2 inches thick including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in any floor	76 Cft			100 Cft	
5	--do-- but RCC 1:2:4 in ordinary slab 3 inches to less than 5 inches thick	475 Cft			100 Cft	
6	Providing and fixing 1:2 precast reinforced or plain cement concrete jali or louvers upto 2 inches (51 mm) thick in required shape including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor (no deduction for holes shall be made)	2,796 Cft			100 Cft.	
7	Providing and laying floors of 3 inches thick 1:2:4 cement concrete using graded screened bajri 3/4 inch and down gauge in ground floor laid in panels including form work,	51,168 Sft			100 Sft	

	consolidation, finishing and curing etc. complete.					
8	P/L light colour, glazed / non-skid vitrified porcelain tiles (Polished) exceeding 3600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	1,900 Sft			100 Sft	
9	P/L light colour, glazed/non-skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm and upto 3600 each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	31,473 Sft			100 Sft	
10	P/L floor of 3/4 inch thick white marble tiles, more than one Sq. inch upto 3 Sq.ft inch size fine dressed on the surface, without winding in ground floor over 1 inch cement mortar 1:2 (one lime, two sand) setting the marble tile with grey cement slurry over lime mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.	28,070 Sft			100 Sft	
11	--do-- but in 1st Floor	26,705 Sft			100 Sft	
12	P/L floor of 3/4 inch thick Granite Stone (Pakistani origin) tiles more than 5 Sq. inch upto 7 Sq.ft inch size fine dressed on the surface, without winding in ground floor over 1 inch cement mortar 1:2 setting the tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.	12,176 Sft			100 Sft	
13	P/F 1-1/2 Inch (38 mm) thick best quality PVC /UPVC door shutter paneled (approved design), approved iron hinges and tower bolts etc as required.	1,844 Sft			P-Sft	
14	P/F uPVC Sliding windows complete with and including cost of 5mm thick tinted glass in sliding panels, fly proof screen shutter consisting 86mmx52mm size main frame, 18mm thick sliding and fly screen shutter frame etc complete with handles, locks as per manufacturer's specification and direction of Engineer incharge.	3,742 Sft			P-Sft	
15	Providing & Fixing 2' dia stainless steel pipe (18 guage) railing alongwith 4 Nos 3/4" dia parallel pipe having S/S pipe vertical post 2" dia at 3 ft C/C average spacing and 4' dia vertical post at start turning and end point including cost of labour, welding charges fitting & fixing .completed as per direction of Engineer incharge	2,760 Rft			P-Rft	
16	Providing and fixing one inch (25 mm) thick best quality deodar wood planking in shelves on deodar wood brackets each having	1,647 Sft			P-Sft	

	cross sectional area approximately 4 square inches (26 SqM.) and spaced at 4 feet (0.9 m) centre to centre fixed to walls with screws and rawal plugs etc., as required					
17	Providing and fixing 2 inch (51 mm) thick best quality deodar wood shutters fully panelled with same wood, approved iron hinges and tower bolts, etc., as required	7,643 Sft			P-Sft	
18	Providing and fixing 2 inches (51 mm) thick best quality deodar wood shutters partly panelled and partly glazed with 1/4 inch (6.4 mm) thick plate glass of approved quality, approved iron hinges and tower bolt, deodar wood beading and putty packing to glasses etc., as required	364 Sft			P-Sft	
19	Providing and fixing with brass screws Alpha knob set lock of approved design (No. 7000) Japan make, cutting wood to required shape and size with two operating keys as per direction of the Engineer-in-Charge	321 Nos			Each	
20	Providing and fixing with brass screws or specialty supplied screws hydraulic door closer Rayobi of approved design No. 62, Japan make, cutting wood etc., to required shape and size as per direction of engineer-in-charge.	215 Nos			Each	
21	Providing and fixing on frames etc., with sunken iron screws best quality deodar wood moulding, beading, architrave etc., of approved design over one square inch and up-to 2 square inches in cross section as required	4,816 Rft			P-Rft	
22	Distempering with vinyle distemper (ICI) Dulux Paintex of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting, and filling the holes, cracks and inequalities, if any, at any height in any floor.	57,829 Sft			100 Sft	
23	Painting with (ICI) Dulux plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface at any height in any floor	136,572 Sft			100 Sft	
24	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor.	78,202 Sft			100 Sft.	
25	Painting iron work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor	7,484 Sft			100 Sft	
26	Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor	15,286 Sft			100 Sft	
					Total	

For P.A.A.

	SH:- 4-B Plumbing Work					
1	Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. (13.6 liters) white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches (40mm) dia white porcelain enameled flush bend, 3/4 inch (20mm) dia, G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	46 Nos			Each	
2	Providing and fixing squatting type W.C.Pan in white vitreous china with integral treads (Pakistani) orissa pattern and C.I. trap 100mm dia. Complete with and including the cost of 13.6 litres best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	24 Nos			Each	
3	Providing and fixing 22 inches x 16 inches lavatory basin in white glazed earthenware (Pakistani) complete with and incl cost of CP lever mixer (master or equivalent), Brass oxidized bolts kit built into walls 1/2 inches dia. Chrome plated mixer, 1 1/4 inches rubber plug and chrome plated brass chain 1-1/4 inches dia brass waste of approved pattern 1-1/4 inches dia chromium plated battal trap with unions and making requisite, number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	26 Nos			Each	
4	Providing and fixing approved quality earthen ware glazed vanity basin standard size (White/light colour) and including the cost of 1-1/4" dia brass waste 1-1/4" rubber plug and chrome plated brass chain PVC waste pipe 1-1/4" dia of approved pattern incl cost of CP lever mixer (master or equivalent) etc. complete.	44 Nos			Each	
5	Providing and fixing approved quality stainless steel sink 33" x 18" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls 1/2" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	2 Nos			Each	
6	Providing and fixing 1/2 inch (15 mm) dia plastic connection complete with a 1/2 inch (15 mm) dia brass stop cock two brass nuts and lining jointed to plastic pipe	214 Nos			Each	
7	Providing & fixing chromium plated Muslim bib-cock with Muslim Shower of approved quality	70 Nos			Each	
8	P/F Chromium Plated Brass Bottle Trap with union & pipe, 1-1/2 inches dia.	70 Nos			Each	



9	Providing and fixing Royal bath room accessories of set of 7 pieces consist of one cosmetic shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc complete of approved quality as per direction of Engineer in-charge.	24 Nos			Each	
10	Providing & Fixing Royal Soap Dish	44 Nos			Each	
11	Providing and fixing 24"x3/4" dia approved quality of chrome plated brass towel rail complete with brackets fixed with 1" long C.P brass screws and rawal plug.	33 Nos			Each	
12	Providing and fixing approved quality C.P. brass toilet paper holder.	70 Nos			Each	
13	Providing and fixing 24 inches x 18 inches Looking mirror of Belgium glass complete with Plastic frame and C.P. Brass screws.	70 Nos			Each	
14	Providing and fixing uPVC Multi floor trape of sizes with gratings including cutting and making the requisite number of holes in walls plinth and floors and making good in 1:2:4, C.C.	210 Nos			Each	
15	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete	96 Nos			Each	
16	Providing and fixing Shower tray made of fiber glass of any colour and design 31 inches x 31 inches	96 Nos			Each	
17	Providing & Fixing uPVC Vent Cowel 110mm dia.	17 Nos			Each	
18	Supply & Fixing uPVC Vent Cowel 75mm dia	26 Nos			Each	
19	Providing and fixing un platized polyvinyl chloride pipe (P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm ²)					
a	2" dia	559 Rft			P.Rft	
b	3" dia	762 Rft			P.Rft	
c	4" dia	1,410 Rft			P.Rft	
d	6" dia	23 Rft			P.Rft	

20	Providing manhole type 'A' size 2 feet x 1-1/2 feet (inside dimensions) x 2 feet deep as per approved design and specifications complete for 4 inches to 12 inches dia pipes up to 3 feet-11 inches depth with cast iron cover and frame 16 inches dia, inside (weight=1 Cwt.1 Qtr.) or 63.5 kg. fixed in 4 inches thick RCC 1:2:4 slab, 8 inches thick c.c. 1:3:6 block masonry walls set in 1:3 c.m.; 6 inches thick 1:3:6 c.c. in foundation 1:2:4 c.c. in benching, 1/2 inches thick cement plaster in 1:3 C.M. to all inside wall surface, channels and benching etc. and to top including making requisite number of main and branch channels but excluding the cost of excavation back filling and disposal of excavated stuff, manhole cover and frame.	50 Nos			Each	
21	Add for extra depth beyond 2 feet (610 mm) and upto 3 feet-11 inches (1.19 M) for 'A' type manholes (for depth lesser than 2 feet or 610 mm deduct at the same rate).	100 Inch			Inch	
22	Providing & fixing C.I Cover & Frame 18" dia (460 mm) weight 1 cwt 3 Qtr (88.90 Kg.)	50 Nos			Each	
23	Providing manhole type 'B' size 3 feet x 2-1/2 feet (inside dimensions) x 4 feet deep as per approved design and specifications complete 4 inches to 12 inches dia. pipes 4 feet to 7 feet-5 inches depth with cast iron cover and frame 18 inches dia. (inside) weight -1 Cwt. 3 Qtrs. (88.90 kg.) in 6 inches thick RCC 1:2:4 slab, 8 inches thick c.c. 1:3:6 block masonry walls set in 1:3 c.m. 6 inches thick, 1:3:6, c.c in foundation 1:2:4 c.c in benching, 1/2 inch thick cement plaster in 1:4 c.m. to all inside wall surfaces, channels and benching etc. and to top including providing and fixing cast iron foot rest at every foot of depth and making requisite number of main and branch channels complete but excluding the cost of excavation, back filing, disposal of excavated stuff manhole cover and frame	1 Nos			Each	
24	Add for extra depth beyond 4 feet and up to 7 feet -5 inches (1.22 m and up to 2.26 m) 'B' type manholes and including the cost of cast iron foot rest at every foot (305 mm) of depth, (for depth lesser than 4 ft. (1.22 m) deduct at same rate)	2 Inch			Inch	
25	Providing & fixing C.I Cover & Frame 30" dia (765 mm) weight 3 cwt (152.41 Kg.)	1 Nos			Each	
26	Providing G.I. pipes, specials and clamps etc., including fixing cutting and fitting complete with and including the cost of breaking through walls and roof, making good etc., painting 2 coats after cleaning the pipe etc.; with white zinc paint with pigment to match the colour of the building and testing with water to a pressure head of 200 feet (61 M) and cartages within 10 miles (16.09 km.) (IILM)					
a	3/4" Ø (20 mm) dia.	23 Rft			P.Rft	
b	1" Ø (25mm) dia.	1,080 Rft			P.Rft	

27	Providing and fixing of uPVC Trap for Water Closet P or S type complete with ring	24 Each			Each	
28	Providing and fixing 1 inches (25 mm) dia full way gun metal valves with wheels threaded or flanged ends with rubber washers, (standard pattern)	134 Each			Each	
29	--do-- but 1-1/4" (32mm) dia	27 Each			Each	
30	--do-- but 2-1/2" (65mm) dia	9 Each			Each	
31	P/F Fire Extinguishers 5 kg capacity filled with carbon dioxide operated using the PASS technique (Pull, Aim, Squeeze, Sweep). Key types include ABC Dry Chemical for general home use, CO ₂ for electrical fires, and Water or Foam for organic materials complete as directed	48 Each			Each	

Total

SH:- 4-C Construction of Boundary Wall

1	Clearing jungle (dense) by cutting, removing all shrubs, trees, upto 6 inches (152 mm) girth, etc. and taking out their entire roots and filling the hollows with earth complete with dressing, consolidating and watering the filling including stacking the serviceable materials and disposal of useless material as directed, lead to 10 chains (305 Rm), cost of earth included.	44,400 Sft			100 Sft	
2	Dismantling cement concrete block masonry work in lime or cement mortar in foundation, basement, plinth and ground floor including stacking salvaged material (serviceable) and disposing of surplus material as directed with in three chains	7,104 Cft			100 Cft.	
3	Excavation for foundation trenches in all kinds of soil and back filling the excavated material in foundation, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead upto one chain and lift upto 5 feet.	10,752 Cft			100 Cft	
4	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 1 inch and down gauge in foundation including levelling, compacting and curing etc.complete.	1,716 Cft			100 Cft	
5	P/L RCC using crushed graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in column footing of required shape including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth	2,442 Cft			100 Cft	
6	--- do --- but in columns of square or rectangular shape of r	336 Cft			100 Cft	

For P.A.A

7	--- do --- but in plinth beams of required shape and design in	720 Cft			100 Cft	
8	--- do --- but in columns of square shape of regular section	1,344 Cft			100 Cft	
9	Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or m.s. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under- ground tanks and in projections for future extension	13,119 Kg			P.Kg	
10	P/Fixing of 25mm Thermosole sheet in cavity of RCC Pillars including the cost of cutting, wastage, cartage etc. complete as directed in any Floor	154 Sft			Sft	
11	P/L 1:3:6 Machine Made C.C. solid block masonry 4 to 6 inches thick using graded screened bajri 3/4 inch and down gauge set in cement sand mortar 1:6 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure.	5,300 Cft			100 Cft	
12	P/L in situ 1:2:4 cement concrete using crushed graded boulders 3/4 inch and down gauge in architraves, coping and cornice etc. of required shape in superstructure including compacting, curing, cost of form work and its removal etc., complete in ground floor	370 Cft			100 Cft	
13	1/2" thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, and curing etc., complete.	31,604 Sft			100 Sft.	
14	Providing and fixing M. S. tees, angles and flats including welding all the sides of the section at the junction, gusset plates, bolts, nuts etc. complete with hoisting and erecting in position in steel trusses, frames, towers etc. of any design in ground floor...	1,094 Kg			P-KG	
15	Providing and fixing galvanized iron barbed wire fencing (with two points) to the posts of any description complete with hooks and binding wire etc. if required (cost of posts not included).	270 Kg			P-KG	
16	Providing & fixing G.I Razor wire 18 gauge 1.6" dia at 6" center to center with double razor and 1/4 inch dia G.I wire bars at top and bottom etc complete completed as per direction of Engineer incharge	1,005 Kg			P-KG	
17	Providing & fixing steel gate of required sections of approved design with or without M.S. sheet covering i/c hold fasts, with or without rollers and track arrangement, wicket shutter of required size with all accessories and locking arrangement complete as per direction of the Engineer in-charge	655 Kg			P-KG	



18	Painting iron work with synthetic enamel paint of approved make & shade two coats over and including the cost of priming coat complete at any height in any floor	859 Sft			100 Sft	
19	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor	31,604 Sft			100 Sft	
					Total	
SH:- 4-D Electric Work						
1	Providing & fixing basic batten, surface type, fitting complete with LED Tube Light 1 x 16 watts, T8, 4 feet Philips make as Philips Cat.	280 Nos			Each	
2	Providing and installation 140cm (56") ceiling fan with blades, canopy, stranded length of down rod including connection with 14.0076 flexible wire complete as reqd (Without regulator)	145 Nos			Each	
3	Providing & installing 30 Cm (12") sweep, metal body Exhaust fan complete with blades, motor, etc fitted in existing hole including connection with 14.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	20 Nos			Each	
4	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(E15 Clipsal make)	170 Nos			Each.	
5	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	80 Nos			Each.	
6	Wiring for light, fan or call bell point with 1.5mm ² PVC insulated wire in (20mm) 3/4" dia PVC conduit recessed in the wall or column including 1mm ² single core, PVC insulated wire as ECC as required	600 Pts			P.Pt	
7	Wiring for sub-main with 2 core, 2.5mm ² PVC insulated cable in 20mm (3/4") PVC conduit recessed in the roof, wall & column including 1.5 mm ² single core, PVC insulated wire as ECC as required.	17,800 Rft			P.Rft	
8	Wiring for sub-main with 2 core, 6mm ² PVC insulated cable in 25mm (1") PVC conduit recessed in the roof, wall & column including 2.5 mm ² single core, PVC insulated wire as ECC as required.	2480 Rft			P.Rft	
9	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 04 Nos, fan dimmer - 01 No, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	140 Nos			Each	

10	Providing & fixing 10 Amps 5 Gang holes sheet (switch - 04 Nos, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	15 Nos			Each	
11	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 06 Nos) fixed on wooden board, recessed in wall or column including connection as required.	12 Nos			Each	
12	Providing & fixing 10 Amps 1 Gang holes sheet (switch - 01 Nos) fixed on wooden board, recessed in wall or column including connection as required.	5 Nos			Each	
13	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 2 Nos – 32 Amps, SP, MCB, Icu 6kA 8 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	34 Jobs			P.Job	
14	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 6 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	2 Jobs			P.Job	
15	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 1 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	2 Jobs			P.Job	
16	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 3 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	6 Jobs			P.Job	
17	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 4 Nos – 32 Amps, SP, MCB, Icu 6kA 16 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	1 Jobs			P.Job	

18	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 16 No. – 63 Amps, SP, MCB, Icu 6kA 1 Nos – 125 Amps, TP, MCCB, Icu 25kA 01 set Bus Bar 250 A 01 Set – Phase indication lamps (R.Y.B)	2 Jobs			P.Job	
19	Providing and laying 4 core, 10 mm ² insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, armoured in 25 mm (1") dia uPVC conduit with 6mm ² as ECC as per Pak. P.W.D specification as required.	300 Rft			P.Rft	
20	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 2 Nos – 125 Amps, TP, MCCB, Icu 25kA 01 Nos – 250 Amps, TP, MCCB, Icu 25kA 01 Nos- 50A TP HBC MCCB 01 set Bus Bar 400 A 01 Set – Phase indication lamps (R.Y.B)	1 Jobs			P.Job	
21	Providing, installation, Testing & Commissioning of 100 Watts Flood Lights (Ip65) including driver, having cool white colour, 90-110 lm/watt efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by Engineer incharge	15 No			Each	
22	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos- 50A TP HBC MCCB 03 Nos- 16 A SP MCB 01 Set – Phase indication lamps (R.Y.B)	1 Jobs			P.Job	
23	Providing and fixing manual operated star delta starter suitable for 5-10 HP AC 3-phase 50 Hz supply upto 12/20 A trip rating on a prepared board.	1 No			Each	
24	Providing and fixing centrifugal pumping set complete with 5 HP 2850/2900 RPM 380/400 V 50 Hz 3 phase IE 2 classification AC motor with centrifugal pump having suction and discharge 2 x 1 1/2 coupled on a common base plate as approved by the engineer incharge. add 25% enhancement	1 No			Each	
					Total	

SH:- 4-E HVAC Work						
1	Providing, Installation, Energization ready for operating split type wall mounted 02 TR (24,000 BTU/Hr) capacity Air-Conditioner inverter, T3 type, charged with R-410 in the specified place. The job includes positioning, installation of indoor and outdoor unit at roof top of building on given MS frame with rubber foundation, nut/bolt including all interconnections for refrigerant piping, drain piping, electrical wiring, control wiring etc. Job also include Pressure testing with Nitrogen gas, leak detecting, vacuuming and top-up by charging refrigerant up to required level in the system i/c testing/commissioning of unit as per manufacturer recommendation and as per instruction of Engineer Incharge complete in all respect.	54 Job			Job	
2	Providing, Installation, Energization ready for operating split type Floor Standing 2- TR (24,000 BTU/Hr) capacity T-3 rating, inverter Air-Conditioner unit charged with R-410a as per schedule in the specified place. The job includes positioning, installation of indoor on wooden platform and outdoor unit at roof top of building with rubber foundation, nut/bolt including refrigerant piping, drain piping, electrical wiring, control wiring interconnections as per instruction of engineer incharge complete in all respect.	10 Job			Job	
3	Providing & fabrication of M.S material angle iron frame for outdoor units of 02 TR wall mounted split A.C unit i/c cutting,welding of frame. Job includes 01 coat of red oxide paint & 02 coat of enameled paint as per instruction of Engineer Incharge	54 Job			Job	
4	Providing & fabrication of M.S material angle iron frame for outdoor units of 02 TR floor standing type A.C unit i/c cutting,welding of frame. Job includes 01 coat of red oxide paint & 02 coat of enameled paint as per instruction of Engineer Incharge	10 Job			Job	
5	Providing installation,testing and commissioing of refrigerant copper pipe 3/8" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation,wrapping tape,etc complete in all respect as approved by the engineer incharge. Engineer Incharge.	1920 RFT			RFT	
6	Providing installation,testing and commissioing of refrigerant copper pipe 5/8" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation,wrapping tape,etc complete in all respect as approved by the engineer incharge. Engineer Incharge.	1920 RFT			RFT	
7	Providing & fixing of 6 to 32 Amps S.P MCCB fixed on existing board i/c inter connection as required.	64 Each			Each	
8	Wiring for sub-main with 4 core 4 mm ² standard copper conductor, PVC insulated and PVC sheathed circular/flat cable i/c 2.5 mm ² single core PVC insulated ware as ECC in 30 mm (1 1/4") dia UPVC conduit fitted on surface as required.	1800 Mtr			Meter	

9	Providing and fixing of 1 " dia CPVC SCH 80 pipe for drain line with elbow, sockets, bends and unions from unit to main hole as per instruction of Engineer Incharge.	500 Mtr			Meter	
10	Wiring for sub-main with 3 core 2.5 mm ² standard copper conductor, PVC insulated and PVC sheathed circular/flat cable l/c 1.5 mm ² single core PVC insulated wire as ECC in 25 mm (1") dia UPVC conduit fitted on surface as required.	1250 Mtr			Meter	
					Total	
SH:- 4-F Furniture						
1	Providing and installation at site Single Beds (78"x 42" x18" Size) structure made of solid Acacia wood and shesham veneer sheet, all exposed edges covered with Solid wood gola. Both end boards made of 2" thick solid acacia wood with shesham veneer panel, Head board height 36" inches & Foot board height 24" Bed long arms made of Acacia solid wood 1.5" thick and 5" wide. Bed base will be covered with solid wood frame and MDF Sheet (16mm or above) including laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work including 6 inches thick Matress (Molty Foam or equivalent) complete as directed .	216 No			Each	
2	Providing and installation at site Bed Side Table (24"x 18"x 18" Size) structure made of solid seasoned Acacia wood and shesham veneer sheet, having one open shelf and one drawers operated with best quality runner / chanel and locking arrangement including laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed	216 No			Each	
3	Providing and installation at site Study Table (SIZE ; 48"x18"x30") frame made of solid seasoned shesham wood with veneered sheet top 2" thick having two drawers operated with best quality runner / chanel and locking arrangement, table top made of 2" thick veneered wood with victorian profile including cost of study Chair made of sheesham wood with premium quality fabric of approved quality and shade integrated with moulded foam large seat have fire retarding properties. Seat back should be covered with high quality Nylon Mesh and PU base fixed with seat and arms .Soft Pu arms with provision of fixing with back and seat, hydraulic, gas tilt, lockable tilting mechanism. Nylon fiber base, PU coated caster Complete as directed	216 No			Each	
4	Providing and installation at site Wooden Almirah (SIZE; 42"x20"x72") (Double Door) made of solid Shesham wood frame and covered with 19mm thick veneer pressed lasani sheet, having Partition and adjustable shelves of same sheet. incl cost of handles, locking arrangement and other brass mongery etc. cost of laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed	106 No			Each	

5	Providing and installation at site Dressing Table of Size; 42" X 18" X 30" structure made of shesham veneer sheet and solid seasoned Shesham wood, having Six drawers operated with best quality runner / channels and locking arrangement. edges covered with solid wood lipping. including cost of mirror panel 36"x48" made of 19mm sheesham veneered sheet fixed on sheesham wooden battens front covered with 5mm looking mirror with aluminum / PVC angle lipping on mirror edges incl cost of laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed	96 No			Each	
6	Providing and installation at site TV Tables of size 72"x18"x36" Size (Officer Room) structure made of 19mm shesham veneer sheet and solid seasoned shesham wood, having one drawer operated with best quality runner / channels and locking arrangement. and two cabinets with glass door with push type self closer. solid wood lipping on edges. incl cost of laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed	24 No			Each	
7	Providing and installation at site 3 Seater Sofa of size 7'-9" x 2'-9" x 2'-7" structure made of solid shesham / acacia wood and commercial ply, seat and backrest covered with best quality foam and premium quality fabric / leathride of approved quality and shade with polish finish to exposed wooden surfaces. complete as directed.	24 No			Each	
8	Providing and installation at site Centre Table 48"x 24"x 17" made of 19mm thick pressed veneered board, base and legs made of solid shesham wood treated with termite proofing in approved design, top made of veneer and inlay pressed on top as a border and cross lining in middle incl cost of laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed .	10 No			Each	
9	Providing and installation at site 5 Seater Sofa set consisting of 1 No 3 seater sofa of size 7'-9" x 2'-9" x 2'-7" and 02 No single seater sofa of size 3'-6"x2'-10"x2'-3" structure made of solid shesham / acacia wood and commercial ply, seat and backrest covered with best quality foam and premium quality fabric / leathride of approved quality and shade with polish finish to exposed wooden surfaces. complete as directed.	10 No			Each	
10	Providing and installation at site Dining Table of size 48"x48"x30" structure made of solid shesham wood with 2" thick top Cross veneer and traditional inlay work, base made of Solid shesham wood, legs should be 75mm thick from base incl cost of 04 Nos dining chairs structure made of solid seasoned shesham wood all treated with termite treatment. , seat upholstered with best quality imported patti and master molty foam covered with best quality fabric. seat back made of solid shesham wood with polish finish to exposed wooden surfaces. complete as directed.	35 No			Each	
11	Providing and installation at site Office Tables 60"x30"x30" structure made of 19mm MDF pressed sheet edges covered with 2mm thick PVC lipping all parts should be jointed with KD fitting, top made of 38mm thick and covered with PVC edging including cost of side racks 42"x18"x30" having	2 No			Each	



	6 drawers and one key board tray in middle complete with polishing in required shade as directed					
12	Providing and installation at site office chair PU material seat top covered with moulded foam and premium woven net fabric and back cushion have fire retarding properties laminated over 3D molded ply shell vinyl backing Soft PU arms with hydraulic /gas tilt, lockable tilting mechanism. Nylon fiber base, complete as directed	4 No			Each	
13	Providing and installation at site Chairs with cushion Medium Back Seat Structure to be made of 5mm thick best quality plywood mounted over a seasoned solid Shesham wood structure, the chair is to be upholstered with high quality Master Molty foam & covered with imported leatherette. seat and back should be tufted. Legs should be 60 mm thick and in solid seasoned shesham wood, The Armrests and all open parts made of solid seasoned shesham wood and stained in Natural and clear lacquered in UV finish (2k, poly urethane finish and has scratch resistant. all as directed	50 No			Each	
14	Providing and installation at site Table tennis of size 2740mmx1525mmx760mm Structure made of MS powder coated Pipe top made of 19mm thick MDF veneered sheet with net and rackets complete as directed	6 No			Each	
15	Providing and installation at site Snooker Table of size 12ftx6ftx2.50ft structure made of solid wood and top made of 25mm granite slab covered with premium fabric complete as directed	3 No			Each	
					Total	

TENDER FOR WORKS

I / We hereby tender for the execution of the work specified in the above written memorandum within the time specified in each memorandum at the rates specified therein, and in accordance in all respects, with the specifications, designs, drawings and instructions and with such materials as are provided for by and in all other respects in accordance with such conditions so far as applicable.

2. Should this tender be accepted, I/We here by agree to abide by and fulfill all the terms and provisions of the said conditions of contract annexed hereto so far as applicable or on default thereof to forfeit and pay to the Pakistan Airports Authority the sum of money mentioned in the said conditions.

3. A Bank Draft/ Pay Order for the sum of Rs. _____ Is here with forwarded as Earnest Money.

Dated the _____ day of _____ 20____

Witness

Address

Signature of Contractor

The above tender is here by accepted by me on behalf of PAA

Dated the _____ day of _____ 20____

Signature of Officer by whom accepted

(On appropriate valued non-judicial stamp papers)

FORM OF AGREEMENT

THIS AGREEMENT is made on this the _____ day of _____ 20____ between the Pakistan Airports Authority, established under the Pakistan Airports Authority Ordinance, 2023, having its Head Office at Terminal-I, JIAP, Karachi, through its duly authorized officer (hereinafter called the client 'PAA' which term shall include its successors-in-interest, authorized representatives and executors) of the First Part:

A N D

M/s. _____
Incorporated/registered with _____ as a limited
Company/Partnership/Sole proprietor, having its office at _____
"through its duly authorized person namely _____
(designation) hereinafter called "the Contractor" (which term shall include its successors-in-interest, authorized
representatives and executors of the Second Part:

WHEREAS the PAA is desirous that certain works should be executed viz Construction of
_____ i.e. the works.

AND WHEREAS the PAA has accepted the Tender dated _____ submitted by the
Contractor for the execution completion and maintenance of the Works.

NOW this Agreement Witnesses as follows:

1. In this agreement words and expressions shall have the same meanings as _____ pre-respectively
assigned to them in the Conditions of Contract hereinafter referred to.

2. The following documents which for the purpose of identification have been signed by
Mr. _____ (_____) on behalf of the Contractor and by
Mr. _____ (_____) on behalf of the PAA, all of which shall be deemed to form
and be read and construed as part of this Agreement viz:

- a) This Tender.
- b) The Drawings.
- c) The General conditions of Contract.
- d) The Special Conditions of Contract (if attached).
- e) The Specifications.
- f) The Schedule of Quantities.
- g) Letter of acceptance of Tender.

In case of any difference between the General or Special Conditions, the Special Conditions shall prevail.

3. In consideration of the payments to be made by the PAA to the Contractor as hereinafter mentioned, the
Contractor hereby covenants with the PAA to duly execute complete and maintain the Works in conformity in all
respects with the provision of the Contract and of a high standard.

4. The PAA hereby covenants to pay to the Contractor in consideration of due execution, completion and
maintenance of the Works, the Contract Price in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties have hereunto set their respective hands and seals the day and year first
above mentioned.

Signed. Sealed and delivered by the

For and on behalf of Contractor

For and on behalf of PAA

C.N.I.C.No. _____

WITNESSES:

1. _____

C.N.I.C. No. _____

2. _____

C.N.I.C.No. _____

PAKISTANAIRPORTSAUTHORITY

GENERALCONDITIONSOFCONTRACT

DEFINITIONS:

In the Contract (as hereinafter defined) the following words and expressions shall have the meanings assigned to them except where the context otherwise requires:

- 1.1 "PAA" means Pakistan Airports Authority and includes its duly authorized agents, successors and assigns.
- 1.2 "Contractor" means the person or persons, firm or Company whose Tender (as hereinafter defined) has been accepted by PAA and includes the Contractor's personal representatives, successors and permitted assigns, but does not include any sub-contractor.
- 1.3 Senior Works Engineer means an Engineer dully authorized by the PAA for execution of work.
- 1.4 "Representative of Senior Works Engineer" means any duly authorized officer or officers appointed by the PAA to perform the duties set forth.
- 1.5 The expression "Works" means all the works specified or set forth and required in and by the said specifications, drawings and schedule hereto or to be hereafter specified or required in such explanatory instructions and drawings and also in such additional Instructions and drawings as such from time to time, during the progress of the work hereby contracted or, be supplied by PAA.
- 1.6 "Contract" means the Conditions of Contract specifications, Drawings, priced schedule of Quantities, Tender and the Contract Agreement.
- 1.7 "Contract Price" means the sum given in the tender subject to such additions thereto or deductions there from as may be made under the provisions hereinafter contained.
- 1.8 "Construction Plant" means all appliances, equipment or things of whatsoever nature required in or about the execution, completion or maintenance of the Works or Temporary works.
- 1.9 "Temporary Works" means all temporary works of every kind required in or about the execution completion or maintenance of the work.
- 1.10 "Drawings" means the drawings referred to in the Specifications and any modifications of such drawings approved in writing by the Manager and such other drawings as may from time to time be furnished or approved in writing by the Senior Works Engineer.
- 1.11 "Site" means the lands and other places on, under, in, through which the works are to be executed or carried out and any other lands or places provided by the PAA for purposes of the Contract.

- 1.1 "Approved" means approved in writing including subsequent written confirmation of previous verbal approval and "Approval" means approved in writing including as aforesaid.
- 1.2 "Tender" means the offer tendered by the Contractor for the works governed by the Contract and includes all documents annexed to the offer.
- 1.3 Competent authority means officer of PAA under whose competence the acceptance of tender lies.

2. Extent of Contract

The Contract comprises the construction, Completion and maintenance of the Works and except in so far as the Contract otherwise provides, the provision of all labour, materials, construction plant, temporary works and everything whether of temporary or permanent nature required in and for such construction, completion and maintenance so far as the necessity for providing the same as specified in or reasonably to be inferred from the Contract.

3. Documents Mutually Explanatory

The several documents forming the Contract are to be taken as mutually explanatory of one another and in case of ambiguities or discrepancies, the same shall be explained by the Divisional Engineer whose explanation in this respect shall be final.

4. Sufficiency of Tender

The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his Tender for the works and of the rates and prices stated in the priced schedule of Quantities which rates and prices shall except in so far as otherwise provided in the Contract cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.

5. Inspection of Site

The Contractor shall inspect and examine the Site and its surroundings and shall satisfy himself before submitting the tender, as to the nature of ground and sub soil, the form and nature of the Site, the quantities and nature of the work and materials necessary for the completion of the works and the means of access of the Site, the accommodation he may require and in general shall himself obtain all necessary information as to risk, contingencies and other circumstances which may influence or affect his Tender.

6. Possession of Site

The Divisional Engineer will with the written order to commence the works give to the Contractor possession of the Site as may be required to enable the Contractor to commence and proceed with the construction of the works in accordance with the program referred to in clause 10 hereof and otherwise in accordance with such reasonable proposals of the Contractor as he shall by notices in writing to the Divisional Engineer make and will from time to time as the works proceed give to the Contractor possession of such further portions of the Site as may be required to enable the Contractor to proceed with the construction of Works with due diligence in accordance with the said program or proposals (as the case may be).

7. Drawings

Three copies of each of the approved Drawings shall be furnished by Pakistan Airports Authority to the Contractor free of cost. The Contractor shall provide and make at his own expense any further copies required by him.



- 8. Drawings to be kept on Site** One copy of each of the Drawings furnished to the Contractor as aforesaid shall be kept by the Contractor on the Site and the same shall at all times be available for inspection and use by the Senior Works Engineer the representative of the Executive Engineer.
- 9. Further Drawing and instructions** The Senior Works Engineer shall have full power and authority to supply to the Contractor from time to time during the progress of the works such further Drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and maintenance of the works and the Contractor shall carry out and be bound the same.
- 10. Program to be furnished** As soon as practicable after the acceptance of his Tender the Contractor shall submit to the Senior Works Engineer for his approval a programme showing the order of procedure and method in which he proposes to carry out the Work and shall furnish for his information, particulars in writing of the Contractor arrangements for carrying out of the works and the constructional plant and temporary works which the Contractor intends to supply, use or construct, as the case may be The submission to and approval by the Senior Works Engineer or the Representative of the Senior Works Engineer of such programme or the furnishing or such particulars shall not relieve Contractor of any of his duties or responsibilities under the Contract.
- 11. Commencement** The Contractor shall commence the Works on Site after the receipt by him of an order in writing to commence work from the Senior Works Engineer and shall proceed with the same with due diligence (time being the essence of the Contract on the part of the Contractor).
- 12. Contractor's Superintendence** 12.1 The Contractor shall give or provide all necessary superintendence during the execution of the Works and as long thereafter as the Manager may consider necessary for the proper fulfilling of the Contractor's obligations under the Contract. The Contractor or his competent, qualified and authorized agent or representative approved by the Senior Works Engineer in writing (which approval may at any time be withdrawn) is to be constantly on the Works and shall give his whole time to the superintendence of the same if such approval shall be withdrawn by the Senior Works Engineer the Contractor shall without any delay, after receiving written notice of such withdrawal, remove the Agent from the site and shall not there after the employ him again on the Site in any capacity and shall replace him by another agent approved by the Officer, Such authorized agent or representative shall receive, on behalf of the Contractor directions and instructions from the Senior Works Engineer or the representative of the Senior Works Engineer.
- 12.2 The Contractor shall also employ full time Engineer/Sub-Engineer, duly qualified in Civil/Electrical/Mechanical/Air-conditioning Engineering and having professional experience of at least five years for the purpose of execution of the proposed works and giving full time technical superintendence during all phases of execution and for receiving technical directions and instructions from Employer's Senior Works Engineer.

(PPRA) X
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For P.A.A.

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For Contractor

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13. Contractor's Employees

The Contractor shall provide and employ on the Site in connection with the execution and maintenance of the Works:-

13.1 Only such technical personnel as are skilled and experience in their respective fields and such sub-agents, foremen and leading hands as are competent to give proper supervision to the work they are required to supervise.

13.2 Such skilled and semi-skilled and unskilled labour as is necessary for the proper and timely execution and maintenance of the Works.

14. Removal of Contractor's Employees

The Divisional Engineer shall have the power to object in writing to and require the Contractor to remove forthwith from the Work any person employed by the Contractor in or about the execution or maintenance of the works who in the opinion of the Divisional Engineer misconducts himself or is incompetent or negligent in the proper performance of his duties or whose employment is otherwise considered by the Divisional Engineer. Any person so removed from the works shall be replaced without delay by a competent substitute approved by the Divisional Engineer. The Contractor shall not be demand the reasons from the Divisional Engineer for requiring the removal of any one of his employees.

15. Supply of Plant Materials and Labour

Except where otherwise expressly specified, the Contractor shall at his own expense supply and provide all the Constructional plants, work materials, both for temporary and for permanent works, labour (including the supervision thereof) transport to or from the site and in and about the works and other things of every kind required for the construction, completion and maintenance of the works.

16. Works to be executed in accordance with specifications drawings etc.

The Contractor shall execute the whole and every part of the work in the most substantial and workman-like manner and both as regards materials and otherwise in every respect in strict accordance with the specifications. The Contractor work shall also conform exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work issued by the Divisional Engineer.

17. Action where no specification

In the case of any class of work for which there is no such specifications, such work shall be carried out in accordance with the written instructions, and requirements of the Divisional Engineer.

18. Quality of Material and Workmanship and Tests

All materials and workmanship shall be of the respective kinds described in the Contract and in accordance with the Divisional Engineer instructions and shall be subjected from time to time to such tests as the Divisional Engineer may direct at the place of manufacture or fabrication on the Site or at all or any of such places. The Contractor shall provide such assistance, instruments, machines, labor and materials as are normally required for examining, measuring and testing any work and the quality, weight or quantity of any materials used and shall supply samples of materials before 5

incorporation in the works for testing as may be selected and required by the Divisional Engineer.

- a) All samples shall be supplied by the Contractor at his own cost.
- b) The cost of making all tests specified in the Contract shall be borne by the Contractor.



For P.A.A.

For Contractor

19. Delegation of Power to Senior Works Engineer's Representatives.

The Senior Works Engineer may from time to time in writing delegate to the representatives of the Senior Works Engineer any of the powers and authorities vested in the Senior Works Engineer. Any written instruction or approval given by the representative of the Senior Works Engineer to the Contractor with in the term of such delegation (but not otherwise) shall bind the Contractor and the Pakistan Airports Authority as though it has been given by the Senior Works Engineer provided as follow:

- Failure of the representative of the Senior Works Engineer to disapprove any work or materials shall not prejudice the power of the Senior Works Engineer thereafter to disapprove such work or materials and to order the pulling down, removal or breaking up thereof.
- If the Contractor shall be dissatisfied by reason of any decision of the representative of the Senior Works Engineer he shall be entitled to refer the matter to the Senior Works Engineer who shall thereupon confirm, reverse or vary or modify such decision, and whose decision shall be final.

21. Access to Site

- The Agreement shall be rescinded by the PAA and the final measurements shall be recorded by the Senior Works Engineer or his any authorized representative shall record the final measurement and Contractor will not claim for any item not recorded by the Senior Works Engineer or his representative.

The Senior Works Engineer and any person authorized by him shall at all times have access to the Works and to the Site and to all Workshops and places where work is being done or where materials, manufactured articles or machinery are being obtained for the Works and the Contractor shall afford every assistance in or obtaining the right to such access.

22. Way leave etc.

The Contractor shall bear all expenses and charges for special or temporary way leaves required by him in connection with access to the Site. The Contractor shall also provide with the written approval of Senior Works Engineer at his own cost any reasonable additional accommodation at Site required by him for the purposes of the Works.

23. Rate of Progress and permission to work during Night.

The whole of the materials, plant and labour to be provided by the Contractor and the mode, manner and speed of execution and maintenance of the works are to be of a kind and conducted in a manner approved by the Senior Works Engineer. Should the rate of progress of the Works by or any part thereof be at any time in the opinion of the Senior Works Engineer too slow to ensure the completion, the Senior Works Engineer shall so notify the Contractor in writing and the Contractor shall thereupon take such steps as may be necessary and the Senior Works Engineer may approve to expedite progress so as to ensure completion. If the work is not being carried out within the prescribed or extended time and the Contractor requests permission to work at night as well, then, if the Senior Works Engineer shall grant such permission, the Contractor shall not be entitled to any additional payment, for doing so any such permission granted shall be at the risk of the Contractor.

24. Time for Completion

Subject to any requirement in the Specification of any portion of the Works before completion of the whole of the works, the whole work shall be completed within the stipulated time.

24. Extension of time for Completion

Should the amount of extra or additional work of any kind or other special circumstances of any kind whatsoever which may occur be such as fairly to entitle the Contractor to an extension of time for the completion of the work the Divisional Engineer shall determine and grant amount of such extension. Provided that the Divisional Engineer is not bound to take into account any extra additional work or other special circumstances unless the Contractor has within 30 days after such work has been commenced or such circumstances have arisen, delivered to the representative of the Divisional full and detailed particulars of any claim for extension of time to which he may consider himself entitled in order that such claim may be investigated at the time.

25. Termination of Contract for slow progress

If in the opinion of the Divisional the progress of the Works is slow that it cannot be completed within the prescribed period or within the extended period granted to the Contractor, the Divisional Engineer shall give a notice in writing to the Contractor calling upon him to speed up the work by employing more labor and by increasing the material, equipment and plant to an extent to be mentioned in the notice. In case the Contractor fails to comply with the requirements of the notice within ten days from its issue, the Divisional Engineer shall have the power to have the works completed through any other agency at the risk and cost of the Contractor. In any such event, the work executed by the Contractor shall be measured up and all plant, machinery, equipment and material at Site will be taken over by the Divisional Engineer after preparing and inventory thereof, such stores to be used for the completion of the work will be at the cost of the Contractor. All payments due to the Contractor shall be withheld till the completion of the work and any loss suffered by the Pakistan Airports Authority or expenditure incurred in getting the works executed, shall be recovered from the Contractor.

26. Action and Compensation payable in case of works below specification

If it shall appear to the Divisional Engineer or his representative in charge of the work, that any work has been executed with unsound, imperfect or unskilled workmanship or with materials of any inferior description or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract, the Contractor shall on demand in writing from the Divisional Engineer specifying the work, materials or articles complained of notwithstanding that the same may have been in advertently passed, certified and paid for, forth-with rectify, or remove and reconstruct the work so specified and provide other proper and suitable materials or articles at his own cost; and in the event of his failing to do so with in a period to be specified by the Divisional Engineer in his demand aforesaid, then the Contractor shall be liable to pay compensation at the rate of one percent on the total cost of work for every day not exceeding ten days apart from the cost of rectification, while his failure to do so, shall continue and in the case of any such failure the Divisional Engineer may rectify or removed, and re-executed the work which may include additional work necessary to strengthen or set right the unsound work carried out by the Contractor or remove and replace with others, the materials or articles complained of as the case may be at the risk and expense of the Contractor in all respect.

27. Security Deposits

27.1 The Contractor shall permit the Pakistan Airports Authority at the time of making any payment to him for work done under the contract to deduct such sum as will amount to be 5% of all money so payable; such deductions to be held by Pakistan Airports Authority by way of security deposit.



27.2 The sum five percent (5%) of the amount of the bills including the earnest money held by the Pakistan Airports Authority by way of security deposit shall be paid back to the Contractor after the satisfactory expiration of Maintenance period as in Clause No.49.

28. Forfeiture of Security deposit

In any case in which under any clause, or clauses of this agreement the Contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit (whether paid in one sum or deduction by installments) the Pakistan Airports Authority shall have the power in its own discretion to adopt any of the following courses, best suited to the interest of the Pakistan Airports Authority.

- a) To rescine the Contract (of which recession notice in writing by the Senior Works Engineer to the Contractor shall be conclusive evidence) and in which case the security deposit of the Contractor as available with the Pakistan Airports Authority shall stand forfeited and be absolutely at the disposal of Pakistan Airports Authority.
- b) To employ labour paid by Pakistan Airports Authority and to supply materials to carry out the work or any part of the work debiting the Contractor with the cost of the labour and the price of the materials (of the amount of which cost and price a certificate of the Senior Works Engineer shall be final and conclusive against the Contractor) and crediting him with the new value of the work done, in all respect in the same manner and at the same rates as if it had been carried out by the Contractor under the term of his Contract, the certificates of the Senior Works Engineer as to the value of work done shall be final and conclusive against the Contractor.
- c) To measure up the work of the Contractor and to take such part thereof as shall be unexecuted out of his hand, and to give it to another Contractor to complete, in which case any expenses which may be incurred in excess of the sum which would have been paid to the original Contractor, if the whole work had been executed by him (of the amount of which exceed, the certificate in writing to the Senior Works Engineer shall be final and conclusive shall be borne and paid by the Contractor and may be deducted from any money due to him by the Pakistan Airports Authority under the contract or otherwise or from his security deposits, or the proceeds of sale thereof or a sufficient part thereof.

28.1 In the event of any of the above courses being adopted by the Pakistan Airports Authority, the Contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials, or entered into any engagements or made any advance on account of or with a view to the execution of the work or the performance of the Contract. And in case the contract shall be rescind, under the provision aforesaid, the Contractor shall not be entitled to recover or be paid any sum for any work thereto actually, performed under this contract. Unless and until the Senior Works Engineer will have certified in writing the performance of such work and the value payable in respect thereof, and he shall only be entitled to be paid the value so certified. Again the Contractor will not in any manner hinder or prevent the owner or Senior Works Engineer or any of the workmen and other employed by him from proceeding to complete the said buildings and works as aforesaid.

29. Liquidated damages for delay

If the Contractor fails to complete the works within the stipulated time thereof or extended time then the Contractor shall pay to the Pakistan Airports Authority as liquidated damages for such default and not as a penalty a sum equal to ten percent or less as the Divisional Engineer (whose decision in writing shall be final) may decide out to the total cost of the works. The Pakistan Airports Authority may without prejudice to any other method of recovery, deduct the amount of such damages from the bills of the Contractor to complete the works from his security deposits and earnest money.

30. Notice to be given before work is covered up

The Contractor shall give not less than five clear days notice in writing to the Divisional Engineer or his representative of the work before covering up or otherwise placing beyond the reach of measurement of any work, in order that the same may be measured as correct dimensions thereof be taken before the same is so covered up or placed beyond the reach of measurement without the consent in writing of Divisional Engineer or his representative in charge of the work; in order that the same may be measured and correct dimensions thereof be taken before the same is so covered up or placed beyond the reach of measurement without the consent in writing of Divisional Engineer or his representative in charge of the work; and if any work shall be covered up or placed beyond the reach of measurement without such notice have been given or consent obtained the same shall be uncovered at the Contractor's expense or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

31. Suspension of work

The Contractor shall on the written order of the Divisional Engineer suspend the progress of the works or any part thereof for such time or times and in such manner as the Divisional Engineer may consider necessary and shall during such suspension properly protect and secure the work so far as is necessary in the opinion of the Divisional Engineer. The extra cost (if any) incurred by the Contractor is giving effect to the Divisional Engineer instructions under this clause shall be borne by the Contractor, if such suspension is:-

- a) as per the provision of the contract.
- or
- b) Necessary for the proper execution of the work or by reason of weather conditions affecting the safety or quality or the Works or by some default on the part of the Contractor.
- or
- c) Necessary for the safety of the works or any part thereof.

32. Care of works

From the commencement to the completion of the Works the Contractor shall take full responsibility for the care thereof and of all Temporary Works and in case any damage loss or injury shall happen to the Works or to any part thereof or to any temporary works from any cause whatsoever (save and except) the "excepted risk" as defined in Clause shall at his own cost repair and make good the same so that at completion, the works shall be in good order and conditions and in conformity in every respect with the requirements of the contract and the Divisional Engineer instructions. The Contractor shall also be liable for any damage to the Works occasioned by him in the course of any operations carried out by him for the purpose of complying with his obligations under Clause 50 hereof.

- 33. Expected Risk** The "Expected Risk" are hostilities (where war be declared or not) invasion, act of foreign enemies, rebellion revolution insurrection or military or usurped power civil war or (otherwise than among the Contractor's own employees) riot, commotion or disorder or use or occupation by the PAA of any portion or the Works in respect of which a Certificate of completion has been issued or any such operation of the Forces of nature as responsible foresight and ability on the part of the Contractor could not foresee or reasonably provide against (all of which are herein collectively referred as "the excepted risk").
- 34. Damage to persons and property.** The Contractor shall (except if and so far as the specification provides otherwise) indemnify and keep indemnified the PAA against all losses and claims for injuries or damage to any person or any property whatsoever (other than surface or other damage to land or crops being on the Site suffered by tenant or occupiers) which may arise out of or in consequence of the construction and maintenance of the works and against all claims, proceedings, damages, cost charges and expenses whatsoever in respect thereof or in relation thereto.
- 35. Accident or injury to Workmen** The PAA shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workmen or other persons in the employment of the Contractor and the Contractor shall indemnify and keep indemnified the PAA against all such damages, compensation and against all claims, demands, proceedings, cost charges and expenses whatsoever in respect thereof or in relation thereto.
- 36. Insurance** The Contractor shall obtain and keep in force policies in respect of Erection All Risks, Contractor's. All Risks and Workmen's Compensation act, which shall apply specifically and solely to the Contractor and shall fulfill all Contractor's obligations for Insurance in connection with this contract from any of the "AA" rated Insurance Company from PACRA/ JCR.
- 37. Compliance with Statutes, Regulations etc.** The Contractor shall conform in all respects with the provision of any such Statute Ordinance of Law as aforesaid and the Resolutions or Bye-laws issued by local or other duly constituted authority which may be applicable to the Works or to any Temporary Works and with such rules and regulations of public bodies, and companies as aforesaid and shall keep the P.A.A indemnified against all penalties and liability of every kind for breach of any such statute Ordinance or Law Regulation or Bye-laws.

38. Fossils etc.

All Fossils, coins, article of value or antiquity and structures and other remains or things of geological or archaeological interest discovered on the site of the Works shall as between the PAA and the Contractor shall take reasonable precautions to prevent his workmen or any other persons from removing or damaging any such article or things and shall immediately upon discovery thereof and before removal, acquaint the Representative of the Divisional Engineer of such discovery.

39. Variation

The Divisional Engineer shall make any variation of the form, quality or quantity of the work or any part thereof that may in his opinion be necessary and for that purpose or if for any other reasons it shall in his opinion be desirable shall have power to order 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.
- c) Change the levels, lines position and dimension of any part of the Works and
- d) Execute additional work of any kind necessary for the completion of the works.

and no such variation shall in any way vitiate or invalidate the Contract nor will entitle the Contractor of any claim for compensation whatsoever, but the value (if any) of all such variations shall be taken into account in ascertaining the amount of the Contract Price.

40. Order for variation to be in writing

No such variation shall be made by the Contractor without an order in writing of the Divisional Engineer. Provided that no order in writing shall be required for increase or decrease in the quantity of any work where such increase or decrease is not the result of an order given under the clause but is the result of the quantities exceeding or decreasing than those stated in the schedule of quantities. Provided also that if for any reason Divisional Engineer shall consider it desirable to give any such order verbally, the Contractor shall comply with such order but shall get it confirmed in writing from the Divisional Engineer within four days of the issue of such verbal order.

41. Valuation of variation

- a) The Divisional Engineer shall determine the amount (if any) to be added to or deducted from the sum named in the Tender in respect of any extra or additional work done or work omitted by his order. All such work shall be valued at the rate set out in the Contract if in the opinion of the Divisional Engineer the same shall be applicable; if not on market rates.
- b) No deviation from specifications stipulated in the Contract or additional items of work shall be carried out by the Contractor unless the rates of the substituted, extra, altered or additional item have been approved in writing by the competent authority failing which the PAA will not be bound to entertain any claim on this account.

42. Quantities

The quantities set out in the schedule of quantities are the estimated quantities of the work but they are not to be taken as the actual and correct quantities of the works to be executed by the Contractor in fulfillment of his obligation under the Contract.

- 43. Work to be Measured** The Senior Works Engineer shall except as otherwise stated ascertain and determine by measurement the value of work done in accordance with the Contract. He shall when he requires any part of parts of the works to be measured, give notice to the Contractor's authorized agent or representative who shall forthwith attend or send a qualified agent to assist the Senior Works Engineer or the representative in making such measurement and shall furnish all particulars required by either of them. Should the Contractor not attend or neglect or fail to send such agent, then the measurement made by the Manager or approved by him shall be taken to be the correct measurement of the works.
- 44. Method of Measurement** The work shall be measured, notwithstanding any general or local custom except where otherwise specifically described or prescribed in the Contract.
- 45. Clearance of Site on Completion** On the completion of the Works, the Contractor at his own cost shall clear away and remove from the Site all Constructional plant, surplus materials, rubbish and Temporary Works of every kind and leave the whole of the Site and works clean and in a workman-like condition to the satisfaction of the Senior Works Engineer, rubbish should be disposed off in the manner as directed by the Manager.
- 46. Certificates of Completions of Works** As soon as in the opinion of the Senior Works Engineer, the works shall have been completed and shall have satisfactorily passed any test that may be prescribed by the Contract, he shall issue a Certificate of completion in respect of the Works and the period of Maintenance of the Works shall commence from the date of such certificate with respect to any part of the Works before the completion of the whole of the works and shall upon the written application of the Contractor give such certificate with respect to any substantial part of the Works which has been both completed to the satisfaction of the Senior Works Engineer and occupied or used by PAA and when any such certificate is given in respect of a part of the works, such part shall be considered as completed and the period of maintenance of such parts shall commence from the date of such certificate provided also that a certificate of completion given in accordance with the foregoing provisions of any part of the works occupied and used as aforesaid shall not be deemed to certify completion of any ground or surface requiring reinstatement unless such certificate shall expressly so state.
- 47. Maintenance & Definition Of maintenance** In these conditions the expression "Period of Maintenance" shall be 6 months for all kinds of works from the date of completion of the works certified by the Senior Works Engineer in accordance with Clause 46 hereof or in the event of more than one certificate having been issued by the Senior Works Engineer under the said clause from the respective dates so certified and in relation to the period of maintenance the expression "the works" shall be construed accordingly
- 48. Execution of Work of Repair etc.** To the intent that the works shall as soon as practicable after the expiry of the period of Maintenance be delivered to the PAA in as good and perfect condition (fair wear and accepted tear) to the satisfaction of the Senior Works Engineer as that in which they were at the commencement of the period of Maintenance. The Contractor shall execute all such work of repair, amendment, reconstruction, rectification and making good the defects, imperfections, shrinkages or other faults as may be required of the period of maintenance or within fourteen days after its expiry as a result of an inspection made by or on behalf of the Senior Works Engineer.

49. Refund of Security Deposits

The Security Deposit shall not be refunded before 12 months after the completion of the whole work, unless and until a certificate is issued by the Divisional Engineer for successful and satisfactory passing of the maintenance period with no other liability on the Contractor.

50. Contractor's Liability for Damage done

If the Contractor or his workmen or servants shall break, deface, injure or destroy any part of a building, in which they may be working or any building, road, road kerbs, runway, taxiway, apron, culverts, ducts, fence enclosure, water pipes, cables, drains, electric or telephone or wire poles, trees, grass or grassland or cultivated ground contiguous to the premises on which the work or any part of it is being executed, or if any damage shall happen to the work, while in progress from any cause whatsoever, or any imperfections become apparent in it within three months after a certificate final or other wise of its completion shall have been given by the Divisional Engineer as aforesaid the Contractor shall make the same good at his own expense, or in default, the Divisional Engineer may cause the same to be made good by other workmen, and deduct the expense (of which the certificate of the Divisional Engineer shall be final) from any sums that may then, or at any time thereafter may become, due to the Contractor, or from his security deposit or the proceeds of the sale thereof, or a sufficient portion thereof.

51. Assignment & Sub-Letting

The Contractor shall not assign or sublet the Contract or any part thereof or any benefit or interest thereon or there under without the prior written consent of PAA. In case of failure the Divisional Engineer shall by giving Notice in writing rescind the Contract.

52. Stores Supplies PAA

If the specification or estimate of the work provides for the use of any special description of materials to be supplied by PAA or if it is required that the Contractor shall use certain stores to be provided by the PAA (such materials and stores, and the prices to be charged therefore as hereinafter mentioned being so far as practicable for the convenience of the Contractor, but not so as in any way to control the meaning or effect of this Contract, specified in the schedule of memorandum hereto annexed). The Contractor shall be supplied with such materials and stores as required from time to time to be used by him for the purpose of the Contract only, and the value of the full quantity of materials and stores so supplied at the rates specified in the said schedule or memorandum may be set off or deducted from any sums then due, or thereafter to become due to the Contractor under the contract or otherwise or against or from the security deposit, or the proceeds of sale thereof. All materials supplied to the Contractor shall remain the absolute property of PAA and shall not on any account be removed from the Site of the work, and shall at all times be open to inspection by Divisional Engineer. Any such material unused and in perfectly good condition at the time of the completion of determination of the Contract shall be returned to PAA.

53. Bills to be submitted monthly

A bill shall be submitted by the Contractor each month if amount due is 5 million or more on or before the date fixed by the Divisional Engineer shall take or cause to be taken the requisite measurement for purposes of having the same verified, and the claim, as far as admissible, adjusted, if possible, before the expiry of ten days from the presentation of the bill. If the Contractor does not submit the bill within the time fixed as aforesaid, the Divisional Engineer may prepare a bill which shall be binding on the Contractor in all respects.



- 54. Completion drawings** The completion report of the work alongwith drawings on PAA prescribed proforma shall be submitted by the Contractors in five copies alongwith the final bill. In case of failure to submit the completion report and completion drawings by the Contractor on the basis of which the work has been finally completed, the final bill shall be withheld till their submission. The completion report and drawings should be complete in all respects. Works relating to maintenance do not come under the preview of this clause.
- 55. Final Bills** The final bill shall be submitted by the Contractor within one month from the date of completion of the work otherwise the Senior Works Engineer certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on all parties, and will not be called in question by any one.
- 56. Urgent repair** If by reason of any accident of failure or other event occurring to or in connection with the works or any part thereof during the Period of Maintenance any remedial or other work on repair shall in the opinion of the Senior Works Engineer or his representative is urgently necessary for security and the Contractor is unable or unwilling at once to do such work or repair, the Senior Works Engineer may be his own or other workmen do such work or repair as the Senior Works Engineer or his representative may consider necessary. If the work or repair so done by the Senior Works Engineer is work which in the opinion of PAA the Contractor was liable to do at it own expense, under the Contract, then all costs and charges properly incurred by the PAA. In so doing shall on demand be paid by the Contractor to the PAA or may be deducted by PAA from any money due or which may become due to the Contractor. Provided always that the Senior Works Engineer shall as soon as after the occurrence of any such emergency as maybe reasonably practicable notify the Contractor in writing thereof.
- 57. Bribes, Commission etc.** Any bribe, commission gift or advantage given promised or offered by or on behalf of the Contractor or his partner, agent or servant or any one on his or their behalf to any officer, servant, representative or agent of the PAA or any person on its behalf in relation to obtaining or to the execution of this or any other Contract with the PAA shall in addition to any criminal liability, which he may incur, subject the Contractor to cancellation of this and all other Contracts and also to payment of any loss or damage resulting from such cancellation. Any question or dispute to the commission of any offence under this Clause shall be settled by the PAA, in such manner as it shall think fit and sufficient and its decision shall be final and conclusive.
- 58. Law governing the contract** This Contract shall be governed by the laws of Pakistan. Resort to court by either of the parties in respect of any disputes should be had only to an appropriate court within the limits and no other courts outside shall have the jurisdiction to hear any suit or any legal proceedings.

59. Increase or Decrease of Cost.

Following procedure shall be followed if "Appendix to Tender" is used / specified and formula thereof is defined.

- a) The Contractor is deemed to have quoted rates and prices given in the Contract on the basis of certain specified materials and equipment prevailing on the date 28 days prior to the date of opening of the Tender. Applicable Basic Prices and Method of calculating price adjustment is given in Appendix to Tender.
- b) During the currency of the Contract, the Contractor shall be paid compensation for additional payments / expenses to which he may be exposed on account of changes/additions in the rates or quantum of

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prices of materials brought about by Government, Local Body and / or Govt. controlled/owned Corporation or Company applicable to the Contract, Similar, the Contractor shall be liable to re-imburse to PAA any savings which he may make on prices of materials because of any changes in the aforesaid fiscal policies.

- c) Adjustment shall be allowed only for the quantities of materials specified in Appendix to Tender which have actually been incorporated in the Permanent Works during the corresponding period of increase or decrease.
- d) Adjustment shall be allowed for the specified materials according to Note (1) in the Appendix to Tender.
- e) All Claims for additional payments under this Clause shall be lodged by the Contractor with the Engineer within such reasonable time from the date of occurrence of the event which, according to the Contractor, entitles him to such additional payments by PAA, but in no case after the expiry of 28 days thereof, such claims shall invariably be supported with all necessary/relevant/material details and particulars required for proper verification thereof and the Engineer shall be entitled to require the Contractor to provide such further details/information as may be required for due and effective verification of such claims.
- f) The Engineer shall verify and certify for payment, if any, all claims lodged by the Contractor under this Clause within a period not exceeding 28 days from the date on which the same are submitted by the Contractor as aforesaid.
- g) In case the Employer is entitled to recover from the Contractor any sum or sums under this Clause arising from any decrease in the said prices for materials, the provisions of this Clause shall mutatis mutandis apply to such recoveries by the Employer.
- h) If the Contractor fails to complete the works within the time for completion adjustment of prices therefore until the date of completion of the works shall be made using either the indices or prices, whichever are more favorable to the Employer, provided that if extension of time is granted the above provision shall apply only to adjustments made up to the expiry of such extension of time.

60. Water Supply / Power Supply etc.

The Contractor should make his own arrangement for water, power supply required for execution of work and nothing will be paid for the same, by the P.A.A.

60.1 Provided that in case water supply is allowed by the PAA to the Contractor from water mains passing through areas where the work is required to be carried out, the Contractor shall pay the cost of water to the deptt. at half percent (1/2%) of the total cost of work for drinking purpose and one percent (1%) of the total cost of the items of work involving use of water (that is for constructional purposes). The Contractor shall bear full charges for laying its water lines of all length and dia from the mains to the site of his underground tanks as he may require and construct for storage purposes at its own cost.

61. Abandonment of work by PAA.

PAA shall have the power to abandon any work whether in progress or otherwise and in such an event, the Contractor shall have no claim for any compensation of any kind whatsoever from PAA except the actual cost of the work executed at the Site under the Contract for which the contract requires payment to be made.

62. Materials obtained from excavation & dismantling.

All materials (e.g. stone and other materials) obtained in the work of dismantling, excavation etc., will be considered PAA property and may be issued to Contractor (if they require the same for their own use) at rates approved by the Senior Works Engineer. If these materials are not required by them, they will be disposed off as found fit by the PAA.

63. Danger Signs to be provided by Contractor

Light and danger signs shall be provided by the Contractor wherever required at his own cost on the barriers as directed by the Senior Works Engineer.

SCHEDULE OF BASIC PRICES OF SPECIFIED MATERIALS**A) Basic Price Materials (To be filled by the bidder)**

We confirm herewith that the following prices were prevailing on the day 28 days prior to the tender closing date and have been taken as a basis for quoting the prices given in our Tender.

Adjustment of increase/decrease in price shall only be admissible for the materials listed herein under:

S.No.	Materials	Unit	Basic Price Ex-Factory/Works	Remarks
1	2	3	4	5
1.	i) Ordinary Portland Cement	M.Ton		The basis of the rate is the Monthly Statistical Bulletin issued by the Federal Bureau of Statistics, Islamabad. -- do --
	ii) Sulphate Resisting Cement	M.Ton		-- do --
2.	Steel Reinforcement	M.Ton		-- do --
3.	Bitumen			
	i) Grades 60/70 or 80/100	M.Ton		The basis of the rate is the Monthly Statistical Bulletin issued by the Federal Bureau of Statistics, Islamabad. If not available then basis would be Pakistan National Refinery Attock or from an approved equivalent source. -- do --
	ii) Cut Back Asphalt	M.Ton		-- do --
	a) Medium Curing	M.Ton		-- do --
	b) Rapid Curing	M.Ton		-- do --

- 1) If the price paid by the Contractor for any of the Specified Materials shall differ from the basic thereof and shall cause an increase or decrease of cost to the Contractor in carrying out the Contract, the increase or decrease of such cost shall be added to or deducted from the Contract Price shall be computed on the basis of quantities actually measured and certified for payment. Any fluctuation in the prices of materials other than the Specified Materials shall not be subject to adjustment of the Contract Price.

- 2) The Tenders shall submit satisfactory documentary evidence in support of the rates and prices filled up in this Appendix.

We agree that price variation in the above listed basic prices during the currency of the Contract will be adjusted only to the extent as stipulated under the Conditions of Contract.

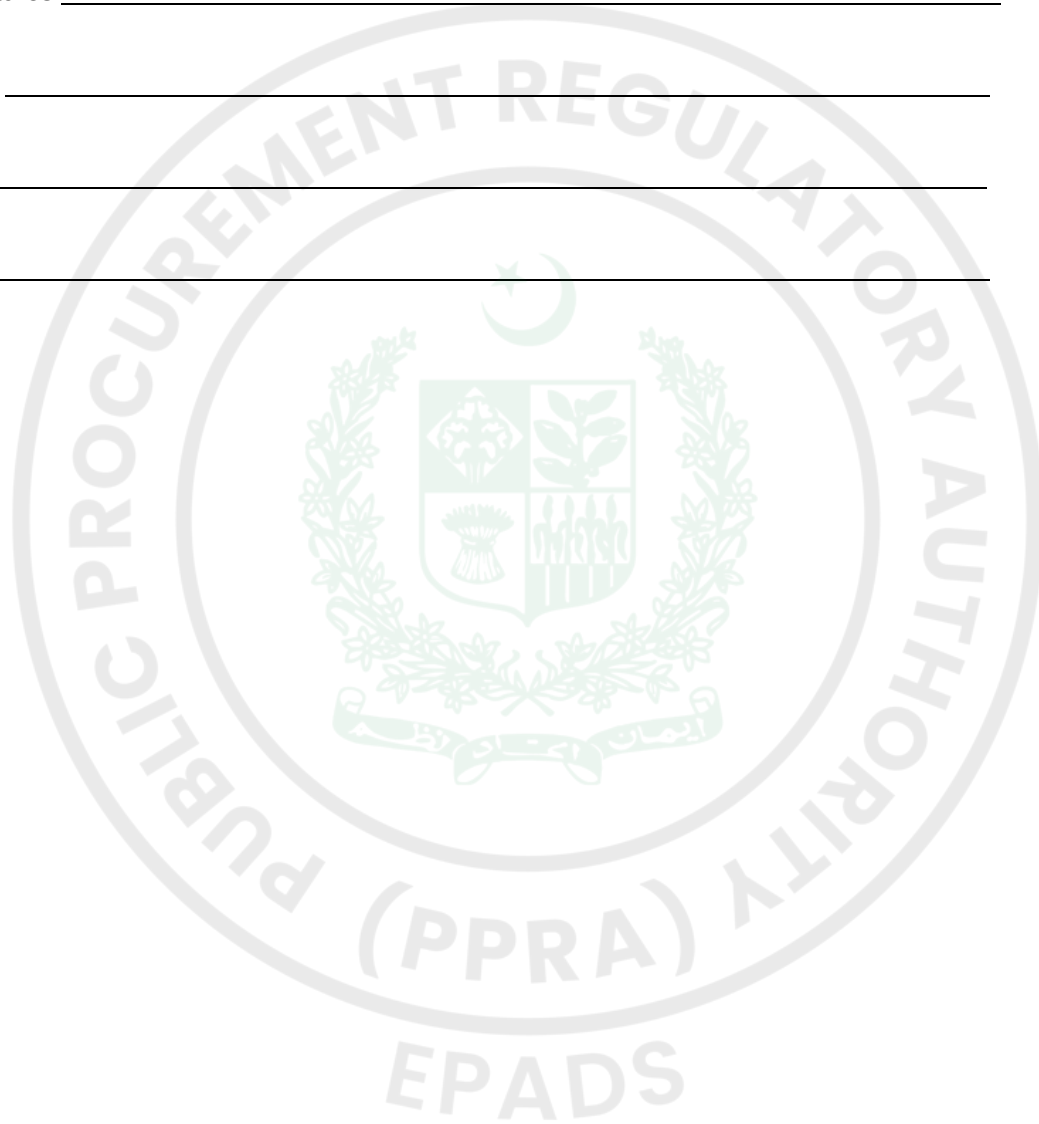
Authorized

Signatures _____

Name _____

Seal _____

Date _____



(PART III)

Schedule showing (approximately) materials to be supplied by the PAA under Clause 52 of the conditions of the Contract or for work contracted to be executed and the rates at which they are to be charged for

Particulars	Rate at which the material shall be charged to the Contractor		Place of Delivery
	Unit	Rs.	

Team **NIL**

Note: The person or firm submitting the tender should see that the rates in the above schedule are filled up by the Engineer on the issue of the form prior to the submission of the tender.

FORM OF LETTER FOR ACCEPTANCE OF TENDER

Re: Construction.....
.....
.....

Dear Sirs,

I am to inform you that your Tender No.....dated.....for the work cited above has been accepted subject to the Conditions and Special Conditions under which you tendered and on the terms as to the period of completion.

2. This acceptance is subject to your:

- i) furnishing an irrevocable Performance Bond from a Scheduled Bank in sum of Rs.....with in days from the date of this letter;
- ii) executing the formal Agreement within 10 days of the date of this letter;
- iii) commencing the work within 15 days of the issue of the order to commence the work.

3. Please acknowledge of this letter of Acceptance of Tender,

Yours faithfully,

PAA

PERFORMANCE BOND GUARANTEE

Guarantee No:
Date of Issue:
Amount of Guarantee:
Date of expiry:

By this Bond We.....

(hereinafter called "*THE SURETY*"), (1) do hereby bind ourselves and our successors and assign jointly and severally by these presents to pay to the *PAKISTAN AIRPORTS AUTHORITY*, (hereinafter referred to as the PAA which term shall include his successors in office and assigns) unconditionally on demand and without further question, the sum of Rs.....(Rupees.....), sealed with our respective seal and dated this

WHEREAS, M/s.

(hereinafter referred to as "*THE CONTRACTOR*") by an agreement made between the PAA of the one part and the Contractor of the part have entered into a Contract hereinafter called "Said Contract" for the Construction, completion and maintenance of as therein mentioned in conformity with the provisions of the said contract and the sum mentioned in the above written Bond represent the amount of Performance Bond to be furnished by the Contractor for due fulfillment of obligations under the said Contract:

NOW THE CONDITION OF the above written Bond is such that if the Contractor shall duly perform & observe all the terms, provisions, conditions & stipulations of the said Contract on the Contractor's part to be performed & observed according to the true purpose, intent & meaning hereof as determined by the PAA who shall be the sole judge in the matter, or if on default by the Contractor for which the PAA shall be sole judge the Sureties/Surety shall pay the amount of this Bond to PAA without reference to the Contract, then this obligation shall be null and void but otherwise shall be and remain in full force and effect but no alteration in terms of the said Contract made by agreement, between the PAA and the Contractor or in the text or nature of the works to be constructed, completed and maintained there under and no allowance of time by PAA under the said Contract nor any forbearance or forgiveness in or in respect of any matter or thing concerning the said Contract on the part of the PAA shall in any way release the Sureties/Surety from any liability under the above written Bond.

AND WE agree that this Bond shall be irrevocable and the Guarantee hereby given shall be valid up toAnd that a Certificate signed by the Director Works & Development/ General Manager Works of the Pakistan Airports Authority, stating that the Bond has become due will be sufficient proof of its forfeiture and we shall pay the amount so demanded without, any further proof of any kind and that the payment shall be made by us forthwith on the receipt of the Certificate of the Director Works & Development /General Manager Works Circle as aforesaid.

Notwithstanding anything contained here in above, the Bank's liability under this Guarantee shall Inno event exceed the sum of Rs. (Rupees), and this guarantee shall remain valid up towhere after the Bank shall be completely discharged and released from all its liabilities hereunder unless a claim is received before the aforesaid expiry date.

Signed, sealed and delivered by the said in the presences of

For and on behalf of
M/s

CONTRACTOR

WITNESSES:

1. Signature.

Name.

Address.

for and on behalf of

SURETY

1. Signature.

Name.

Address.

**MOBILIZATION ADVANCE GUARANTEE
(Bank Guarantee)**

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called PAA) has entered into a Contract with Constructor (hereinafter called the "Contractor") for

AND WHEREAS, PAA has agreed to advance to the Contractor, at the Contractor's request an amount of Rupees _____ (Rs. _____), which amount shall be advance to the Contractor as per provisions of the Contract.

AND WHEREAS, PAA has asked the Contractor to furnish guarantee for performance of his obligations under the said Contract.

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

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

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

This Guarantee shall remain in force until the advance is fully adjusted against payments from the Interim Payment Certificates of the Contractor or until (Date) _____ whichever is earlier.

The Guarantor's liability under, this Guarantee shall not in any case exceed the sum of Rupees _____ (Rs. _____).

This Guarantee which is unconditional and irrevocable, shall remain valid upto 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 Payments Certificates of the Contractor provided that the Guarantor agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted as payments from Interim Payment certificates of the Contractor.

GUARANTOR

For _____
(Bank Limited)
1. Signature _____
2. Name _____
3. Title _____

SPECIAL CONDITIONS OF CONTRACT

6 Possession of Site

(Substitute the clause 6 with following text)

- 6.1 The Divisional Engineer shall, together with the written order to commence the Works, grant the Contractor possession of such portions of the Site as are necessary to enable the Contractor to commence and carry out the Works in accordance with the programme referred to in Clause 10, subject to any sequencing or phasing requirements prescribed in the Contract.
- 6.2 Thereafter, and from time to time as the Works progress, the Divisional Engineer shall grant possession of further portions of the Site, as required for execution of the Works with due dispatch, provided such possession aligns with the Contractor's reasonable proposals as approved by the Divisional Engineer.
- 6.3 The Contractor shall submit any such proposals for staging of site possession in writing to the Divisional Engineer for review and approval, and no right to possession shall arise unless and until expressly granted by the Divisional Engineer.
- 6.4 PAA shall not be liable for any delay or claim arising from staged or partial possession of the Site, provided such staging is consistent with the Contract or approved programme.

10 Programme to be furnished

(For works with a contract price exceeding the financial limit prescribed for PEC Constructor Registration Category C-3, as revised from time to time, Clause 10 shall be substituted with the following text)

- 10.1 The Contractor shall, within fifteen (15) days of receiving the Letter of Acceptance, submit a detailed Programme of Works to the Divisional Engineer for approval. The Programme shall include all activities, including mobilization, and clearly identify critical path items using a computerized Critical Path Method (CPM) format. The Programme shall be updated monthly, incorporating a chart of forecasted principal activities, an updated cash flow schedule for payments, and any revisions necessary to reflect actual progress. It shall serve as the baseline for assessing progress and determining Liquidated Damages under Clause 29. Monthly progress reports shall include an up-to-date analysis of actual versus planned progress, identification of current or emerging critical items, and the Contractor's proposed measures for mitigation.

18 Quality of Material, Workmanship and Tests

- 18.2 Expenditure on account of laboratory testing to ascertain suitability of materials and all other required tests etc. shall be borne by the Contractor.
- 18.3 All testing for material approvals and Quality Control is the responsibility of Contractor. Contractor may hire equipment & services of an approved independent laboratory or should establish his own laboratory at site after taking approval of required equipment and manpower.
- 18.4 Contractor shall pay all costs / charges of material testing, transportation of samples and visits of PAA technical staff (factory, borrow areas, crushers) for approval of materials.
- 18.5 Contractor shall seek approval of independent laboratory for specialized tests i.e. steel cement, water etc.
- 18.6 PAA shall depute experienced technician at site to supervise in field & in site laboratory. All tests will be performed by contractor's competent technician in his presence in accordance with specified standards. Contractor shall provide him transport for pick & drop.
- 18.7 Contractor shall provide complete record of all quality tests, mill test certificates to the Engineer Incharge regularly & shall keep copies of test standards in site office / lab.
- 18.8 Afghan and suspected person holding old NIC will not be engaged by the contractor.



24 Extension of time for Completion:

(For works with a contract price exceeding the financial limit prescribed for PEC Constructor Registration Category C-3, as revised from time to time, Clause 24 shall be substituted with the following text)

24.1 In the event of:

- (a) the amount or nature of extra or additional work,
- (b) exceptionally adverse climatic conditions,
- (c) any delay, impediment or prevention by the PAA, or
- (d) other special circumstances which may occur, other than through a default of or breach of contract by the Contractor for which he is responsible, being such as fairly to entitle the Contractor to an extension of the Time for Completion of the Works, or any Section or part thereof, the Divisional Engineer shall, after due consultation with the Contractor, determine the amount of such extension and shall notify the Contractor accordingly. Provided that the Divisional Engineer is not bound to take into account any extra additional work or other special circumstances unless the Contractor has within fourteen (14) days after such work has been commenced or such circumstances have arisen, delivered to the representative of the Divisional Engineer full and detailed particulars of any claim for extension of time to which he may consider himself entitled in order that such claim may be investigated at the time.

25 Termination of Contract for slow progress

25.1 In the event of termination by the Divisional Engineer, the Contractor shall have the right to file an appeal before the Director General PAA, within seven (07) days from the receipt of such termination notice. The decision of the Director General PAA shall be final and binding.

29 Liquidated damages for delay

29.2 The amount of Liquidated Damages for each day of delay in completion of the whole of the Works, or if applicable for any Section thereof, shall be imposed at the rate of 0.05% of Contract Price as stated in Letter of Acceptance for each day of delay in completion of the Works. Provided that the amount of Liquidated Damages for delay shall not exceed ten

(10) per cent of the Contract Price as stated in Letter of Acceptance in all cases.

29.3 In cases where liquidated damages have been imposed or have been proposed to be imposed, the amount to be retained in lieu of Security Deposit during the Maintenance Period shall be based on the cost of works executed, and not the reduced amount to be paid to the Contractor after imposition of liquidated damages.

29.4 Where a work has been delayed beyond the stipulated date of completion, the Contractor shall be required to extend the securities and insurances as per the revised dates at his own cost.

31 Suspension of Works

31.2 Partial / complete suspension in work is likely to take place during emergency operations and VIP movements etc. labour, equipment, and material, etc. shall be removed from the site of work during such suspension periods to a distance for essential security requirements. No compensation whatsoever on this account shall be claimed by the Contractor for those losses likely to occur. All such unforeseen disruptions during working hours may result in idleness of manpower and equipment and waste of material, etc. for which no compensation shall be paid to the Contractor.

31.3 No compensation is payable for interruption in the work due to any reason beyond the control of PAA.

32 Care of Works

32.2 The Construction materials should be stacked at a suitable place as per the direction of the Divisional Engineer or his representative.

32.3 The work shall be so arranged as not to cause any disturbance to the passengers / functionaries and other agencies working at the airport.



41 Valuation of Works

- 41.3 For works items described in the priced bill of quantities (BoQ), the valuation of works shall be made as per the evaluated rates provided in the corrected priced BoQ, and for work items not described in the priced bill of quantities (BoQ) but available in the Pak PWD Schedule of Rates (SoR), the valuation of works shall be made on pro rata basis, and
- 41.4 For work items not described in the priced bill of quantities (BoQ) but available in the Pak PWD Schedule of Rates (SoR), the valuation of works shall be made on pro rata basis, and
- 41.5 For work items neither described in the priced bill of quantities (BoQ) nor available in the Pak PWD Schedule of Rates (SoR), the valuation of works shall be made on the basis of actual cost (market rates) plus a lumpsum of twenty-five per cent (25%) as overheads and profit.

47 Period of Maintenance

- 47.2 Period of Maintenance or Defects Liability Period shall be of one-hundred eighty (180) days duration.

59 Increase or Decrease of Cost

- 59.9 The Price Adjustment shall be applicable only for the Contracts having stipulated completion period greater than eighteen months and contract price exceeding financial limit of PEC Constructor's Registration Category C-3 as amended from time to time. Contracts having stipulated completion period less than or equal to eighteen months and value equal to or less than the above said limit will be considered as fixed price contracts.

64 Payments to Contractor

- 64.1 PAA shall release payment to the Contractor within fifty-six (56) calendar days from the date of certification of the Contractor's bill by the Divisional Engineer. Should payment be delayed beyond this period, a simple interest at the rate of zero-point zero five percent (0.05%) per annum shall accrue on the unpaid amount, calculated from the day immediately following the due date until the date of actual payment.

65 Settlement of Disputes

- 65.1 Any difference or dispute arising between the PAA and the Contractor regarding the interpretation, execution, or performance of any provision of this Contract shall be referred exclusively to the Director General PAA, whose decision shall be final, conclusive, and binding on both parties. The Contractor shall not initiate or pursue any legal proceedings or remedies in relation to such matters. This shall be without prejudice to the rights of the parties under the applicable laws.

66 Authenticity of Financial Instruments

- 66.1 Any financial instrument, submitted by the Contractor as Bid Security, and Performance Guarantee, if found fake or dishonored by the issuing bank / financial institution at any pre- / post-contractual stage shall, in addition to any criminal liability, call for blacklisting of the Contractor.

67 Obligations of the Contractor

- 67.1 The Contractor, during the execution of works, shall be responsible for following the instructions and directions of the Divisional Engineer or his representative only.
- 67.2 The Contractor shall be responsible to provide and use quality construction material as per the specifications, and to the satisfaction of the Divisional Engineer.
- 67.3 The Contractor shall strictly adhere to all design requirements and technical specifications established by the Design Engineer and approved by PAA. The charges of which shall be borne by the Contractor, but the additional quantity of any materials used in executing the Works shall be paid as per Contractor's quoted rate.
- 67.4 The Contractor shall clean the existing rusty steel by approved means at his own cost and no compensation whatsoever shall be given to the Contractor.
- 67.5 The Contractor will be fully responsible to arrange security clearance of his workmen employed on the job in accordance with the rules requirements enforced at the time of execution and shall not be entitled for any compensation whatsoever on account of wastage of time and labour due to any reason. The Contractor is bound



to submit Proforma for seeking security clearance from Intelligence Bureau and Special Branch Police in respect of their manpower soon after the receipt of the Acceptance Letter.

- 67.6 The Contractor shall enclose the work / site area as per direction of the Divisional Engineer or his representative at his own cost. He will also ensure safety of workers as well as passenger(s) and airport staff during and after the work hours.
- 67.7 The Contractor shall submit a list of fittings, fixtures, equipment etc. to be dismantled as approved by Engineer In charge accordingly.
- 67.8 Generally, the works will be carried in accordance with Electrical Act 1910 read with Electricity Rules 1937 and any amendments thereto, Pak PWD Specifications for Electrical Works & latest editions of I.E.E rules of Building Equipment.
- 67.9 All wires & Cables to be used for executions of work will be copper conductors.
- 67.10 Damages done by the contractor during execution of work will be made good by the Contractor as per engineering specifications and to the complete satisfaction of the Engineer In charge.
- 67.11 The contractor will perform all types of tests as directed by E&M Engineer In charge after / before executions of his work & will submit test reports in this regard if required.
- 67.12 Cost of samples of materials will not be claimed & test charges for all required tests as instructed by the E&M Engineer from Govt. or other authorities will be borne by the contractor without any extra claim of this effect.
- 67.13 The Contractor will submit warranty / guarantees & literature of the Air-Conditioning equipment, Electrical equipment or Mechanical equipment etc as desired by Engineer In charge.
- 67.14 The approved makes of materials, accessories & equipment are provided in Appendix-F. works shall be executed subject to approval of samples from Engineer In charge.
- 67.15 Any equipment / items during execution / testing / commissioning & during maintenance period if burnt out / malfunctioning or broken will be replaced by the contractor without any extra cost.
- 67.16 The work will be carried out in accordance with Pak PWD and FAA Specifications unless otherwise clearly provided in the contract documents.
- 67.17 The contractor shall prepare / submit detailed shop drawings, level sheets (X-sections/L-sections etc.) at his own cost and get approved by PAA before execution of work if, so required.
- 67.18 The unserviceable dismantled material (debris), if desired will have to be disposed off, out of the Aerodrome premises and the stacking of serviceable material in PAA store by the contractor at his own cost as per instructions of the Engineer In charge.
- 67.19 The contractor will have to abide by all rules and regulations enforced by PAA and other agencies working at the Airport.
- 67.20 The contractor shall arrange all tools and plant / test equipment required for execution of work & testing of the system as per B.O.Q.
- 67.21 The contractor will be responsible for loading / unloading transportation of all the equipment assuring their safe custody / storage.
- 67.22 All safety measures shall be adopted during execution of work as per PAA rules / regulations. The contractor shall ensure safety of their workers during the execution of work & should use overall, fluorescent jackets, safety helmets & belts (PPE's) wherever necessary.
- 67.23 No compensation is payable for interruption in the work due to any reason beyond the control of PAA.
- 67.24 The bid shall be complete in all respects and account for all allied works if and as required.
- 67.25 Any damage caused to PAA property / services shall be rectified / made good by the contractor.
- 67.26 The contractor must provide a 2024 or above model Toyota Revo Double Cabin (2700CC) or equivalent with driver and 300 liters of monthly fuel. All routine maintenance, operational servicing, and repair costs must be borne entirely by the contractor at no cost to PAA.
- 67.27 Arrangement and provisioning of allied facilities such as additional lighting for working done during night and



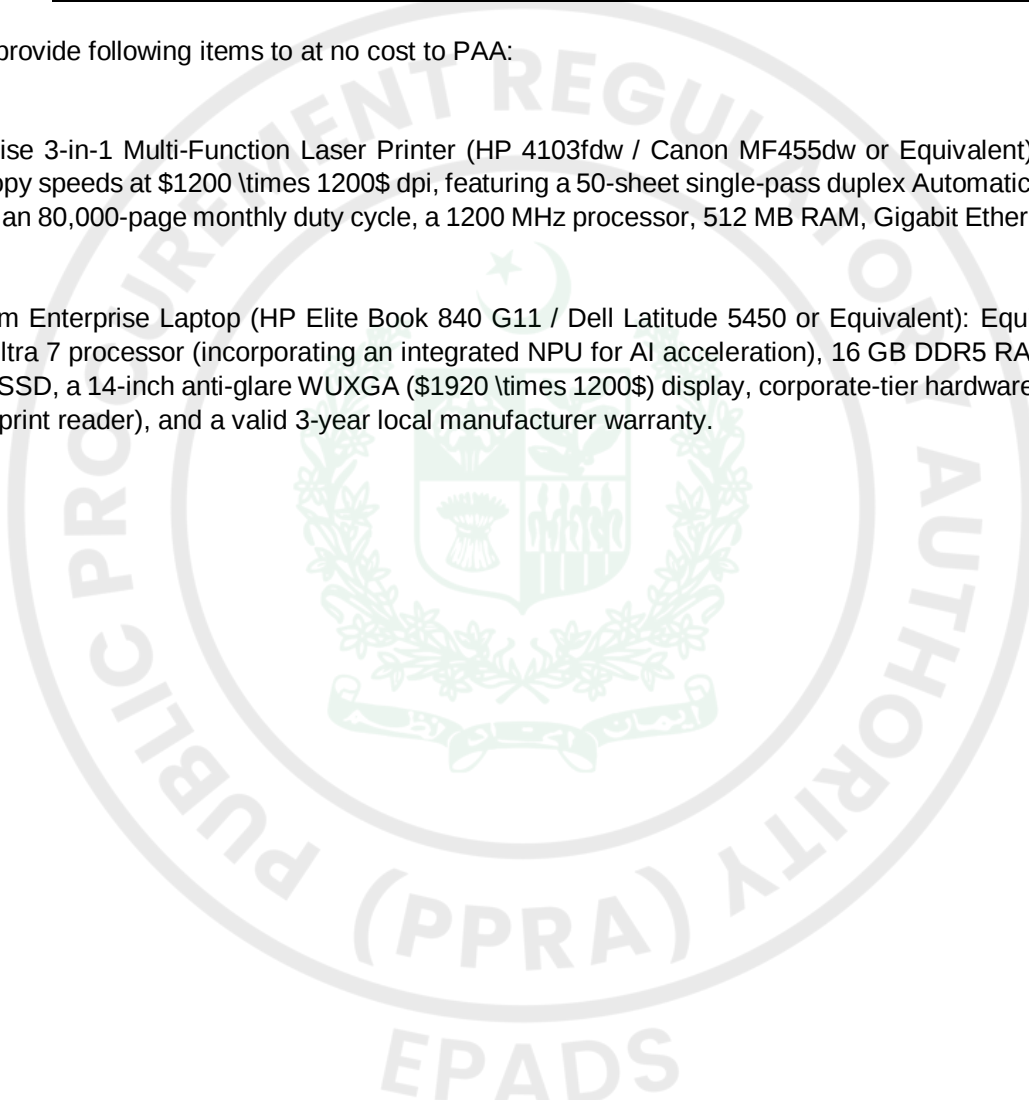
scaffolding / ladders for working on heights will be responsibility of contractor.

67.28 Following approved make items shall be used other than items for which specifications have already been developed;

S #	Material / Articles	Name of Manufacturers / Brands
a)	Lights (Fittings / Fixtures)	Phillips, Pakistan Lighting, Osram, Eaton, Tungsram, GE, Apple, My Lighting, Butterfly, Osaka, Factor.
b)	Wires & cables	Pakistan cables, new age, Fast cables, Allied,
c)	Switches & Sockets	<u>Schneider/clipsal, Universal, legrand any other reputable as approved by the Engineer Incharge.</u>

68. Contractor shall provide following items to at no cost to PAA:

- (i) Enterprise 3-in-1 Multi-Function Laser Printer (HP 4103fdw / Canon MF455dw or Equivalent): Delivers 40 ppm print/copy speeds at \$1200 \times 1200\$ dpi, featuring a 50-sheet single-pass duplex Automatic Document Feeder (ADF), an 80,000-page monthly duty cycle, a 1200 MHz processor, 512 MB RAM, Gigabit Ethernet, and dual-band Wi-Fi.
- (ii) Premium Enterprise Laptop (HP Elite Book 840 G11 / Dell Latitude 5450 or Equivalent): Equipped with an Intel Core Ultra 7 processor (incorporating an integrated NPU for AI acceleration), 16 GB DDR5 RAM, a 512 GB PCIe NVMe SSD, a 14-inch anti-glare WUXGA (\$1920 \times 1200\$) display, corporate-tier hardware security (TPM 2.0 / fingerprint reader), and a valid 3-year local manufacturer warranty.



Team

SPECIAL TERMS AND CONDITIONS

E&M Works

- 1 The contractor shall arrange all tools and plant / test equipments required for execution of work & testing of the system as per B.O.Q.
- 2 The contractor will be responsible for loading / unloading transportation of all the equipment assuring their safe custody / storage
- 3 All safety measures shall be adopted during execution of work as per PAA rules / regulations. The contractor shall ensure safety of their workers during the execution of work & should use overall, fluorescent jackets, safety helmets & belts (PPE's) wherever necessary.
- 4 Arrangement and provisioning of allied facilities such as additional lighting for working done during night and scaffolding / ladders for working on heights will be responsibility of contractor
- 5 Any damage caused to PAA property / services shall be rectified / made good by the contractor
- 6 The contractor shall indemnify PAA against all third party claims, including claims of infringement of intellectual property rights including patent, trademark etc. arising thereof
- 7 The bid shall be complete in all respects and account for all allied works if and as required
- 8 Following approved make items shall be used other than items for which specifications have already been developed;

S #	Material / Articles	Name of Manufacturers / Brands
d)	Wires and Cables	Pakistan, Universal, AGE, Newage, Allied, Fast
e)	Magnetic Contactor, Photoelectric EE Switches, Sockets, MCCB and MCB etc	Terasaki Japan, Siemens, ABB, MG, Schneider, Clipsal
f)	Straight through joints/ Termination ends	Raychem, Seal Pack
g)	HT Incoming & Outgoing Panel	Siemens, PEL, FICO, Schneider Electric, ABB
h)	Battery	AGS, Phoenix, Exide, Daewoo, Atlas, Osaka, Zhejiang Narada
i)	UPS	Apollo, Eco Star APC, Inverex, Homage, Crown, Schneider, NS

- 9 Quoted model of VCB should comply with KE Specifications of 11KV switchgears
- 10 Contractor shall arrange FAT at OEM premises for 02 PAA officials without any additional cost
- 11 The contractor shall cordon the work place/area as per direction of the Engineer Incharge at his own cost. He will also identify the construction area and will ensure safety of worker during and after working hours.
- 12 The construction material should be stacked at a suitable place and shall be so arranged that it may not cause any hindrance for the passengers, functionaries and other officials of agencies etc. working at the airport as per direction of the Engineer Incharge
- 13 Laboratory Testing: -
 - a The cost of all the laboratory tests as and when required would be borne solely by the contractor.



- b All testing for material approvals and Quality Control is the responsibility of Contractor. Contractor may hire equipment & services of an approved independent laboratory or should establish his own laboratory at site after taking approval of required equipment and manpower
- c Contractor shall pay all costs / charges of material testing, transportation of samples and visits of PAA technical staff (factory, borrow areas, crushers) for approval of materials
- d Contractor shall seek approval of independent laboratory for specialized tests i.e. steel cement, water etc.
- e PAA shall depute experienced technician at site to supervise in field & in site laboratory. All tests will be performed by contractor's competent technician in his presence in accordance with specified standards. Contractor shall provide him transport for pick & drop
- f Contractor shall provide complete record of all quality tests, mill test certificates to the Engineer Incharge regularly & shall keep copies of test standards in site office / lab

14 Afghan and suspected person holding old NIC will not be engaged by the contractor.

15 The unserviceable dismantled material (debris), if desired will have to be disposed off, out of the Aerodrome premises and the stacking of serviceable material in PAA store by the contractor at his own cost as per instructions of the Engineer In charge.

Signature of Contractor with Stamp

Divisional Engineer ES(Civil-I),JIAP

LAYOUT / IMAGES

Location Plan Showing Proposed Services for ASF Infrastructure

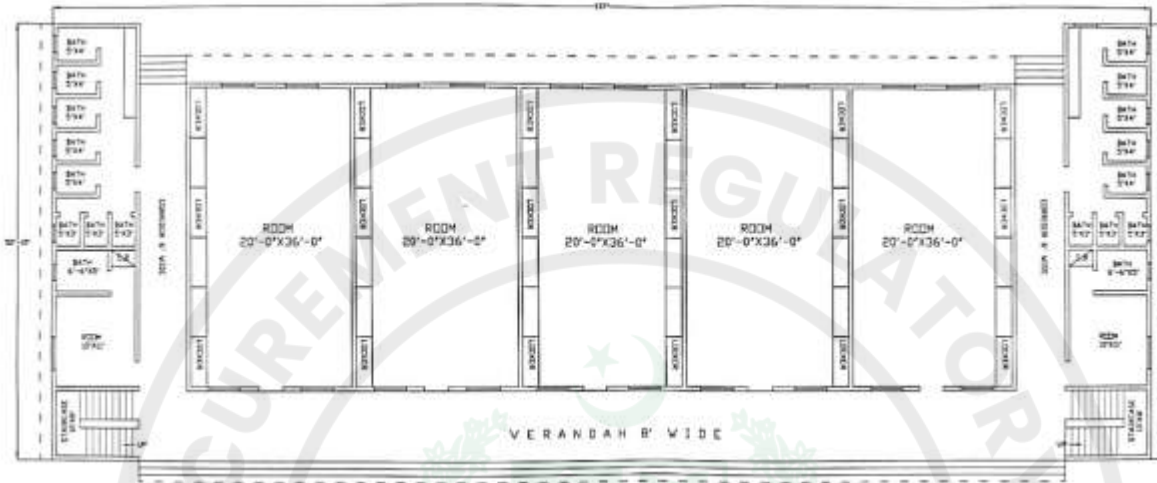


Image is 2023/01/15



Team

DRAWING OF BARRACK FOR 128 PERSONNEL



CAPACITY OF ACCOMMODATION = 128 PERSON

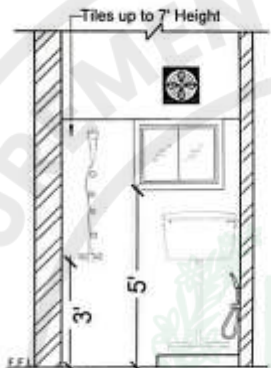
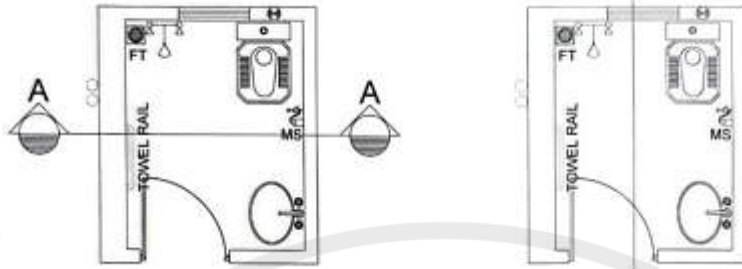
GROUND FLOOR COVERED AREA = 6395.23 SFT

SUN SHED AREA 1/2 = 366.75 SFT

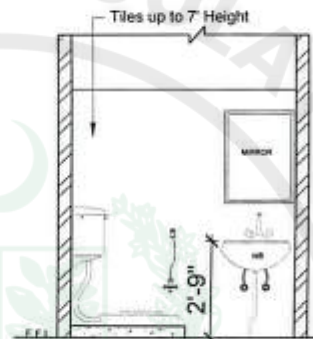
TOTAL = 6762.00 SFT

BATH DETAILS

5'-0"X6'-4-1/2 "

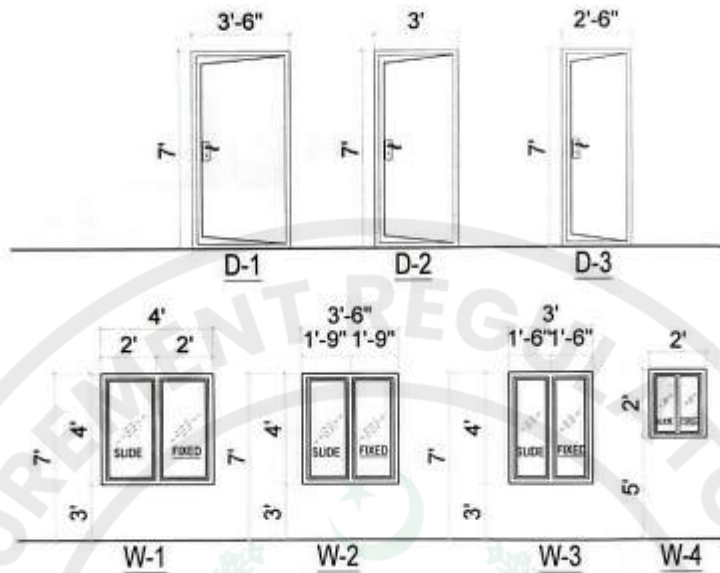


SECTION AT A-A



SECTION AT X-X

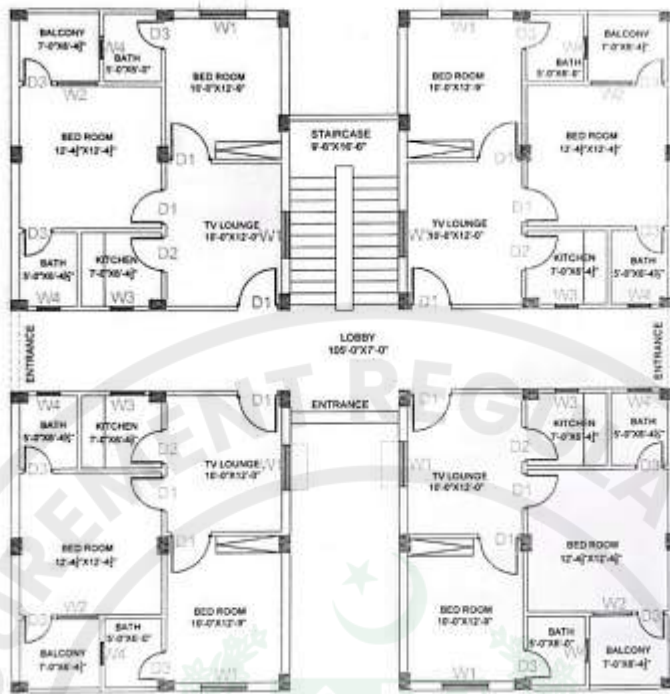
Client: ASF HQ KARACHI				Project: HSGA		Phase: AREESH PVT LTD		Sheet No: 11		Project: TWO BED ROOM APARTMENTS ISLAMABAD		AREESH (PVT) LTD
Revision	Date	Description	Drawn	Checked	Approved	Author	Haroon Ali	Design No: A-11	Rev: 1	Detail Bath Plan		



				CLIENT:	PROJECT:	PROJECT:	PROJECT:	PROJECT:
				ASF HQ	HSGA	AREESH PVT LTD	TWO BED ROOM APARTMENTS	AREESH (PVT) LTD
				KARACHI	Haroon Ali	A-07	ISLAMABAD	
							SCHEDULE OF DOORS & WINDOWS	

OFFICE: 12 FL, NICE & DECADE
PHASE: 1, DHA, ISLAMABAD
Downloaded from: www.epads.com

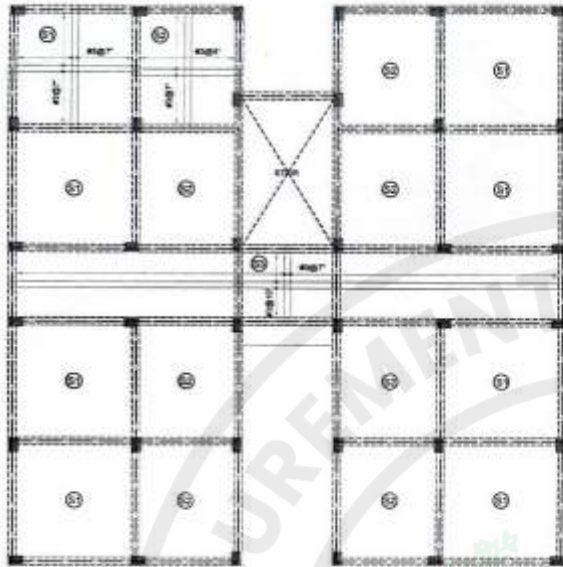




TWO BED ROOM APARTMENT -- COLUMN LAYOUT PLAN

				ASQ HQ KARACHI		HSGA		SCALE		SHEET NO. 04		PROJECT TWO BED ROOM APARTMENTS ISLAMABAD		AREESH (PVT) LTD	
						Haron Ali		DESIGNED BY AREESH PVT LTD		DATE: 17/05/20		TITLE COLUMN LAYOUT PLAN		22/11/2019 10:14:00 AM PRJ: 10000000000000000000 DRAWN: 20190101.dwg COLL: 20190101.dwg	
								DRAWN BY A. D.		REV					

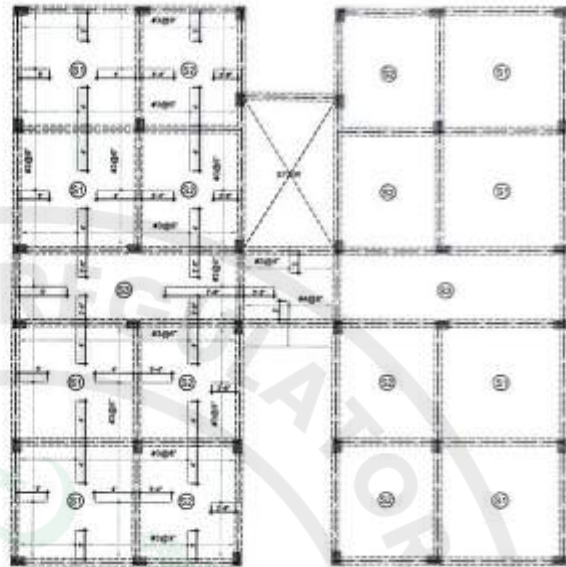
FOR INFORMATION OF CONTRACTOR & FOR RECORD PURPOSE



FIRST FLOOR REINFORCEMENT PLAN (BOTTOM BARS)

NOTES

1. ALL SLABS ARE 6" THICK EXCEPT NOTED OTHERWISE.
2. BENDING BARS #11 @ 12" ON CENTER WHEREVER REQUIRED.



FIRST FLOOR REINFORCEMENT PLAN (TOP BARS)

ASD HQ, KARACHI				PROPOSED TWO BED ROOM APARTMENTS				AREESH (PVT) LTD			
STRUCTURAL CONSULTANT				FIRST FLOOR REINFORCEMENT PLAN (BOTTOM & TOP BARS)				STRUCTURAL CONSULTANT			
Eng. (Said Muhammad Aslam)											

GENERAL NOTES

1. READ ALL DIMENSIONS IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL & ANY OTHER RELEVANT DRAWINGS.
2. NOTES GIVEN IN THE DRAWINGS ARE APPLICABLE TO ALL DIMENSIONS UNLESS OTHERWISE NOTED. NOTES WRITTEN IN A DRAWING SHALL BE APPLICABLE TO THAT PARTICULAR DRAWING ONLY UNLESS OTHERWISE CROSS-REFERENCED.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE SPECIFICATION OF THE CONTRACT DOCUMENTS. IN ABSENCE OF ANY SPECIFICATION, ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO RELEVANT AISI CODES AND SHALL BE SUBMITTED TO APPROVAL OF THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURE DURING CONSTRUCTION. HE SHALL ALSO VERIFY ALL DIMENSIONS AND LEVELS BEFORE EXECUTION OF WORK. ANY DISCREPANCY, ERROR OR OMISSION, IF FOUND, SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR CORRECTION AND APPROVAL.
5. ALL LEVELS AND DIMENSIONS ARE IN FEET & INCHES UNLESS OTHERWISE NOTED.
6. FIGURED DIMENSIONS ARE TO BE FOLLOWED.

DESIGN LOADS

1. STRUCTURAL DESIGN IS BASED ON THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318M) SERIES. (LOADING IS IN ACCORDANCE TO UBC-97 (SEISMIC) LOADS FOR ZONE 2B) WHEREAS DRAUGHT LOADS ARE AS PER PAGE 7 IS.

REINFORCED CONCRETE (PLAIN CONCRETE WORKS)

1. CONCRETE FOR ALL ELEMENTS SHALL BE OF 3000 PSI CYLINDRICAL STRENGTH AT 28 DAYS. 2. FINISHES PLAIN CONCRETE SHALL BE OF 3000 PSI CYLINDRICAL STRENGTH AT 28 DAYS.

REINFORCING STEEL

1. ALL REINFORCEMENT SHALL BE DEFORMED BARS GRADE 60 WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI CONFORMING TO ASTM A615.
2. PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING CONCRETE COVER TO ALL REINFORCEMENT UNLESS NOTED OTHERWISE ON DRAWINGS. COVER IS THE CLEAR DISTANCE FROM THE CONCRETE SURFACE TO THE NEAREST EDGE DRIFT REINFORCEMENT.

ELEMENT	TOP	BOTTOM	SIDE
SLAB	3/4"	3/4"	-
BEAM	1 1/2"	1 1/2"	1 1/2"
COLUMN	-	-	1 1/2"
WALL	-	-	1 1/2"
RETAINED WALL	-	-	1 1/2"
FOOTING/RAFT	2"	2"	2"

3. LIFT #3 BENDING BARS AT 12" C/C FOR TOP REINFORCEMENT

1. WHEREAS NOT INDICATED POSITIVE REINFORCEMENT TO BE CURTAILED AT 1/8 OF CLEAR SPAN FROM THE EDGE OF THE SUPPORTING BEAM. NEGATIVE REINFORCEMENT TO EXTEND 6.33X IN THE AREA OF THE CLEAR SPAN ON EITHER SIDE OF THE SUPPORTING BEAM TO BE MAINTAINED THROUGHOUT THE ENTIRE SPAN AND 3.33X FOR EDGE BEAM.

2. BARS SHALL BE EVENLY DISTRIBUTED OVER THE ENTIRE SPAN UNLESS NOTED OTHERWISE ON PLAN. DISTRIBUTION REINFORCEMENT AT RIGHT ANGLES TO MAIN REINFORCEMENT SHALL BE AS SHOWN BELOW. THE MAIN REINFORCEMENT SHALL NOT BE LESS THAN DISTRIBUTION REINFORCEMENT.

SLAB THICKNESS	MINIMUM DISTRIBUTION REINFORCEMENT
4"	8 #20 @ 12"
5"	8 #20 @ 12"
6"	8 #20 @ 12"
7"	8 #20 @ 12"
8"	8 #20 @ 12"
9"	8 #20 @ 12"
10"	8 #20 @ 12"
11"	8 #20 @ 12"
12"	8 #20 @ 12"

1. FOR EVERY 12 FEET 12" AND DIMENSION SHALL BE PROVIDED IN EACH OF FOUR CORNERS. FOR SLAB 6 BEAMS 6.33X MINIMUM SHALL BE MAINTAINED FOR 1" AND LEFT 12" BELOW TOP OF SLAB AND 3.33X MINIMUM SHALL BE MAINTAINED FOR 12" BELOW TOP OF SLAB.

FOOTING/RAFT

1. THE FOOTING/RAFT AND REINFORCEMENT FOR 1" IS 12" BARS BEARING CAPACITY OF 5000 PSI. REINFORCEMENT IS 12" BARS.
2. THE BEARING CAPACITY TO BE CHECKED AT SITE BEFORE EXISTENCE OF DIMENSIONS OF FOOTING/RAFT. THE OFFICE SHALL BE IMMEDIATELY INFORMED FOR REDRESSING OF FOOTING/RAFT.

TYPICAL DETAIL OF STAIRCASE

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TYPICAL DETAIL OF STAIRCASE

TABLE 1A: LAP LENGTH FOR BARS IN TENSION

LOCATION	LAP LENGTH	
	12" x 3000 PSI	12" x 4000 PSI
TOP BARS	36"	36"
BOTTOM BARS	36"	36"
DEVELOPMENT LENGTH	36"	36"

TABLE 1B: LAP LENGTH FOR BARS IN TENSION

LOCATION	LAP LENGTH	
	12" x 4000 PSI	12" x 5000 PSI
TOP BARS	36"	36"
BOTTOM BARS	36"	36"
DEVELOPMENT LENGTH	36"	36"

TABLE 2: STANDARD HOOKS TO MAIN BARS

BAR SIZE	MINIMUM DEVELOPMENT LENGTH (IN)	MINIMUM HOOK LENGTH (IN)	MINIMUM HOOK LENGTH (IN)
#3	12"	12"	12"
#4	16"	16"	16"
#5	20"	20"	20"
#6	24"	24"	24"
#7	28"	28"	28"
#8	32"	32"	32"
#9	36"	36"	36"
#10	40"	40"	40"
#11	44"	44"	44"
#12	48"	48"	48"

THIS NORMAL DEVELOPMENT LENGTH OF THE REINFORCING BARS IS 36" INCHES

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TYPICAL DETAIL AT SLAB OPENING

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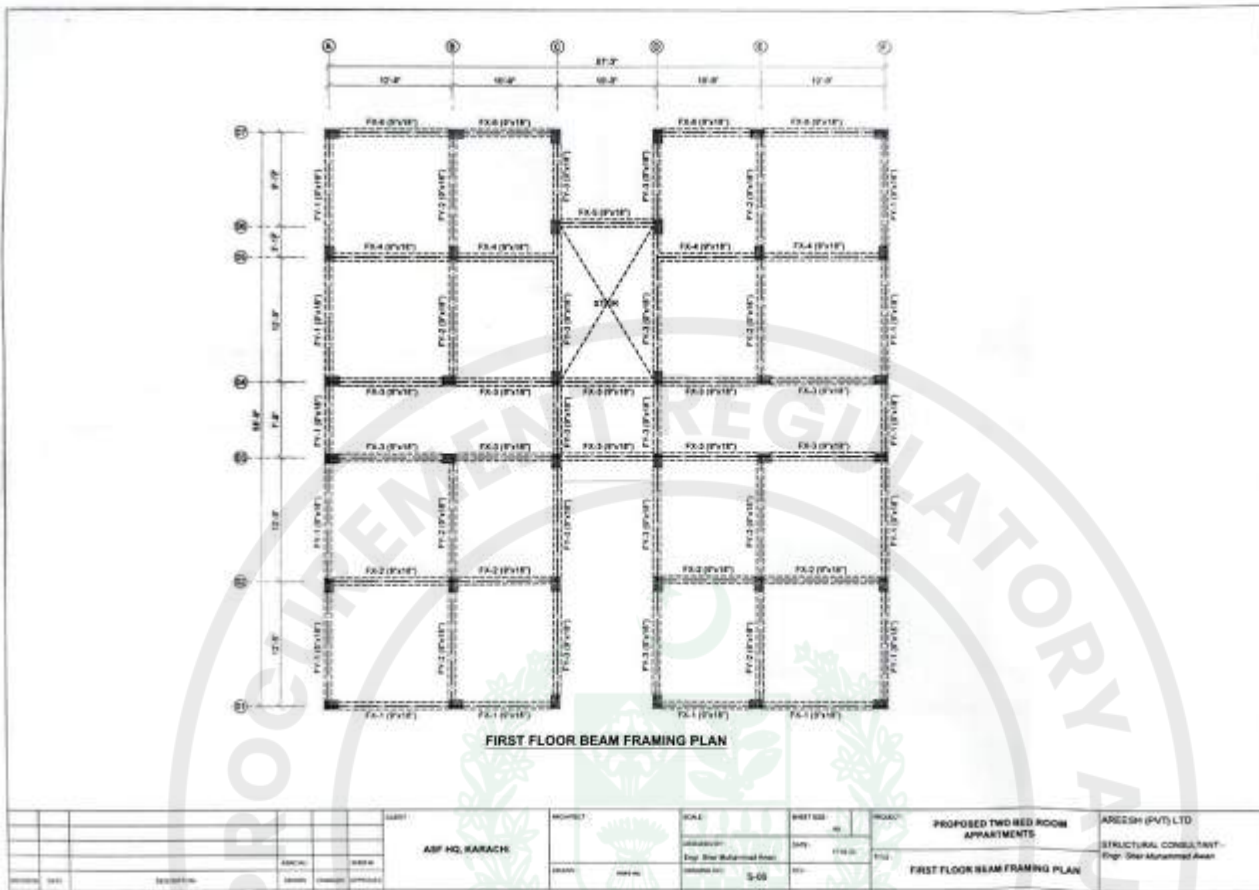
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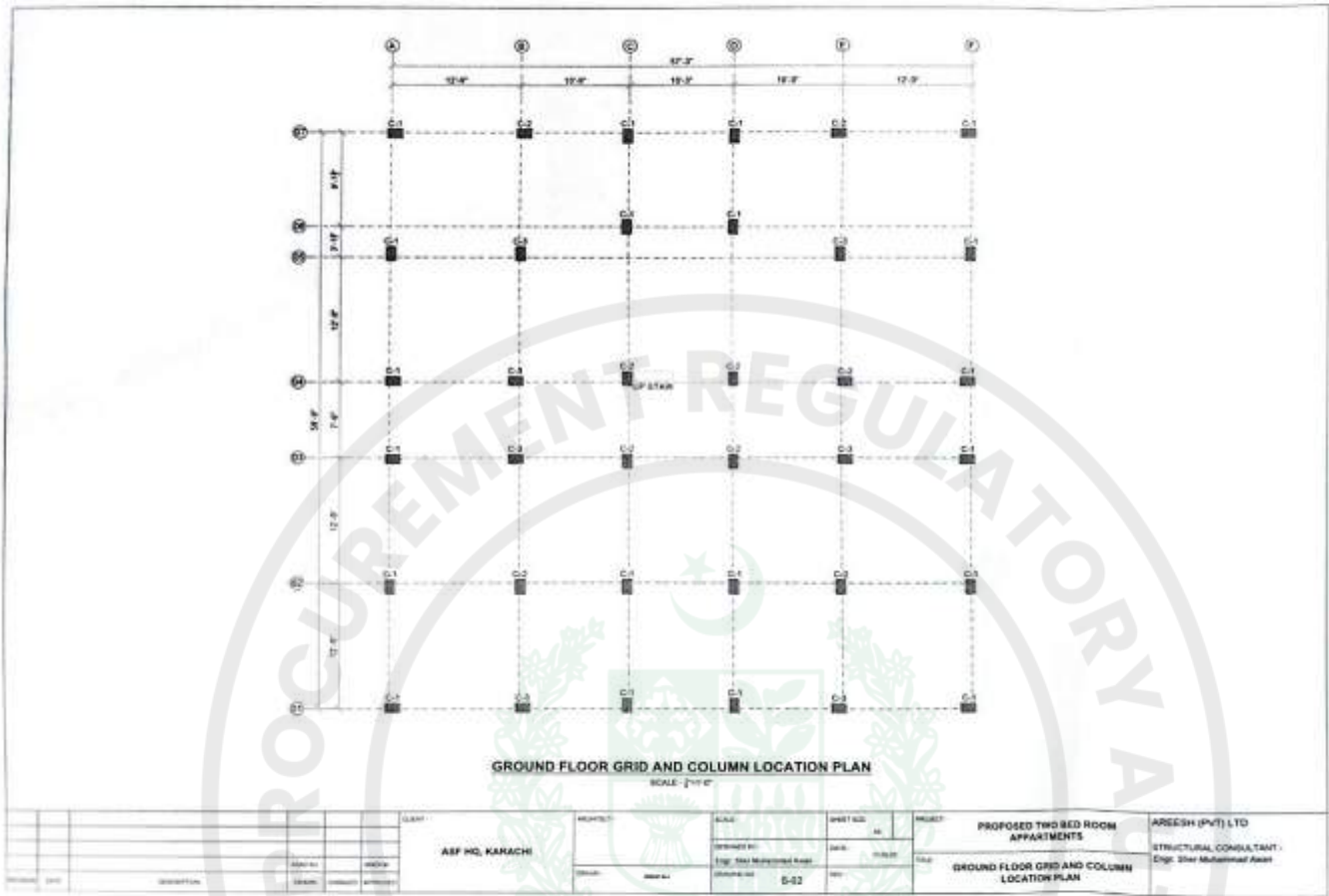
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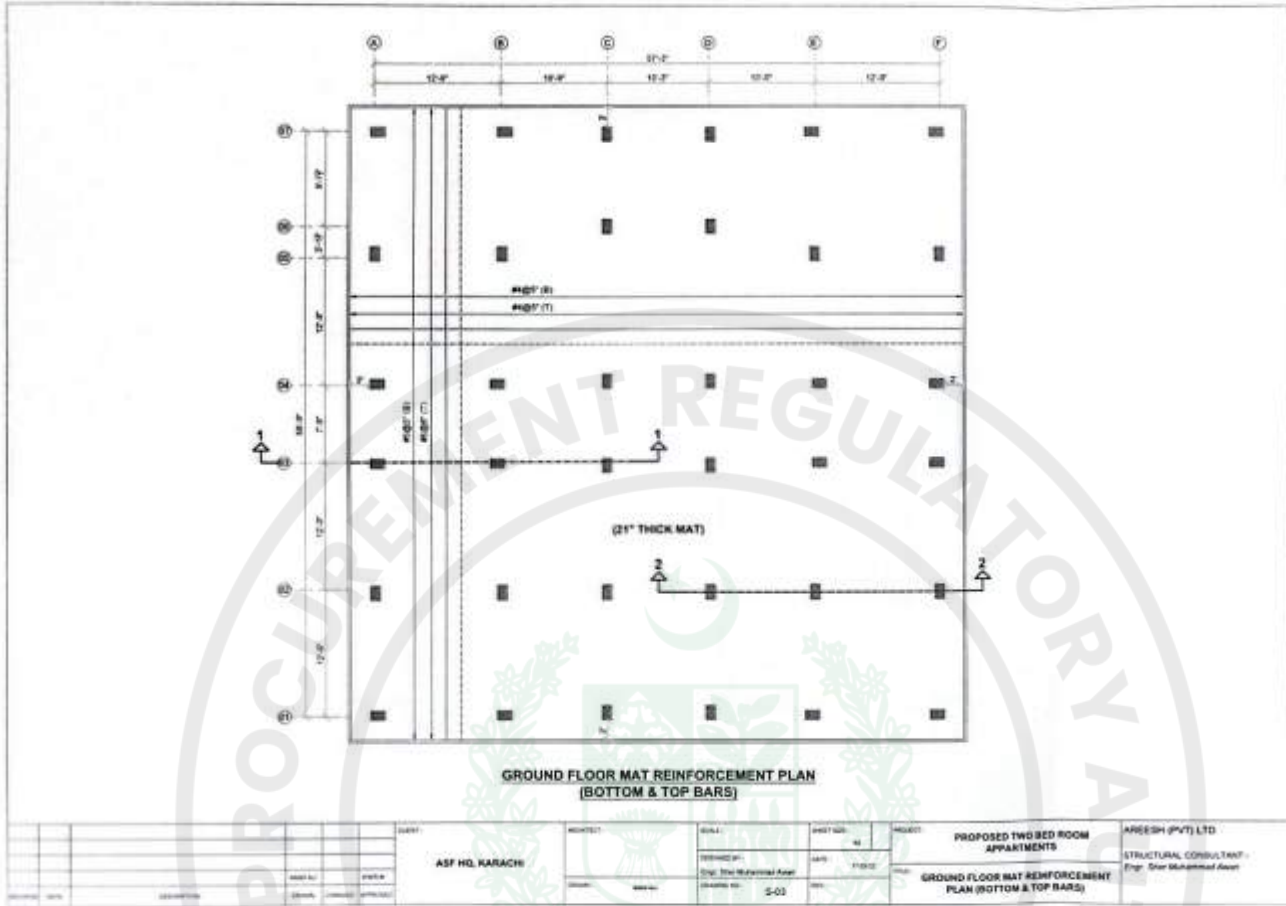
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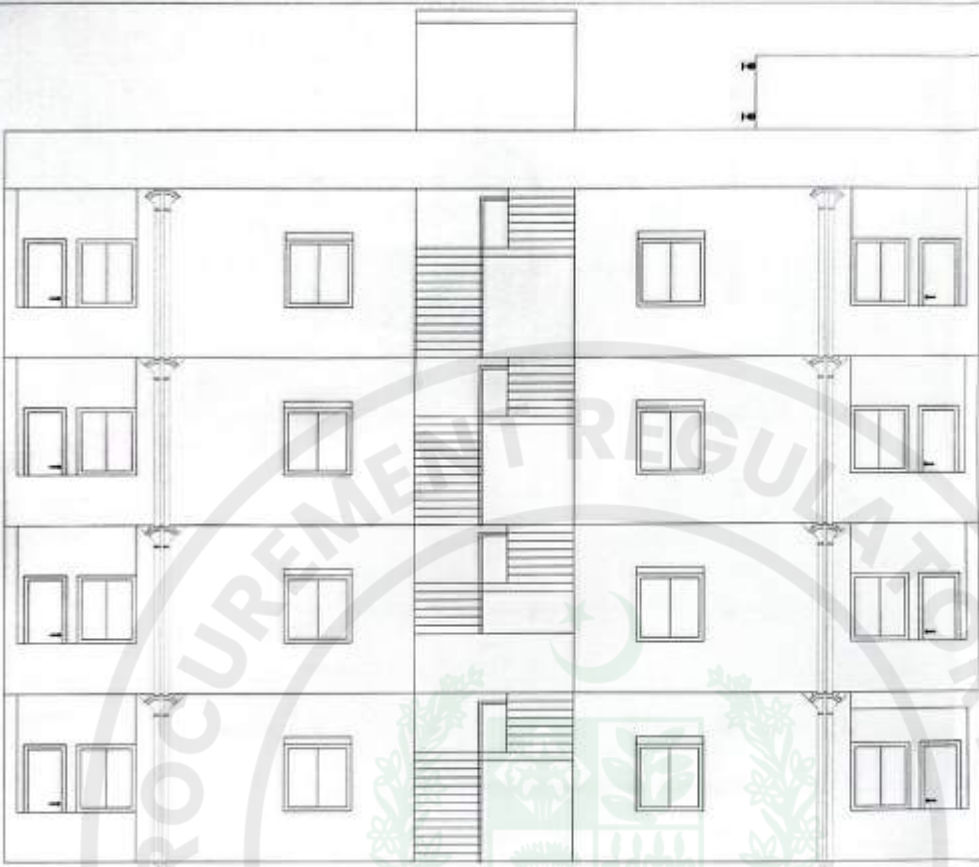
For P.A.A



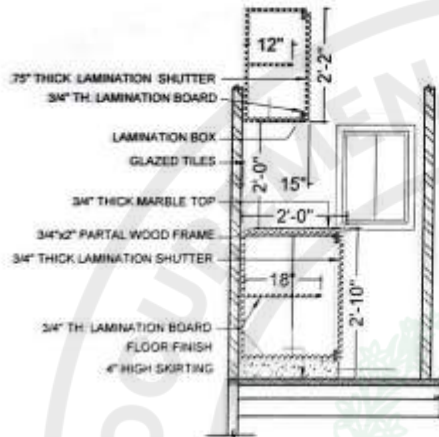
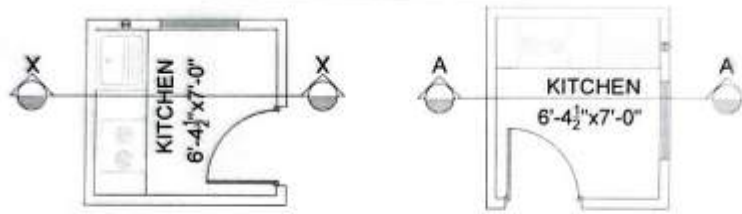
For P.A.A



For P.A.A.

		SHEET NO. 01 DATE: 11/01/22		PROJECT: TWO BED ROOM APARTMENTS ISLAMABAD FRONT ELEVATION		AREESH (PVT) LTD OFFICE: 116, SECTOR 8 ISLAMABAD PHONE: +92 342 9988888 areesh.com.pk 402 22006, 4040 20070 
		CLIENT: ASF HQ KARACHI PROJECT: HSGA DESIGNER: AREESH PVT LTD DRAWN BY: Haroon Ali CHECKED BY: A-GE				
REVISION	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED	

KITCHEN DETAIL

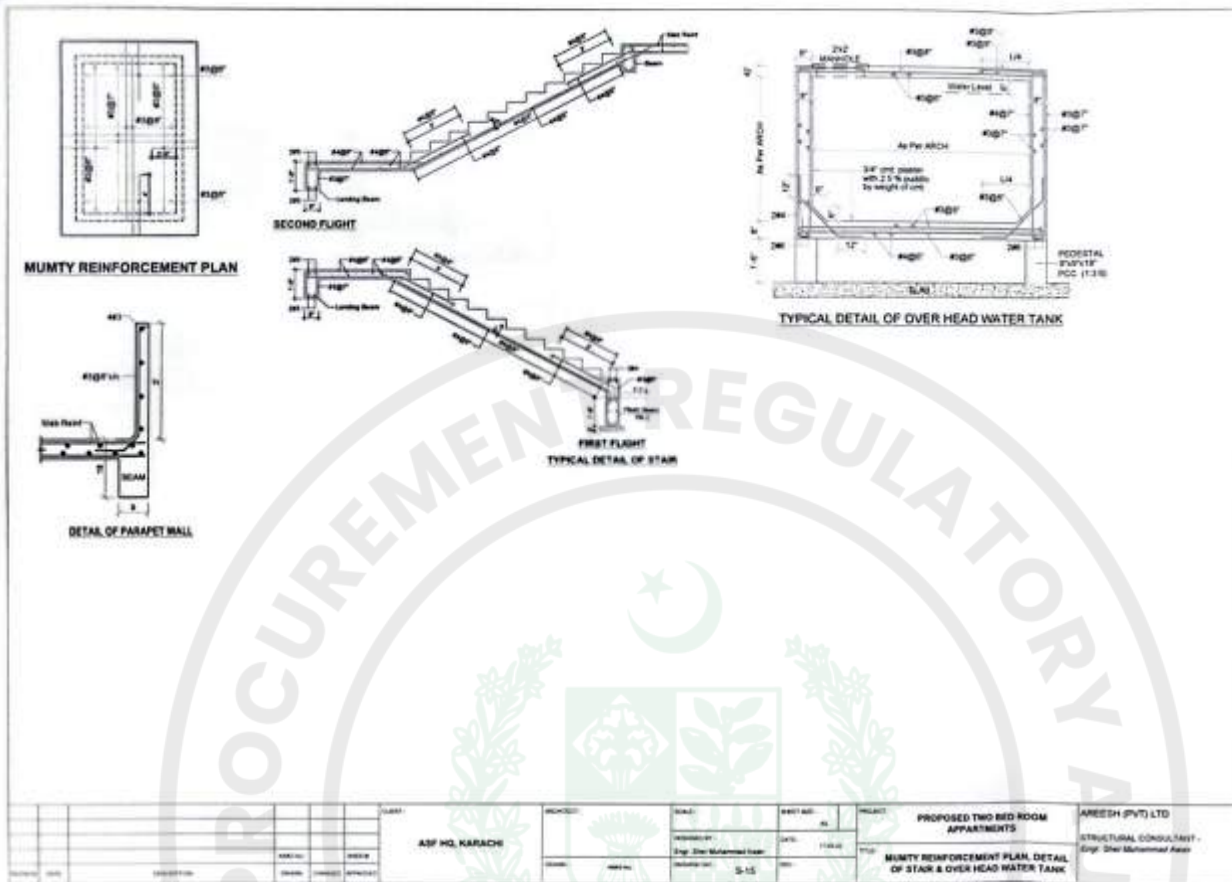


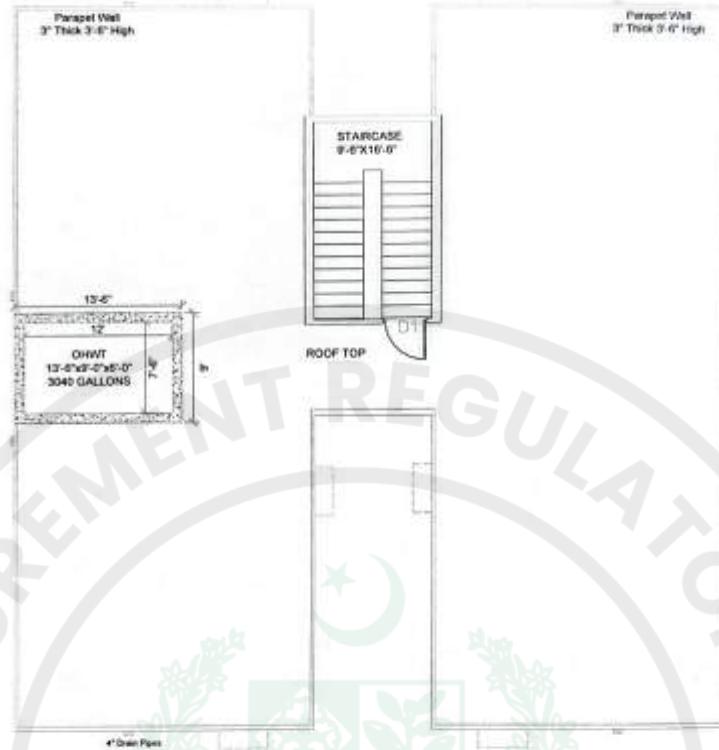
SECTION AT X-X



SECTION A-A

ASF HQ KARACHI				HSGA		AREESH PVT LTD		TWO BED ROOM APARTMENTS ISLAMABAD		AREESH (PVT) LTD	
Haseem Ali				A-02		KITCHEN ELEVATION PLAN		OFFICE: 1110, SECTOR D-11, PHASE-1 11100, ISLAMABAD WWW.AREESH.COM 011-26264444			

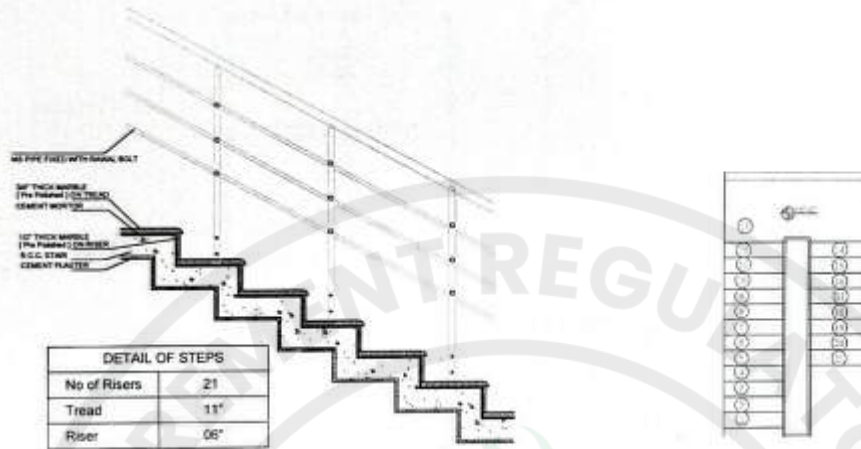




**TWO BED ROOM APARTMENT
MUMTY FLOOR LAYOUT PLAN**

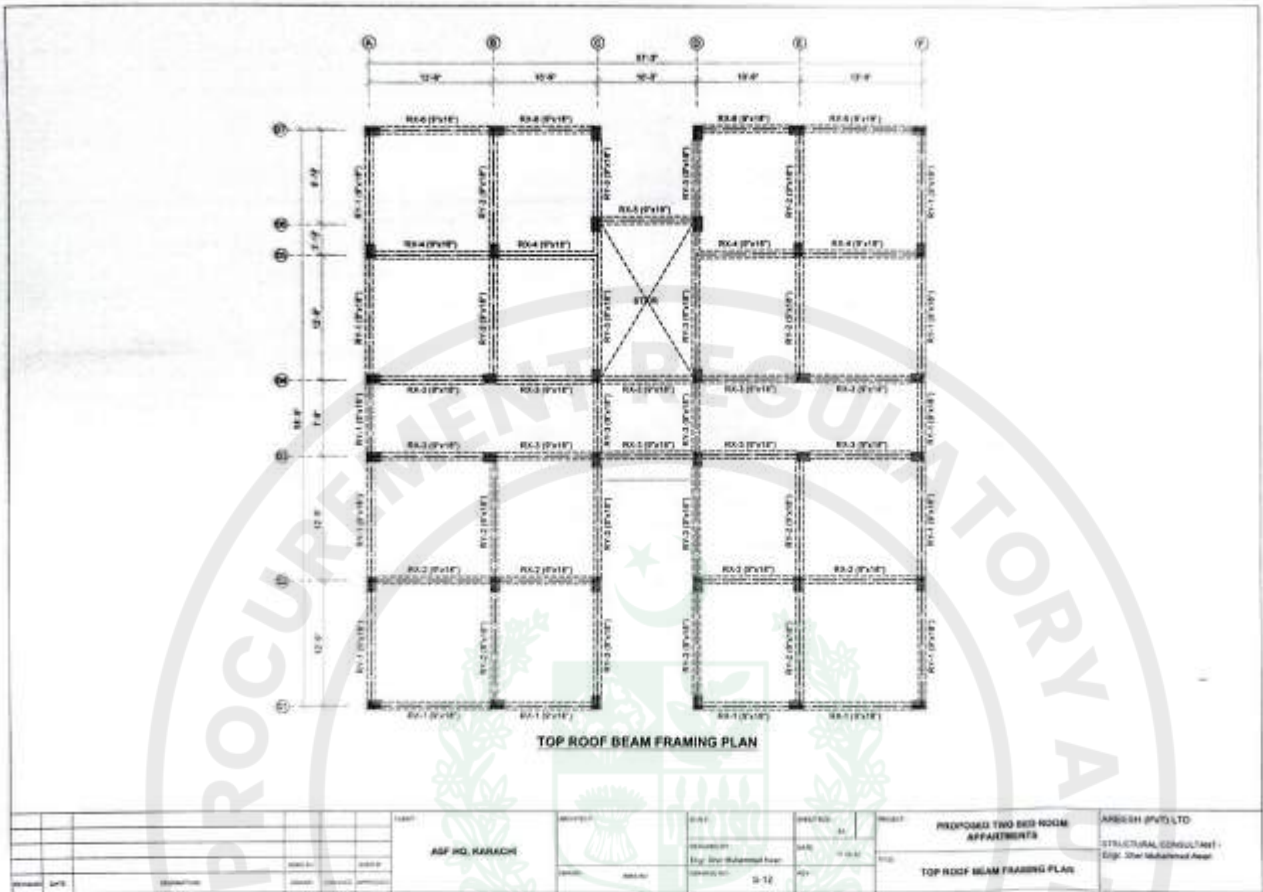
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				ASF HQ KARACHI		HSGA		AREESH PVT LTD		TWO BED ROOM APARTMENTS ISLAMABAD		
				DRAWN:		DESIGNED:		REV:		TOTAL:		MUMTY FLOOR PLAN
				Haroon Ali		A-03						

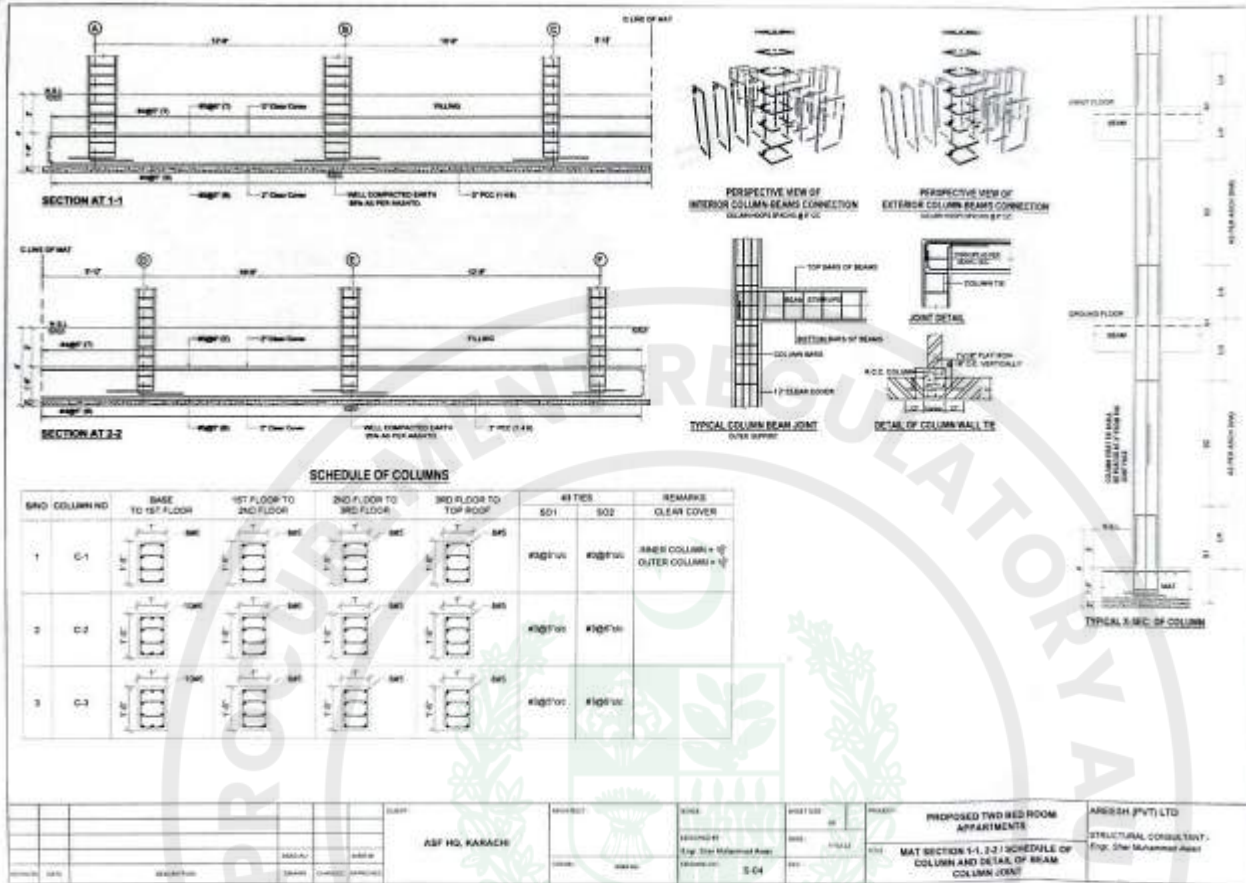
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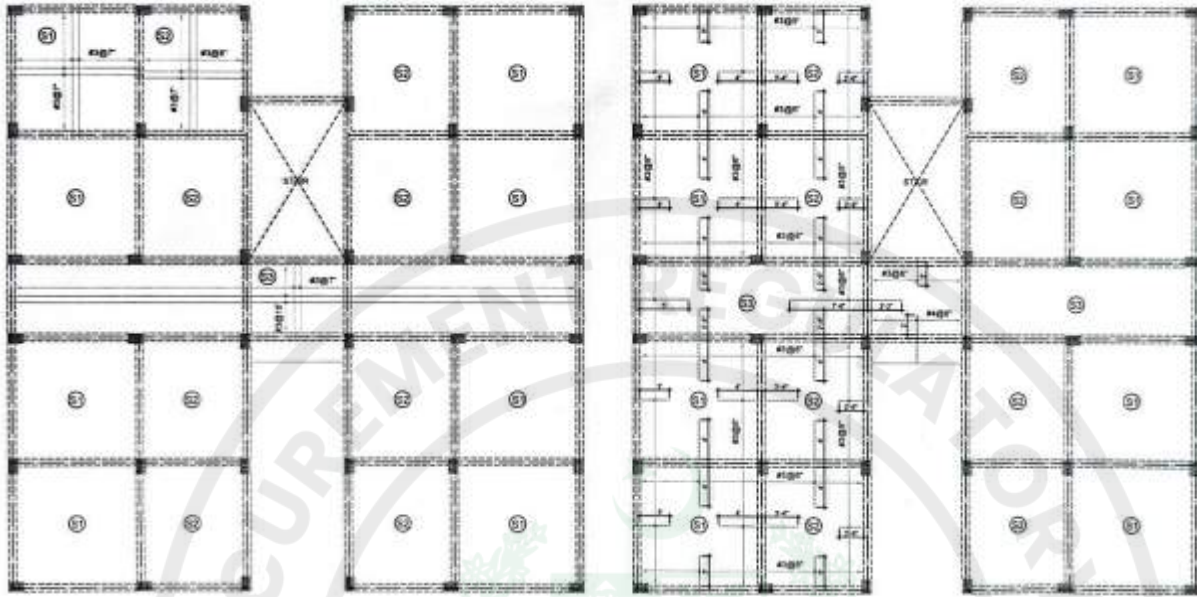


ASST. SECY				CLIENT:		PROJECT:		SHEET NO.:		PROJECT:		AREESH (PVT) LTD	
DESCRIPTION				ASST. SECY		HSGA		AL		TWO BED ROOM APARTMENTS		ISLAMABAD	
DESIGN				HARON ALI		AREESH PVT LTD		P-10		STAIR		STAIR DETAIL PLAN	
APPROVAL				A-10		A-10		A-10		A-10		A-10	

Team







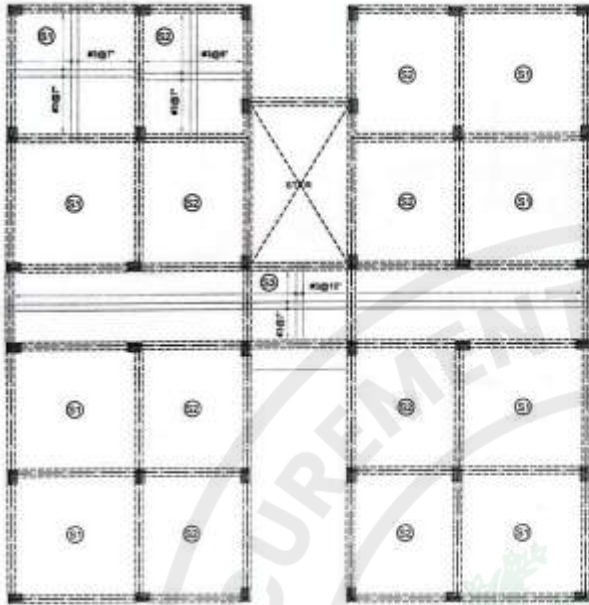
TOP ROOF REINFORCEMENT PLAN (BOTTOM BARS)

TOP ROOF REINFORCEMENT PLAN (TOP BARS)

NOTES

- 1- ALL SLABS ARE 5" THICK EXCEPTED NOTES OTHERWISE.
- 2- BENDING BARS #10@12" ON WHATEVER REQUIRED.

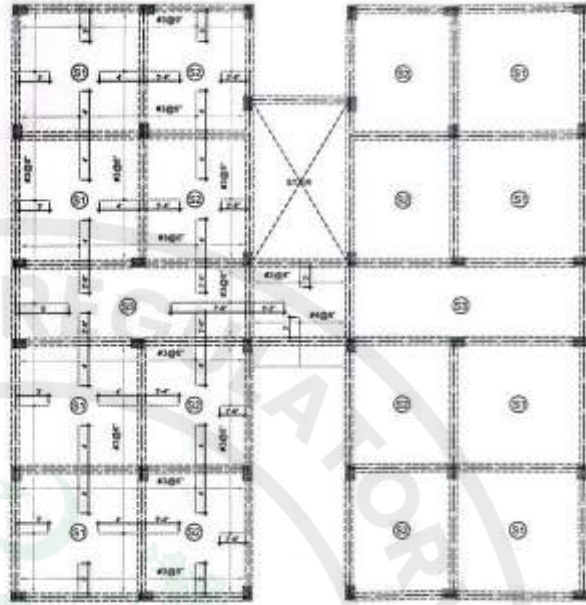
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				ASPI HQ KARACHI				NO.		PROPOSED TWO BED ROOM APARTMENTS		AREESH (PVT) LTD							
				DESIGNED BY				DATE		12-04-2022		TITLE		TOP ROOF REINFORCEMENT PLAN (BOTTOM & TOP BARS)				STRUCTURAL CONSULTANT:	
				Top. Eng. Muhammad Asad														Engr. Iftikhar Muhammad Asad	
				DRAWN BY				REV.											
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TYPICAL 2ND & 3RD FLOOR REINFORCEMENT PLAN (BOTTOM BARS)

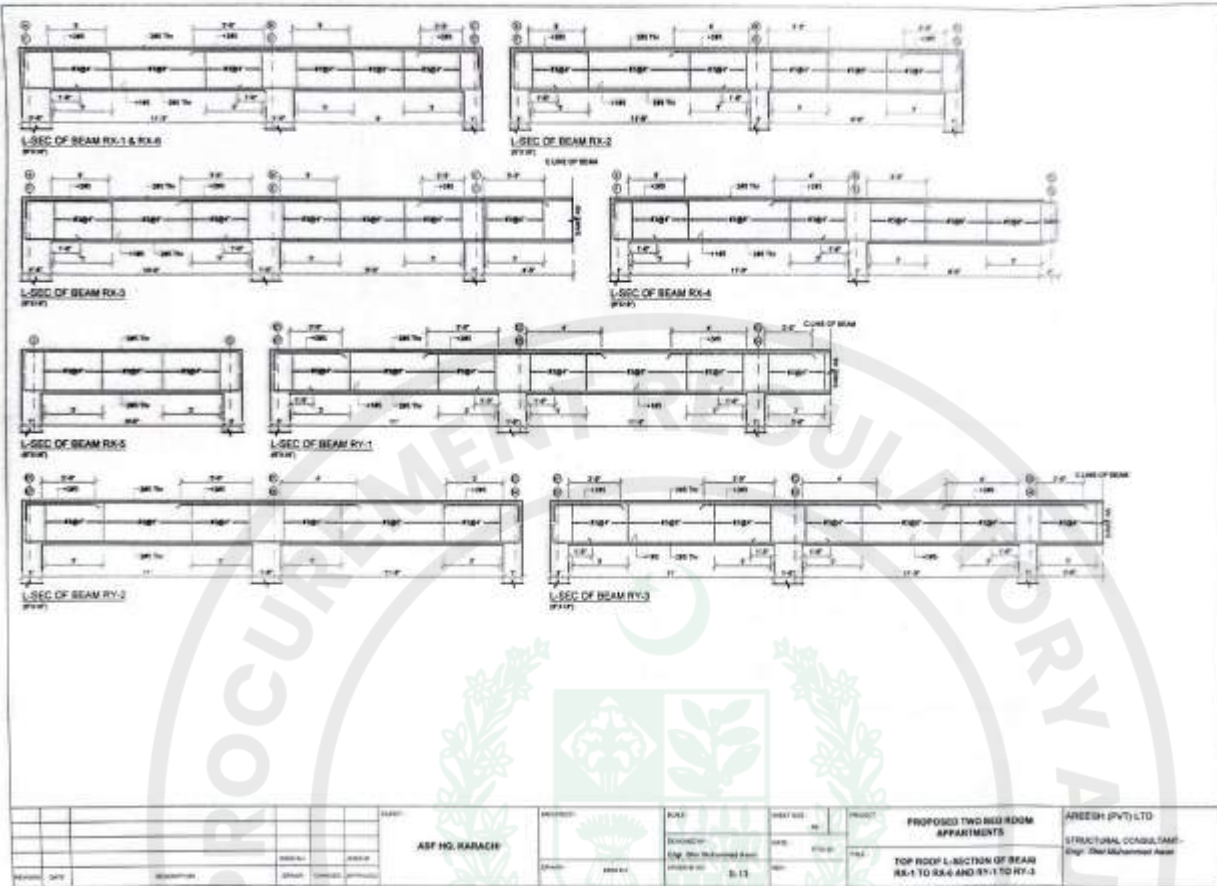
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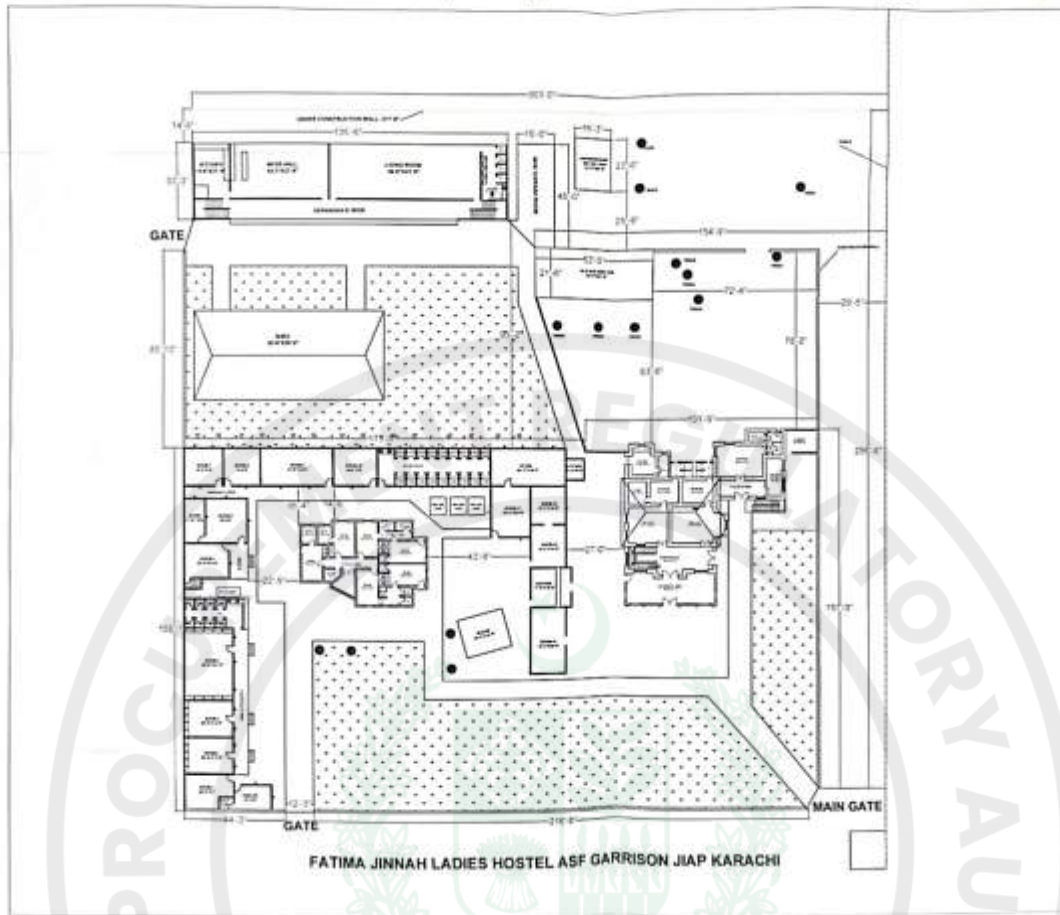
1. ALL SLABS ARE 1" THICK EXCEPTED NOTED OTHERWISE.
2. BENDING BARS #10@12" WHEREVER REQUIRED.



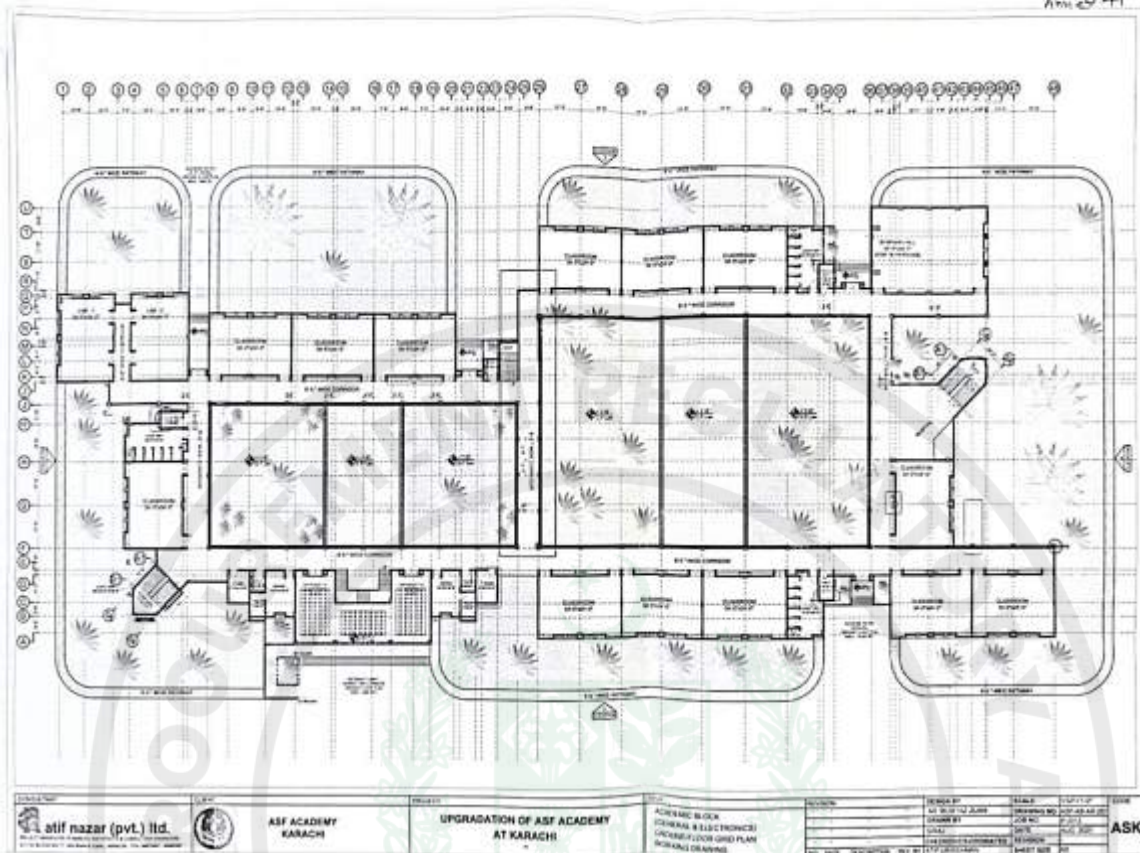
TYPICAL 2ND & 3RD FLOOR REINFORCEMENT PLAN (TOP BARS)

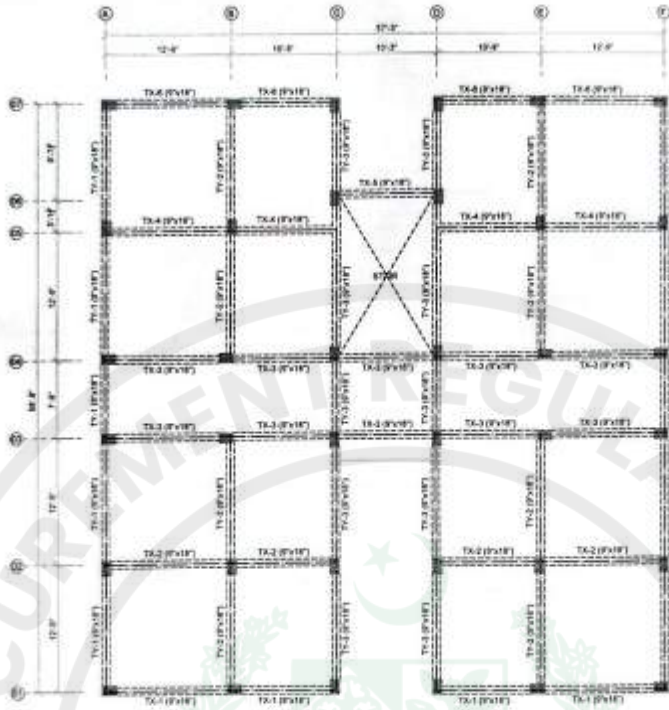
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DATE: 01/01/2024	DESIGNED BY: [Signature]	CHECKED BY: [Signature]	APPROVED BY: [Signature]	DATE: 01/01/2024	PROJECT: TYPICAL 2ND & 3RD FLOOR REINFORCEMENT PLAN (BOTTOM & TOP BARS)	





Annex-H

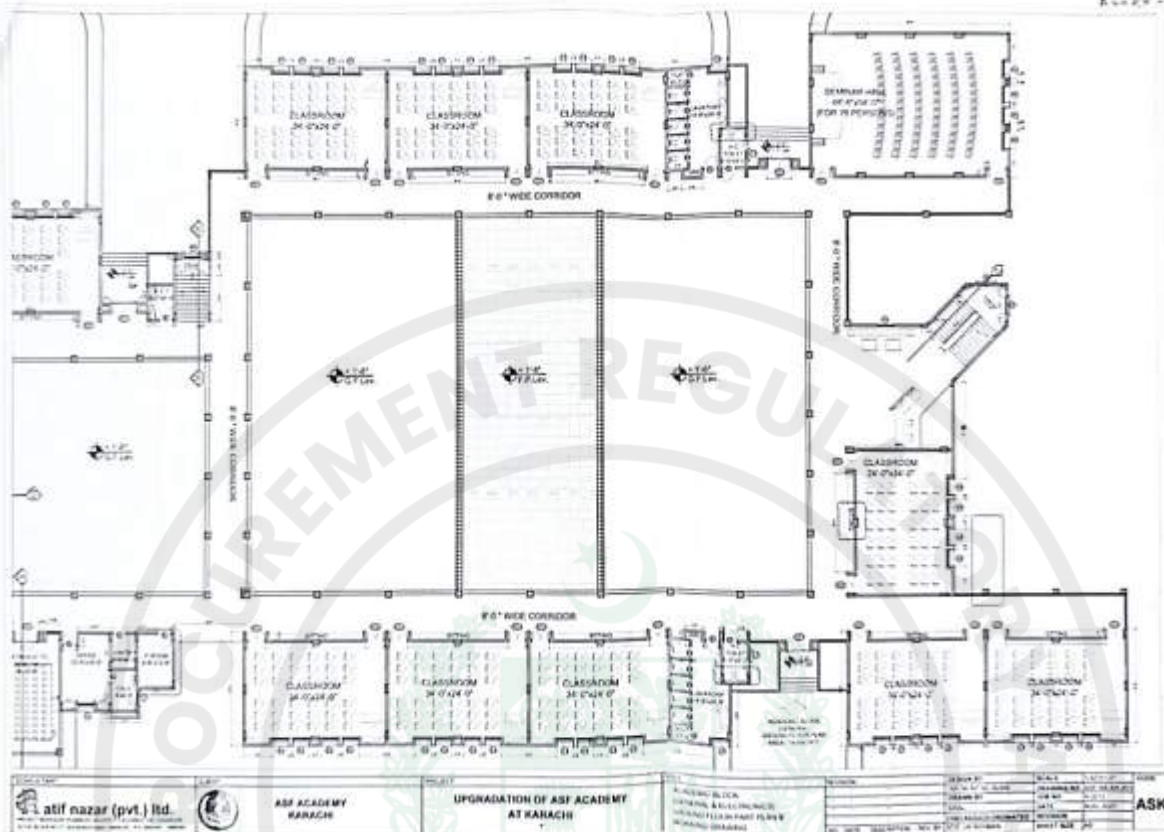


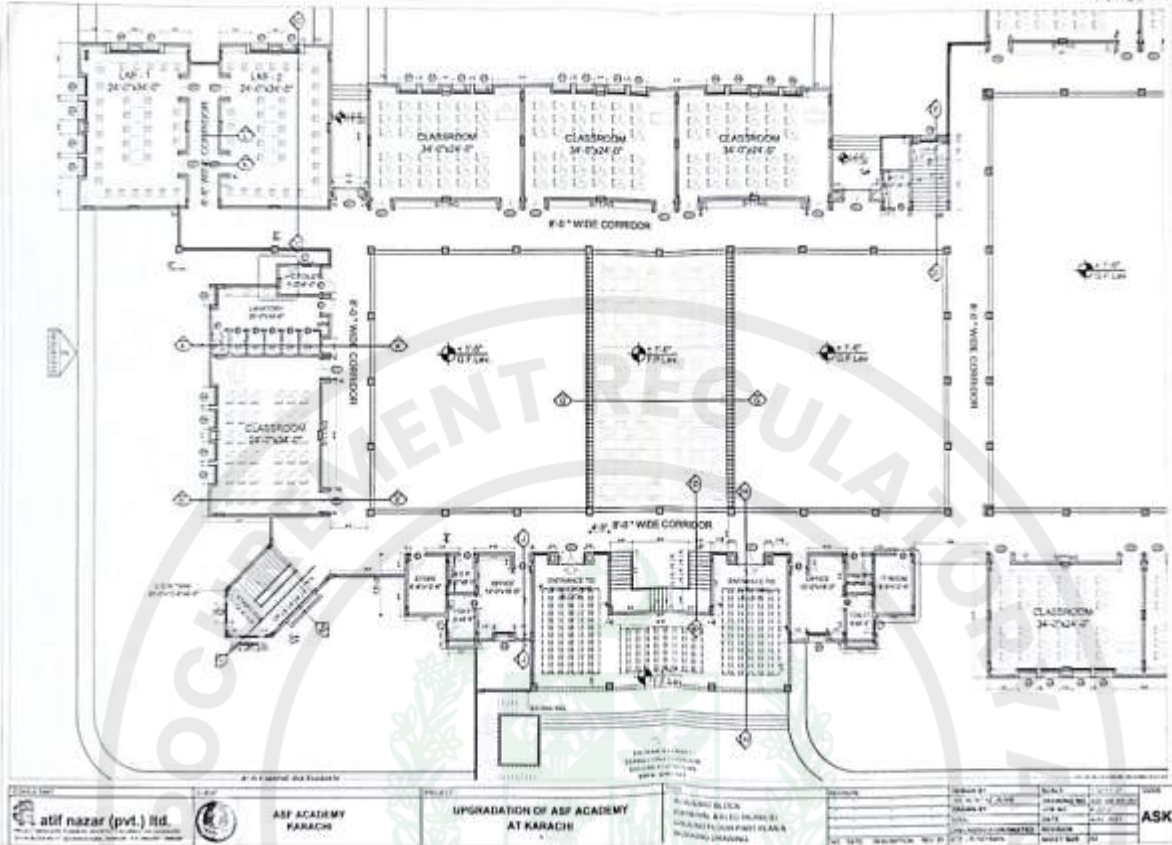


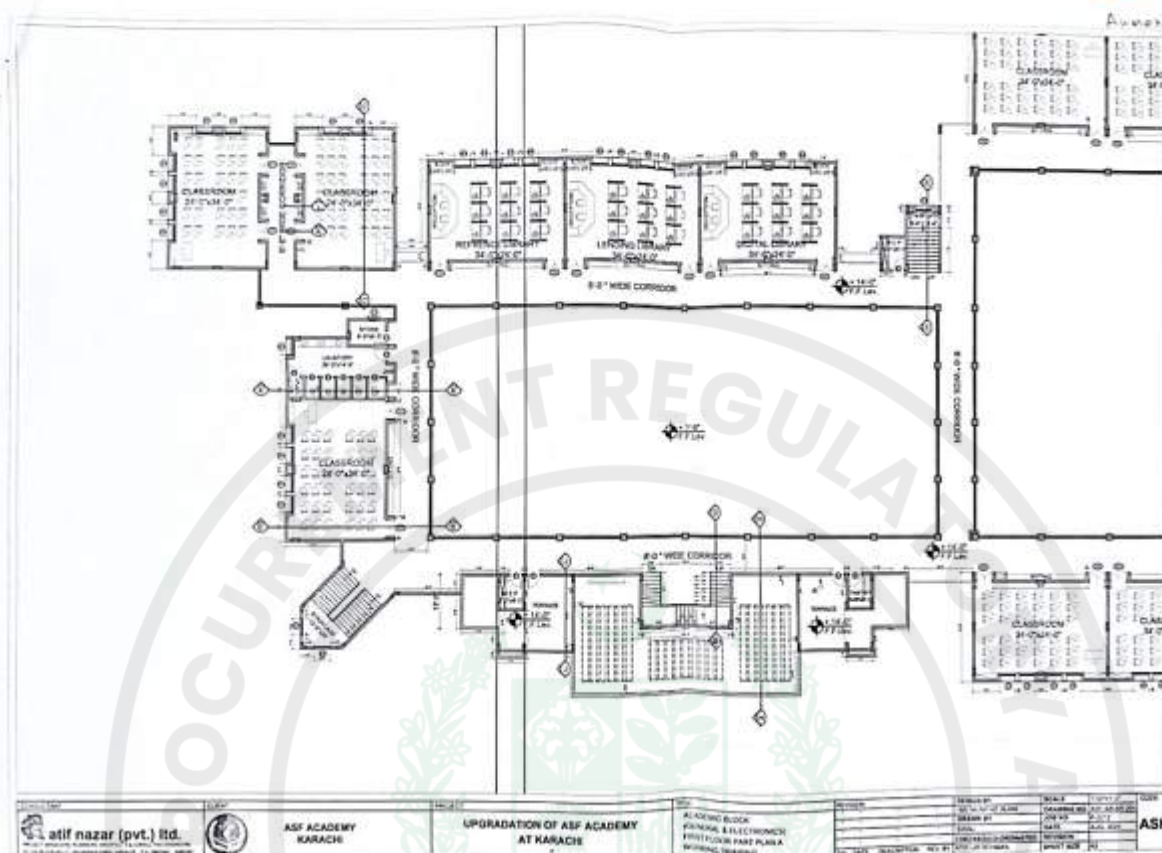
TYPICAL 2ND & 3RD FLOOR BEAM FRAMING PLAN

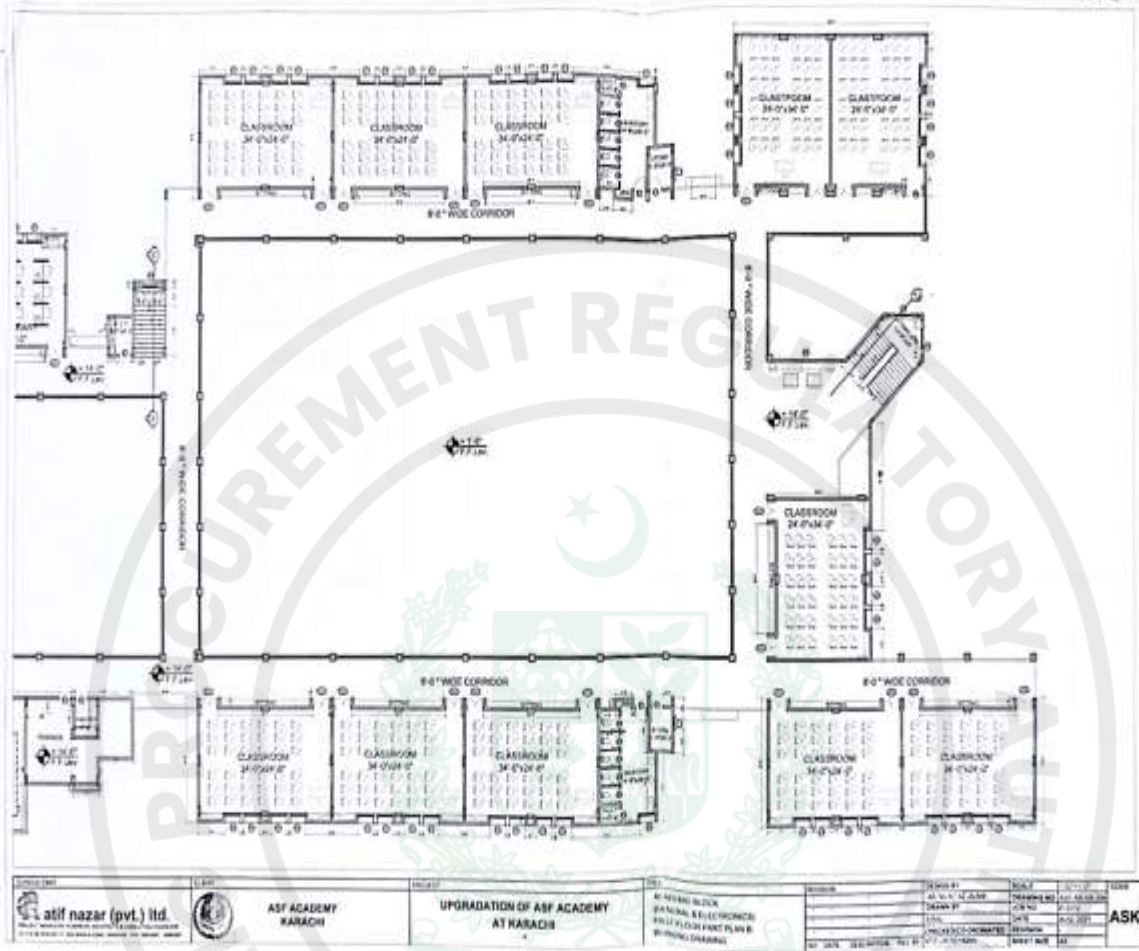
PROJECT		SUBJECT		DRAWN		CHECKED		APPROVED		PROPOSED TWO BED ROOM APARTMENTS		ARIESH (PVT) LTD	
ASIF HQ, KARACHI		STRUCTURAL CONSULTANT		DATE: 11.02.22		BY: 11.02.22		TYPICAL 2ND AND 3RD FLOOR BEAM FRAMING PLAN		Engr. Shah Muhammad Aslam			

For P.A.A











VERSION :	2.0
DATE OF IMPLEMENTATION :	15-03-2017
OFFICE OF PRIME INTEREST :	Directorate of Safety & Quality Management System (SQMS)
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For PAA

Chapter 1

INTRODUCTION

1.1. INTRODUCTION

Integrated Management System comprising International Management System standards ISO 9001: 2008 (Quality Management System), ISO 14001: 2004 (Environmental Management System), OHSAS 18001: 2007 (Occupational Health and Safety Management System), and ICAO's SMS (Safety Management System) has been implemented in Pakistan PAA. These standards require adherence from all the stakeholders to fulfill their respective obligations towards vital aspects of Safety, Quality, Occupational Health and Environment. This HSE Manual outlines the responsibilities of contractors, suppliers and concessionaires working for PAA or on the areas under PAA's jurisdiction

1.2 PAA IMS POLICY

Top Management commitment is demonstrated in IMS Policy, attached as **Appendix-A** (English version) and **Appendix-B** (Urdu version).

1.3 RESPONSIBILITY & AUTHORITY

1.3.1 RESPONSIBILITY FOR HSE COMPLIANCE:

- 1.3.1.1 PAA shall require Contractors and/or Sub-contractors / Suppliers / Concessionaires to affirm that all supervisors are responsible for ensuring that the works / activities are performed in accordance with all applicable health, safety and environmental rules, regulations and good working practices with equal diligence being paid to the fulfillment of the contractual technical specifications. PAA will require Contractors and Sub-contractors to advise such personnel of their safety responsibilities. Contractors / Suppliers / Concessionaires shall also provide PAA with their organizational setup for a particular contract / subcontract / renewal / bid invitation document, where applicable, specifying the areas of safety responsibilities of their supervisors.
- 1.3.1.2 **All DDGs** shall ensure imparting necessary directions and establish requisite monitoring & evaluation mechanism in their respective area of responsibilities to fulfill the vision and the objectives contained in this manual.
- 1.3.1.3 **The concerned Directors / Additional Directors / Airport Managers / Chief Operations Officers / Location Heads / Sectional Heads**, involved / engaged in the purchase of materials, services and contracts (including sub- contracts, if any), shall ensure effective implementation of this manual. They shall also be responsible to designate **Contract Coordinators** where applicable especially on large scale projects.
- 1.3.1.4 **Contract Coordinator** (a designated PAA Employee) shall be responsible for the on-site implementation of HSE requirements by the contractors and their officials / workers. He shall also be responsible to record on-site management activities and meetings specific to the HSE issues.
- 1.3.1.5 **Deputy Management Representatives (DMRs)** shall be responsible to oversee the implementation and effectiveness of this manual at their respective Airports / ATS Units / Locations.
- 1.3.1.6 The concerned **Directors / Additional Directors / Airport Managers / Chief Operations Officers / Location Heads / Sectional Heads**, involved / engaged in the purchase of materials, services and contracts (including sub- contracts, if any), shall ensure incorporation of specific clause(s) on Safety, Health & Environment in the contract agreements or their renewals / bid invitation documents indicating the need for compliance with the detailed guidelines as outlined in this manual.

- 1.3.1.7 All Safety, Health and Environment requirements contained in this manual shall also be made part of the bid invitation documents / contracts.
- 1.3.1.8 Any specific requirements not covered in this manual and in the existing HSE clause of the contract / lease agreement may be specified in the contract / lease documents by the respective PAA functions, in consultation with Additional Director SQMS (REG/CF), Additional Director SQMS (ANS/APS) at HQPAA and concerned DMRs at Airports / ATS Units / Locations. These may include but not limited to:
- Working procedures
 - Risk / impact assessment of the job
 - Requirements of transporting carrier, machinery / equipment and tools
 - Handling / packaging identification requirements
 - Information about the product composition
 - Compliance to the related Safety, Health & Environment procedures for performing the activity
 - Usage of Personal Protective Equipment (PPE)
 - Competence / training requirements of workers
 - Handling and disposal of waste, etc
 - The need to obtain Permit To Work (PTW), where required
 - Emergency procedures
 - Accident / incident reporting
 - Legal requirements

- 1.3.1.9 The concerned Directors / Additional Directors / Airport Managers / Chief Operations Officers / Location Heads / Sectional Heads may ask the supplier / contractor / concessionaire to carry out a **risk assessment** before awarding a contract for high-risk tasks, where applicable.

1.3.2 **ONSITE MANAGEMENT OF CONTRACTORS FOR MEGA / MAJOR PROJECTS:**

- 1.3.2.1 The concerned DDGs / Directors / Additional Directors / Airport Managers / Chief Operations Officers / Location Heads / Sectional Heads shall ask the contractor / supplier / concessionaire to designate a **Safety Officer** wherever applicable, depending upon the quantum of contract, who shall be the focal person and responsible for on-site implementation of HSE requirements on part of contractors / suppliers / concessionaires. For Contracts / Agreements of smaller quantum, the contractor / supplier / concessionaire shall be directly responsible in this regard without having the need to designate such representatives.
- 1.3.2.2 The concerned Directors / Additional Directors / Airport Managers / Chief Operations Officers / Location Heads / Sectional Heads shall be responsible to nominate a representative (**Contract Coordinator**) for on-site management of contractors for mega / major projects. The contract coordinator / representative shall monitor the HSE compliance by the contractor / supplier. This includes monitoring of:
- Controls to prevent HSE risks
 - Contractor equipment for appropriateness
 - Compliance of work procedures
 - Waste Disposal & Record keeping

- e. Compliance of regulatory requirements, to this HSE Manual or their own HSE Manual(s) if exceeding the requirement stipulated by the PAA and PTW by contractors / suppliers / concessionaires
- 1.3.2.3 **Regular on-site meetings with the contractor** must be convened / held to discuss the HSE compliance and related aspects of the job. Records of such meetings and on-site management activities must be maintained by the Contract Coordinator.
- 1.3.2.4 **HSE audit or on-site inspections** shall be carried out randomly by the authorized Inspectors of SQMS Directorate in coordination with the concerned Directorate / Branch at HQ PAA and concerned Section at airports / locations for checking HSE compliance. IAR (Improvement Action Report) on **PAAF-002-MSXX** shall be raised/ generated in case any non-conformity is observed or if any corrective or preventive action is required. All proceedings of the audit or on-site inspections shall be documented by the respective inspectors.
- 1.3.2.5 All the works, purchase / supplies and services being carried out / rendered by Contractors / Suppliers / Concessionaires shall be liable to monitoring and supervision by PAA's authorized / designated official(s) to ensure their HSE- worthiness. Surprise inspection may be carried out at any time by SQMS Officials.
- 1.3.2.6 The monitoring / supervision so required shall be made under the relevant clause(s) of the contract. The performance monitoring data of contractors with regard to compliance to HSE manual and PAAO will be collected / maintained and documented on periodical basis by the respective DDGs as well as by SQMS Directorate / SQMS teams at locations, to develop necessary corrective/ preventive actions accordingly. This significant data of a particular contractor/ supplier / concessionaire, will be critically observed and be given due consideration at the time of awarding / continuation / renewals etc of any contract.
- 1.3.2.7 All potential Contractors, Suppliers and Concessionaires shall be informed about the availability of HSE manual which would require compliance from them. The latest version of this Manual shall be posted on the PAA's Official Website www.PAApakistan.com.pk.
- 1.3.2.8 The concerned Directorate / Branch / Airport / Location shall provide the hard copy of the latest version of HSE Manual to the Contractors / Suppliers / Concessionaires at the time of signing of the Contract Agreements / License Agreements / Lease Deeds / Purchase Orders / Supply Orders, etc.
 - a. No work be executed without supervision of concerned representation of OPI Section / Branch, especially at aerodrome.
 - b. The representation of OPI section / function shall ensure implementation of preventive control measures during execution of work and corrective measures in case of any abnormal / emergency situation.
 - c. All food concessionaires shall preferably be certified in Food Safety Management System ISO 22000: 2017.
- 1.3.2.9 In case of existence of any Contractor's, Supplier's and Concessionaire's HSE Manual having provisions more stringent to this HSE manual, those shall be applicable as far as the currency of that particular contract is concerned.
- 1.3.2.10 All the Contractors, Suppliers and Concessionaires shall be responsible to provide and update bare minimum training / awareness on HSE to their employees and subsequent implementation. Any breach / violation thereof by any of such employee(s) shall be construed upon to be on behalf of that very Contractor, Supplier and Concessionaire. Records pertaining to HSE related training / awareness shall be maintained and provided to concerned PAA official(s) designated by the OPI and/or Representative(s) of PAA's SQMS team.

1.3.2.11

The training / awareness described above shall include but not limited to the following:-

- a. Site acquaintance (i.e. Aerodrome / Building layout, Building Evacuation Procedure, etc).
 - b. General aerodrome layout & hazards and handling of standard equipment.
 - c. HSE related operational hazards / environmental aspects and risks / environmental impacts associated and related control measures with the particular contract / agreement.
 - d. Basic First Aid and other corrective measures.
 - e. Application of Permit to Work / Lock Out and Tag Out.
 - f. Special MSDS, classification / composition of hazardous material for handling of hazardous material.
 - g. Incident(s) / accident(s) including environmental incidents (spills, etc) reporting.
 - h. Waste management.
 - i. Basic Fire Fighting.
 - j. Safe driving.
 - k. Response in emergency.
 - l. Personal Protective Equipment (PPE).
-

Chapter 2

GENERAL INFORMATION

2.1 BASIC SAFETY & SECURITY RESTRAINTS

- 2.1.1 The following are some basic safety & security restraints. In case of violation of any of these, Contractors / Suppliers / Concessionaire shall be dealt with in accordance with **Rule 91 (Section 10) of CARs 94**:
- 2.1.1.1 Possession or use of alcoholic beverages or illegal drugs.
 - 2.1.1.2 Possession of un-authorized explosives, firearms, ammunition, and other weapons.
 - 2.1.1.3 Violation of any safety or security rules or requirements as laid down in **Part VIII, Section 10 of CARs, 94 (Rule 92-110)**.
 - 2.1.1.4 Illegal dumping, handling, or disposal of hazardous materials.
 - 2.1.1.5 Demolition or removal, without written permission, of any property belonging to PAA.
 - 2.1.1.6 Intimidating, threatening, harassing, impeding or interfering with PAA employee(s) or designated representative(s).
 - 2.1.1.7 Misuse of fire prevention and protection equipment.
 - 2.1.1.8 Unauthorized removal or destruction of a safety barricade, handrail, guardrail, warning sign, fall protection, or other warning devices intended to protect employees or property.

2.2 SAFETY PERMITS

- 2.2.1 All PAA contractors, suppliers or concessionaires shall obtain prior approval for PTW from PAA's authorized / designated official(s) and follow all the safety requirements, precautions, controls of PPEs classified as PTW related tasks as any of the operations mentioned below may present a hazard to people, property and environment.
- 2.2.1.1 Performing burning, welding, cutting, soldering, or other hot work.
 - 2.2.1.2 Working on fire protection / detection systems.
 - 2.2.1.3 Working on electrical, steam, chilled water systems or other energized systems.
 - 2.2.1.4 Installing a temporary electrical service.
 - 2.2.1.5 Working with hazardous chemicals (including solvents and paints).
 - 2.2.1.6 Handling, transporting or generating hazardous wastes (including hospital biological waste, waste oil, chemicals, condensate, etc).
 - 2.2.1.7 Using a gas, diesel, or LPG (such as Propane) powered engines.
 - 2.2.1.8 Working on gas pipe lines or associated equipment.
 - 2.2.1.9 Operating a power vehicle or self-propelled work platform.
 - 2.2.1.10 Excavation / trenching.
 - 2.2.1.11 Using radioactive sources or conducting field radiography (x -ray).
 - 2.2.1.12 Working with asbestos & asbestos – containing materials.
 - 2.2.1.13 Working on security systems.
 - 2.2.1.14 Working with compressed air / gases.
 - 2.2.1.15 Working on heating, ventilation, or air conditioning equipment.

- 2.1.1.16 Working with chemicals, polishing or grinding.
- 2.1.1.17 Working at heights of more than 06 feet or on roofs.
- 2.1.1.18 Entering or working in confined spaces like fuel tanks, trenches, service shafts, sewer system, etc.
- 2.1.1.19 Lifting or hoisting with cranes or hoists.
- 2.1.1.20 Blasting operations, etc.

2.3 PERFORMANCE MONITORING

- 2.3.1 The Contractors / Suppliers / Concessionaires shall monitor HSE performance of their employees and activities.
- 2.3.2 They shall in addition monitor all those performance monitoring actions agreed between PAA and the Contractors / Suppliers / Concessionaires.

2.4 HOUSE KEEPING

- 2.4.1 All Contractors / Suppliers / Concessionaires shall maintain good housekeeping by keeping work areas neat, clean, orderly, free of excess trash, debris and shall block walkways, stairs, exits, or create a tripping hazard. Poor housekeeping at a job site may lead to an increased potential for safety hazards and an increased frequency of accidents, falls, cuts, spills, leaks, fires or electrocution.
- 2.4.2 Tools, wires, materials shall not be left or haphazardly spread out at the work place.
- 2.4.3 Open holes, trenches, or excavations into which people may fall shall be identified, covered or provided with guardrails.
- 2.4.4 In order to protect the employees and environment, safety blinding shall be provided at all works execution sites, where necessary.

2.5 REPORT OF ACCIDENT, INCIDENT, INJURY OR ILLNESS

- 2.5.1 The area representatives of contractor shall inform fire, electrical, civil inquiries officials each day before start of work.
- 2.5.2 All work related accidents, incidents, fatalities, injuries, and illnesses must immediately be reported to the PAA authorized / designated officials.
- 2.5.3 Every incident / accident happened during execution of contractors work shall properly be analyzed as per **PAA0-015-MSXX** and if fall in Major / Catastrophic categories be published / mentioned in IOU report by the OPI Section / Branch.

Chapter 3

HAZARDOUS WASTE

3.1 HAZARDOUS WASTE MANAGEMENT

- 3.1.1. Hazardous waste generated by a Contractor / Supplier / Concessionaire as part of its work must be properly identified, stored and disposed in accordance with applicable laws / rules / regulations. The Contractor / Supplier / Concessionaire must coordinate with PAA representative(s) of relevant sections to provide a list of hazardous waste(s) which is / are likely to be generated during the project / activity, and to determine the location(s) for hazardous waste storage.
- 3.1.2 The Contractor / Supplier / Concessionaire must also ensure, at a minimum:
- 3.1.2.1 Proper labeling in terms of MSDS.
 - 3.1.2.2 Adequate secondary containment.
 - 3.1.2.3 Segregation of incompatible materials.
 - 3.1.2.4 Routine inspection of storage areas.
- 3.1.3 In addition, all hazardous waste containers shall be constructed of a material compatible with the waste, in sound condition, and kept securely closed to avoid spill or leakage.

3.2 WASTE DISPOSAL DOCUMENTS

The Contractors / Suppliers / Concessionaires shall be responsible for completing all waste disposal documents as per statutory / regulatory requirements, where applicable and as required by PAA. This may relate to PAA's own waste that is periodically removed for further disposal purposes, or waste created by Contractor / Supplier / Concessionaire while performing a task at PAA premises / areas under PAA's jurisdiction. OPI shall also ensure all normal wastes are also removed by the contracts.

3.3 TRAINING

Contractor / Supplier / Concessionaire must ensure that their employees are appropriately trained in hazardous waste management procedures. In the event a Contractor / Supplier / Concessionaire encounters unidentified material that is reasonably believed to be hazardous (radioactive, volatile, corrosive, flammable, explosive, magnetic, infectious, toxic), the Contractor / Supplier / Concessionaire shall immediately stop work in the affected area and report the condition to the PAA's authorized / designated official(s). At no time shall such material be disposed in chutes, drains, pipes or in any other unauthorized manner.

3.4 TRANSPORTATION AND DISPOSAL OF HAZARDOUS MATERIALS

- 3.4.1 Transportation of hazardous materials on PAA property shall be conducted in accordance with PAA specified instructions. It shall not be disposed to burn or be used in a manner that is harmful to people or environment. While transporting hazardous materials, Contractor / Supplier / Concessionaire shall ensure that no harm is done to people or environment because of poor containers, packing, covering, lashing, fixing, loading, stacking or improper vehicle or mode of transport.
- 3.4.2 All transportation of dangerous / hazardous goods and materials by air shall be conducted strictly in accordance with provisions of Part XVI, Sections 1-3 and 5-6 of the Civil Aviation Rules, 1994.

3.5 SPILL PREVENTION AND CONTROL

- 3.5.1 Based on the inventory of oil and hazardous chemicals that will be brought on-site, the Contractor / Supplier / Concessionaire shall have available equipment (e.g., secondary containment pallets, absorbent pads, absorbent booms, speed-dry etc.) that is suitable and sufficient to control a potential spill / release.

- 3.5.2 The Contractor / Supplier / Concessionaire is responsible for identifying outlets to the environment (e.g., sumps, sewers, storm / floor drains, etc.) and adequately minimizing spill potential to these areas.
- 3.5.3 The Contractor / Supplier / Concessionaire is responsible for the proper storage of all flammable and combustible chemicals that are brought and/or stored on site to complete the work. Such storage may require the use of safety containers, safety cabinets, and/or secondary containment.
- 3.5.4 The Contractor / Supplier / Concessionaire shall also ensure that any incompatible chemicals are safely segregated. The Contractor / Supplier / Concessionaire is Responsible for maintaining and securing all chemical containers and all chemical storage-areas. This requires selecting locations and methods to minimize exposure to rainfall, surface water, and the ground surface or subsurface.
- 3.5.5 The Contractors / Suppliers / Concessionaires must ensure that their employees are adequately trained in spill control procedures and are aware of the use of spill control kits.
- 3.5.6 In the event of a release or spill, the Contractor / Supplier / Concessionaire must immediately inform PAA's authorized / designated official(s).

3.6 AIR EMISSIONS

- 3.6.1 Any conditions discovered which could result in an increase in air pollutant emissions must immediately be reported to the PAA's authorized / designated official(s).
- 3.6.2 Contractors / Suppliers / Concessionaires activities should not cause unacceptable level of emissions (emissions not meeting NEQS – National Environmental Quality Standards).
- 3.6.3 Contractors / Suppliers / Concessionaires shall immediately notify the PAA's authorized / designated official(s) whenever they become aware of any unintentional or intentional release of CFCs (Chloro-Fluoro Carbons), Halons etc.

3.7 WASTE WATER DISCHARGES

- 3.7.1 Waste water must NOT include any corrosive, flammable, or toxic substances / hazardous liquid, etc.
- 3.7.2 Contractor / Supplier / Concessionaire must ensure no waste water is discharged that violates NEQS.

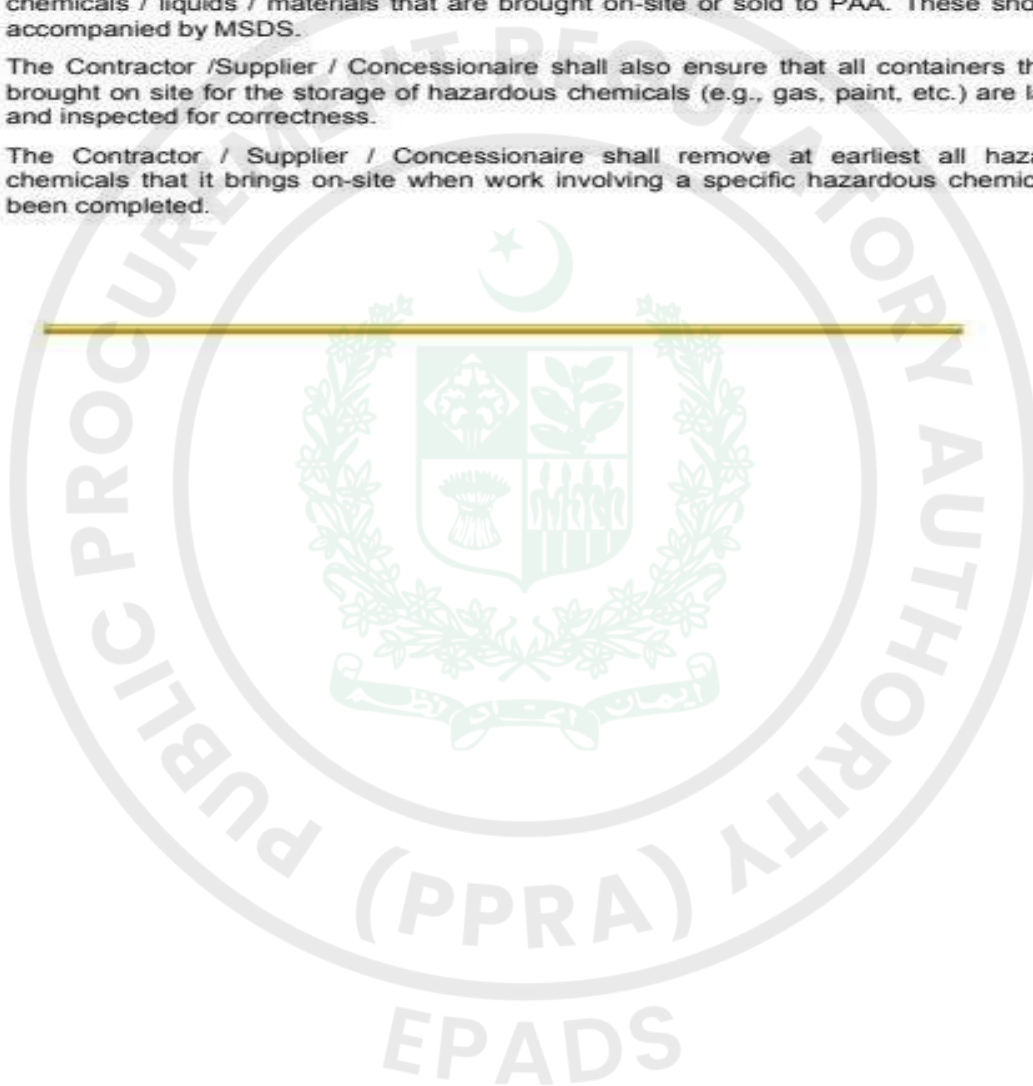
3.8 BIOLOGICAL / CHEMICAL / RADIOACTIVE HAZARDS

- 3.8.1 Some PAA operations may involve the use of biological, chemical, or radioactive material that can be hazardous to persons or property, if not handled or disposed safely. Contractors / Suppliers / Concessionaire will mark the areas where work with biological, chemical, or radioactive materials is being performed with proper signs.
- 3.8.2 The Contractor / Supplier / Concessionaire shall not disturb damage or otherwise handle any suspected asbestos containing material.
- 3.8.3 The Contractor / Supplier / Concessionaire shall not sweep, dust, vacuum or mop dust / debris which are the product of a suspected asbestos containing material. The Contractor / Supplier / Concessionaire shall also not pick up or throw away any suspected asbestos-containing waste or trash.
- 3.8.4 Sand blasting, grinding, drilling, brazing, scraping, polishing of floors and other dust emitting surfaces will be done by persons wearing appropriate PPEs.

3.9 HAZARDOUS MATERIALS AND HAZARD COMMUNICATION

- 3.9.1 Hazardous materials shall not be handled or used by the Contractor / Supplier / Concessionaire without providing training to the concerned employees.

- 3.9.2 No solvents, paints, or similar flammable, toxic, or irritating materials shall be used in PAA premises / areas under the jurisdiction of PAA unless specifically authorized by PAA.
- 3.9.3 Adequate ventilation shall be maintained when paints or solvents are used.
- 3.9.4 Flammable solvents and materials shall be used with extreme caution.
- 3.9.5 It shall be ensured that flammable paints and solvents are isolated and stored in approved locations, if inside the building.
- 3.9.6 The Contractor / Supplier / Concessionaire shall submit an inventory of all hazardous chemicals / liquids / materials that are brought on-site or sold to PAA. These should be accompanied by MSDS.
- 3.9.7 The Contractor / Supplier / Concessionaire shall also ensure that all containers that are brought on site for the storage of hazardous chemicals (e.g., gas, paint, etc.) are labeled and inspected for correctness.
- 3.9.8 The Contractor / Supplier / Concessionaire shall remove at earliest all hazardous chemicals that it brings on-site when work involving a specific hazardous chemical has been completed.



Chapter 4

SPECIFIC SAFETY REQUIREMENTS

4.1 CONFINED SPACE ENTRY

- 4.1.1 Contractor / Supplier / Concessionaire will obtain Confined Space Entry Certificate before entering / working in confined spaces. If during the course of work, the Contractor/Supplier / Concessionaire encounters a confined space that has not been previously identified by the PAA, it must immediately bring the space to the attention of the PAA's authorized / designated official(s), and delays entry until the space is examined by the PAA's authorized / designated official
- 4.1.2. When PAA and Contractor / Supplier / Concessionaire personnel are working in or near confined spaces, the Contractor / Supplier / Concessionaire shall coordinate all operations, with likely-to-be-affected PAA personnel before entry.
- 4.1.3 Prior coordination shall also be required on entering a confined space with or without a PAA employee

4.2 LOCK-OUT / TAG-OUT (WHERE APPLICABLE)

- 4.2.1 As part of PAA's Electrical Isolation / De-Isolation permit requirement, standard locks and tags are used to control the start-up of equipment that is being serviced or maintained by its employees. At no time shall the Contractor / Supplier / Concessionaire or its employees override any locks or tags that they encounter during the performance of their work.
- 4.2.2 The Contractors / Suppliers / Concessionaires are responsible for developing, implementing and maintaining their own Lock-out / Tag-out Program.
- 4.2.3 The Contractor / Supplier / Concessionaire shall submit a copy of its Lock-out / Tag-out Program to the PAA's authorized / designated official(s) before the start of any work.

4.3 GENERAL ELECTRICAL SAFETY

- 4.3.1 Temporary electrical connection(s), where required, shall be obtained from PAA as per the prescribed procedure only.
- 4.3.2 Only qualified electricians are permitted to work on electrical systems and equipment that use or control electrical / power.
- 4.3.3 Electrical tools or equipment shall not be operated in wet areas or areas where potentially flammable dusts, vapors, gases, or liquids are present, unless specifically approved.
- 4.3.4 Should a circuit breaker or other protective device "trip," it is to be ensured that a qualified electrician checks the circuit and equipment and corrects problem before resetting the breaker. Moreover, there should always be a provision for safety isolation of the circuit where needed
- 4.3.5 Barriers and post warning signs shall be erected to ensure that the non-authorized personnel stay clear of the work area.
- 4.3.6 Hazards (lack of protective guards or covers, damaged equipment, etc.) shall be reported to the PAA's authorized / designated official(s) immediately.
- 4.3.7 Electrical boxes, switch gear, cabinets, or electrical rooms shall not be left open when not directly attended.
- 4.3.8 It shall be ensured to insulate energized parts when have been removed or doors are closed. Use of cardboard, plywood or other flammable to cover energized circuits is prohibited.
- 4.3.9 Proper grounding / earthing and arc quenching, where required, shall be ensured.

4.3.10 The size of the cable / conductor should match with the actual on-site requirement.

4.4 **COMPRESSED GAS CYLINDERS**

The following measures must be taken for the protection of persons and property:

- 4.4.1 All the cylinders brought in by the Contractors / Suppliers / Concessionaires shall have valid test certificates performed by a certified testing agency.
- 4.4.2 Pressure and leak testing shall invariably be carried out and documented in all jobs associated with compressed gas or liquid handling.
- 4.4.3 Valve protection caps must be in place when compressed gas cylinders are transported, moved, or stored.
- 4.4.4 Cylinder valves must be closed and valve covers must be replaced when work is complete and when cylinders are empty or moved.
- 4.4.5 Compressed gas cylinders must be secured in an upright position in a welding cart or to a solid object (using chains, straps, or a rigid retaining bar).
- 4.4.6 Compressed gas cylinders must be secured on an approved carrier while being transported.
- 4.4.7 Cylinders shall be kept at a safe distance or shielded from welding or cutting operations. Cylinders shall not be placed where they can contact an electrical circuit.
- 4.4.8 It shall be ensured to keep oxygen and flammable gas regulators in proper working order and a wrench in position on the acetylene valve when in use.
- 4.4.9 If a leak develops in a cylinder and it cannot be immediately corrected, the cylinder shall be moved to a safe location outside the building / away from the location of work.
- 4.4.10 Cylinders must not be taken into or stored in confined spaces.
- 4.4.11 Empty & filled cylinders must be kept separately.
- 4.4.12 Hoses and regulators must not be stored in unventilated or closed containers or areas.

4.5 **WELDING, CUTTING AND BRAZING**

The Contractors / Suppliers / Concessionaires shall ensure the following:

- 4.5.1 Obtain PTW.
- 4.5.2 Inform PAA's authorized / designated official(s) prior to the start of any welding / cutting / brazing work.
- 4.5.3 Remove combustible materials from the area before beginning work.
- 4.5.4 Install anti flashback (safety / check) valves in both the oxygen / acetylene hoses at the regulator.
- 4.5.5 Shield adjacent areas with welding partitions.
- 4.5.6 Persons involved are adequately trained in using portable fire extinguishers.
- 4.5.7 Have a second person trained in basic firefighting as standby with an approved fire extinguisher for welding and cutting operations.

4.6 **CRANES AND RIGGING**

- 4.6.1 Each crane or hoist brought onto PAA property must have a valid inspection testing performed by a certified testing agency.
- 4.6.2 The operator is responsible for the proper placement of the crane in relationship to the load to be handled and the landing area so as to obtain the best rated lift capacity, and the installation and maintenance of crane swing radius protection.
- 4.6.3 All operators must possess a valid crane / hoist operating / driving license as applicable.

4.7 **FITNESS**

- 4.7.1 Suppliers / Contractors / Concessionaires shall ensure that all their personnel working in PAA premises are medically fit to perform their assigned tasks.
- 4.7.2 If requested by PAA, Contractors / Suppliers / Concessionaires shall provide the fitness / health certificates of their employees.

4.8 **DRIVING**

- 4.8.1 All Contractors' / Suppliers' / Concessionaires' vehicles while in PAA premises or performing PAA duties shall adhere to speed limits (applicable in that particular zone), and also comply with all other traffic and road safety regulations of PAA.
- 4.8.2 The drivers should be in possession of valid driving license.
- 4.8.3 All Contractor / Supplier / Concessionaire vehicles should have:
- 4.8.3.1 Standard seat belts. The seat belts should be neat and clean and in proper working condition.
 - 4.8.3.2 Standard fire extinguisher.
 - 4.8.3.3 Standard first aid box.

4.9 **INDEMNITY**

Suppliers / Contractors / Concessionaires shall keep harmless and indemnify Pakistan PAA against all losses, damages, injuries, death of any person, claims, actions, third party action arising out of acts and omissions by their employees/ personnel or non-compliance with the terms and conditions as stated herein and/or any applicable laws and regulation. Contractor shall take clearance with concerned offices before handing / taking over the area to be restored on the same condition(s) as was/were before start of work (as per contract agreement).

APPENDICES

پاکستان سول ایوی ایشن اتھارٹی

آئی ایم ایس پالیسی



ادارہ شہری ہوابازی پاکستان ملک میں تمام شہری ہوابازی سے متعلق سرگرمیوں کو مربوط کرنے اور ہوابازی کی صنعت کو بین الاقوامی معیار پر لانے کے لیے پر عزم ہے۔ مخلوط سفر، مسافروں کا تحفظ، اعلیٰ کارکردگی اور ماحولیاتی تحفظ ہمارے نصب العین اور کارکردگی کا حصہ ہے۔ ادارہ شہری ہوابازی ملک میں ایک ایسے مربوط نظام جو کہ بین الاقوامی ادارہ شہری ہوابازی کے قواعد و ضوابط، ہوابازی کی صنعت کے تحفظ اور حفاظت، معیاری کارکردگی، معلومات و ماحولیات کے تحفظ، توانائی کے بچاؤ، مسافروں کے حقوق اور ان کے اطمینان اور پیشہ ورانہ صحت اور تحفظ پر مشتمل ہو، قومی اور بین الاقوامی معیار کی مطلوبہ ضروریات کے تقاضے پورے کرتے ہوئے ارتقاء، اطلاع و تسلسل اور جدیدیت بختری کے عہد پر قائم ہے۔ ادارہ شہری ہوابازی پاکستان مندرجہ ذیل امور کو یقینی بناتا ہے۔

• کارکردگی کو تسلسل بھرنے کا، حفاظتی اقدامات کو معیاری بنانا، مصنوعات اور خدمات فراہم کرنا، ماحولیاتی آلودگی کو روکنا نیز اسے ملازمین اور شراکت داروں کی صحت اور حفاظت کا خیال رکھنا۔

• قابل تجدید / خیاں توانائی کے وسائل کے استعمال کے ساتھ ساتھ توانائی کے تحفظ پر عمل درآمد کرنا۔

• صارفین کے اطمینان پر پورا اترنے کے لیے اعلیٰ ترین خدمات کا معیار قائم کرنا۔

• غیر قانونی مداخلت سے مخلوط رہنے کے لیے قومی ہوابازی کے تحفظ کے کام کا احراز کرنا۔

• ایک ایسے موثر تحفظ نظام کا احراز کرنا جو کہ ہوابازی کو صنعت میں تحفظ سے حفاظتی خدمات فراہم کرنے کے لیے قومی و عالمی ذمہ داریوں کے تحت تحفظ کے لیے قیام پختی بنے۔

• ہوابازی کی صنعت میں اطلاعات کی ترسیل کو ہر طرح کے حادثے اور دیگر مداخلت سے جدیدیت بختر بنانا اور تمام آلات و دستاویزات کے انجانی درجے کی حفاظت کرنا۔

• اپنی سرگرمیوں و خدمات پر لا کو تمام قوانین کی پاسداری کرنا اور قوانین و احکامات کی تعمیل کرنا۔

• اپنے کام کے طریقہ کار اور معیار کی خلاف ورزی کے حوالے سے عدم برداشت کے اصول پر کاربند رہنا۔

• خطرات کی آگاہی و اطلاع دہی اور ان سے تحفظ کے درجہ کے انتظام کے لیے مناسب وسائل فراہم کرنا۔

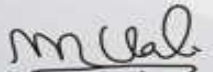
• مربوط نظام کے متناصروں اور اہلکار کے تعین اور ان پر نگرانی کا طریقہ کار واضح کرنا۔

• اپنے نظام کی بختری کے لیے مسلسل موثر اقدامات کرنا نیز اپنے ملازمین کو اعلیٰ معیار، ماحولیات، حفاظت اور تحفظ کے بارے میں تربیت فراہم کرنا تاکہ وہ اپنی مہارت سے اپنی پیشہ ورانہ ذمہ داریوں سے عہدہ بردار ہو سکیں۔

• تمام سرگرمیاں اور خدمات کی فراہمی میں معیار اور تحفظ پر مبنی ایک ایسے تمدن کو فروغ دینا جو کہ مخلوط طریقہ کار میں غیر تاحی حفاظتی رپورٹنگ اور ترسیل کی حوصلہ افزائی کرے بلکہ یہ بھی تسلیم کرے کہ تحفظ ہی مقدم ہے۔

• خراش کی ادائیگی کے دوران ہونے والے ناگہانی حادثات اور بیماریوں سے بچاؤ کے لیے معتمد کو شش کرنا اور ایک ایسے تمدن کو فروغ دینا جس میں ملازمین مخلوط اور صحت مند ماحول میں کام کریں۔

• پاکستان شہری ہوابازی کے تمام تنظیمین و ملازم ادارے میں اعلیٰ معیار، تحفظ و حفاظت اور ماحولیاتی تحفظ کے لیے اعلیٰ درجہ کی معیاری اور تحفظ پر مبنی خدمات سرانجام دینے کے ذمہ دار اور عہدہ دار۔



(محمد عرفان الہی)

اسکواڈن لیڈر (ریٹائرڈ)

ٹیکرینری ایوی ایشن / چیئرمین سی اے اے یورڈ



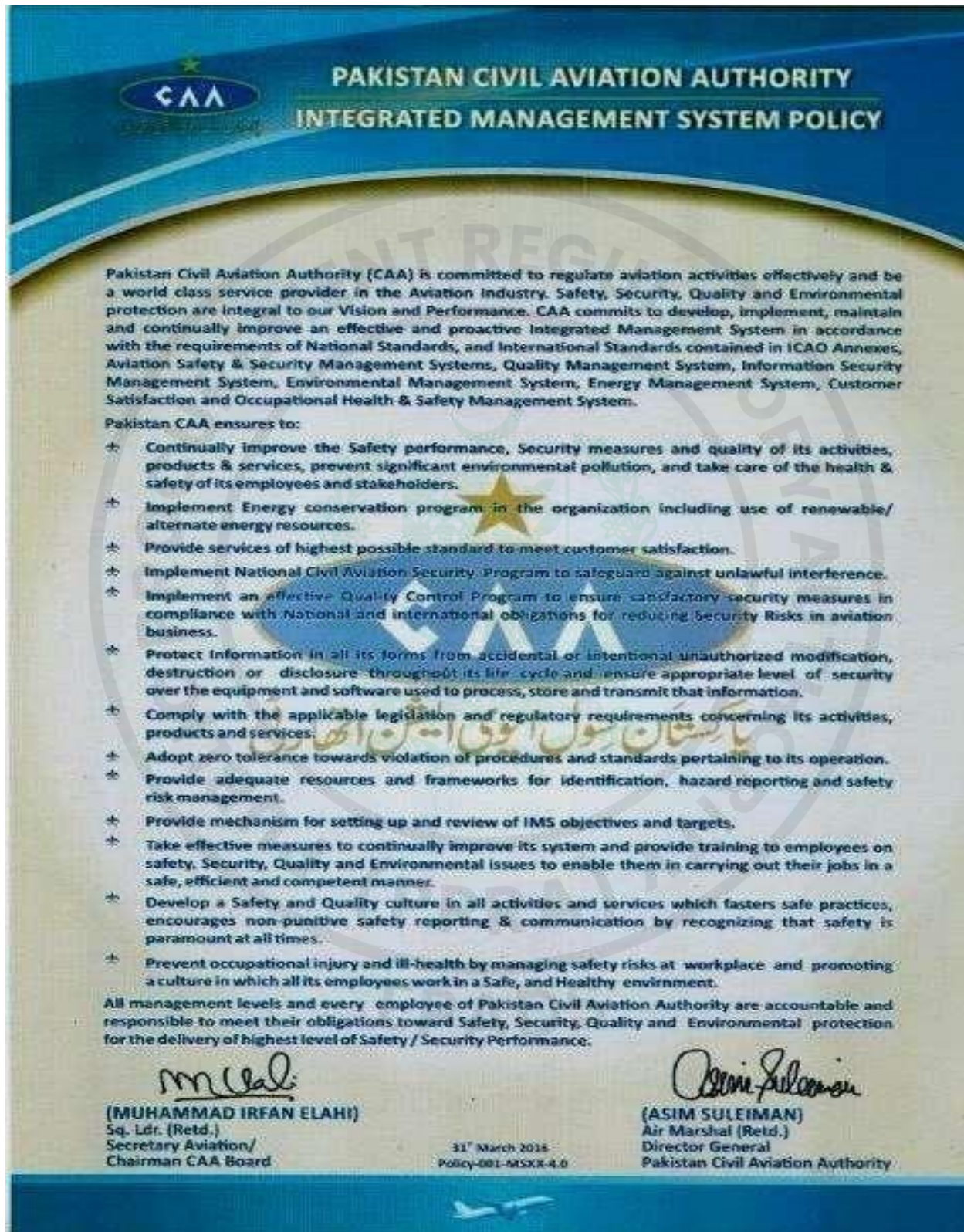
(عاصم سلیمان)

ایئر مارشل (ریٹائرڈ)

ڈائریکٹر جنرل پاکستان سول ایوی ایشن اتھارٹی

31st March 2016
Policy-001-MSXX-4.0





VII

MEMORANDUM

- a) General Description of Works : **CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI**
- b) Tender shall enclosed with tender Bank Draft / Pay Order from Schedule Bank. **Rs. 25,000,000/-**
- c) Security deposit (including Earnest money) **5% (Five per cent)**
- d) Deduction of Income Tax **As per Income tax ordinance 2014 updated time to time.**
- e) Time allowed for the work **02 Years / 24 Months (from date of written Order to commence)**

S.No.	Item of work	Quantity	Unit	Rate tendered		Amount
				In figure	In words	

As per schedule attached.

Pakistan Airports Authority

General Abstract of Cost

Bill of Quantities

CONSTRUCTION OF ASF INFRASTRUCTURE AT KARACHI GARRISON AND NAAS, KARACHI.

S.No.	Description	Amount
01	32 x JS Apartment (02 Blocks)	
02	Barrack for 128 Personnel	
03	Female trainee Hostel (Renovation Work)	
04	Academic Block (Balance Work)	
	Total Amount	



For P.A.A.

For Contractor

Pakistan Airports Authority
ES DIVISION CIVIL-I, JIAP

Bill of Quantities

NAME OF WORK: CONSTRUCTION OF 32 x JS APARTMENT AT JIAP KARACHI

S.No.	Description	Amount
S.H1-A	Building Work	
S.H: 1-B	Water Supply & Sanitations	
S.H: 1-C	Internal Electrification	
	Total Amount	


For P.A.A.

For Contractor

PAKISTAN AIRPORTS AUTHORITY

CONSTRUCTION OF 32 x JS APARTMENT AT JIAP KARACHI

Bill of Quantities

S. No.	Description	Quantity	Rate		Unit	Amount
			in Figure	in Words		
SH:- 1-A Building Work						
1	Excavation for raft foundations, underground tanks and septic tanks (rectangular or square) in all kinds of soil and back filling the excavated material all-round the trenches including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead up to one chain and lift upto 5 feet	34844 Cft			100 Cft	
2	Cartage of sand, bajri, lime, surkhi, murum, manure, earth & building rubbish including loading, unloading and stacking etc at site dispose-off (by mechanical means) beyond 2 miles (3.2 Km) lead	34844 Cft			100 Cft	
3	Providing & carrying out termite proofing in foundation. Under floor and wood work surface with a solution using of confront TC with water and spraying the solution of the area to be treated as completed as per direction of Engineer incharge	8711 Sft			P.Sft.	
4	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 1 inch and down gauge in foundation including leveling, compacting and curing etc. Complete.	2290 Cft			100 Cft	
5	P/L RCC using crushed graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in raft or strip foundation with columns and pillars, of any shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth	9408 Cft			100 Cft	
6	--do-- but in columns of square shape of regular section in foundation basement and plinth	145 Cft			100 Cft	



For P.A.A.

For Contractor

7	--do-- but in plinth beams of required shape and design in foundation basement and plinth	720 Cft			100 Cft	
8	--do-- but in columns of square shape of regular section in the ground floor	724 Cft			100 Cft	
9	--do-- but in columns of square shape of regular section in the 1st floor	724 Cft			100 Cft	
10	--do-- but in columns of square shape of regular section in the 2nd floor	724 Cft			100 Cft	
11	--do-- but in columns of square shape of regular section in the 3rd floor	724 Cft			100 Cft	
12	--do-- but in columns of square shape of regular section in the 4th floor	81 Cft			100 Cft	
13	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in basement and ground floor	2150 Cft			100 Cft	
14	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 1st floor	2150 Cft			100 Cft	
15	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 2nd floor	2150 Cft			100 Cft	
16	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 3rd floor	2150 Cft			100 Cft	
17	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 4th floor	324 Cft			100 Cft	
18	--do-- but in ordinary slab 5 inches to 6 inches thick in basement plinth and ground floor	2638 Cft			100 Cft	
19	--do-- but in ordinary slab 5 inches to 6 inches thick in the 1st floor	2638 Cft			100 Cft	
20	--do-- but in ordinary slab 5 inches to 6 inches thick in the 2nd floor	2638 Cft			100 Cft	

For P.A.A.

For Contractor

21	--do-- but in ordinary slab 5 inches to 6 inches thick in the 3rd floor	2638 Cft			100 Cft	
22	--do-- but in ordinary slab 5 inches to 6 inches thick in the 4th floor	323 Cft			100 Cft	
23	--do-- but in straight stair and landings in basement plinth and ground floor	150 Cft			100 Cft	
24	--do-- but in straight stair and landings in the 1st floor	150 Cft			100 Cft	
25	--do-- but in straight stair and landings in the 2nd floor	150 Cft			100 Cft	
26	--do-- but in straight stair and landings in the 3rd floor	150 Cft			100 Cft	
27	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in basement plinth and ground floor	2638 Cft			100 Cft	
28	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in the 1st floor	77 Cft			100 Cft	
29	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in the 2nd floor	77 Cft			100 Cft	
30	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in the 3rd floor	77 Cft			100 Cft	
31	--do-- but in ordinary cantilevered slab, sunshade or chajja 3 inches to less than 5 inches thick in the 4th floor	88 Cft			100 Cft	
32	Providing and laying cold worked twisted ribbed steel reinforcement bars with minimum yield stress of 60,000 psi with and including the cost of straightening, cutting, bending, binding, wastage, complete in all kinds of RCC work	36379 Kg			P-Kg	
33	--do-- but Reinforcement bars Gde-60 in 1st floor	13022 Kg			P-Kg	
34	--do-- but Reinforcement bars Gde-60 in 2nd floor	13022 Kg			P-Kg	

EPADS

For P.A.A.

For Contractor

35	--do-- but Reinforcement bars Gde-60 in 3rd floor	13022 Kg			P-Kg	
36	--do-- but Reinforcement bars Gde-60 in 4th floor	1845 Kg			P-Kg	
37	P/L 1:2:4 C.C. machine made solid block masonry more than 6 inches thick using crush graded boulders 3/4 inch and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete; foundation and basement masonry upto 5 feet depth and plinth upto 4 feet height from ground level	507 Cft			100 Cft	
38	--do-- but CC Block masonry in ground floor structure	4058 Cft			100 Cft	
39	--do-- but CC Block masonry in the 1st floor	4058 Cft			100 Cft	
40	--do-- but CC Block masonry in the 2nd floor	4058 Cft			100 Cft	
41	--do-- but CC Block masonry in the 3rd floor	4058 Cft			100 Cft	
42	--do-- but CC Block masonry in the 4th floor	1032 Cft			100 Cft	
43	Providing and laying gola 3" x 3" size wrth lime surkhi concrete 1:2:4 (1 lime, 2 surkhi and 4 brick ballast) with 1" (25 mm) and down gauge brick ballast at the junction of roof slab and walls and finished with lime surkhi plaster 1:2 including curing etc., complete	464 Rft			100 Rft	
44	Providing & laying of Aluminium foil 4mm thick Ezogrip of approved quality i/c the cost of clearing roof , cartage, wastage etc completed as per direction of Engineer incharge in any height in any floor	6279 Sft			P-Sft	
45	1/4" thick cement plaster 1:3 on soffits of ceiling, cantilever slabs, sides and soffits of beams etc., in basement, mezzanine and ground floor including making edges, corners and curing etc., complete	6144 Sft			100 Sft.	
46	---- do --- but ceiling plaster on 1st Floor	6144 Sft			100 Sft.	
47	---- do --- but ceiling plaster on 2nd Floor	6144 Sft			100 Sft.	

For P.A.A.

For Contractor

48	---- do --- but ceiling plaster on 3rd Floor	6144 Sft			100 Sft.	
49	---- do --- but ceiling plaster on 4th Floor	314 Sft			100 Sft.	
50	1/2" thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, and curing etc., complete.	26959 Sft			100 Sft.	
51	---- do --- but Wall Plaster on 1st Floor	26959 Sft			100 Sft.	
52	---- do --- but Wall Plaster on 2nd Floor	26959 Sft			100 Sft.	
53	---- do --- but Wall Plaster on 3rd Floor	26959 Sft			100 Sft.	
54	---- do --- but Wall Plaster on 4th Floor	5840 Sft			100 Sft.	
55	Providing and fixing M.S. molded steel door frames of 5.73" x 2-1/2" (146 mm x 63 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S. 1245 having a double rebate size 1-1/2" x 1/2" (38 mm x 12 mm) provision of 3 Nos. M.S. plate, section 1-1/2" x 1/4" (38 mm x 6 mm) (2 Nos. 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:1:2 etc. in any floor at any height complete as directed by the Engineer-in-Charge	3808 Rft			P.Rft	
56	Supplying stacking and filling sand of approved quality from outside sources in foundation, trenches, plinth or under floor, etc. including dressing, watering and consolidation by ramming in layers not exceeding 9 inches in depth to full compaction and lift upto 5 feet.	6222 Cft			100 Cft.	
57	Providing and laying 1:4:8 cement concrete bed under floors using graded stone ballast 2 inches and down gauge with leveling and ramming, watering and curing etc. complete.	3473 Cft			100 Cft	

For P.A.A.

For Contractor

58	Providing and laying in situ 1:2:4 (1 cement 2 sand and 4 coarse aggregate) cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet depth (1.52 m) and plinth up to 4 feet (1.2 m) height from ground level	366 Cft			100 Cft.	
59	Providing and laying light colour, glazed/ non-skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	45806 Sft			100 Sft	
60	P/F 12mm thick tempered glass, Swing door Pak made as per approved manufacturers (fixing through their approved fabricators) D-Lock silicon, moving machines all accessories, cutting holes etc and making good damages etc complete as required in any floor as per direction of Engineer incharge.	168 Sft			P-Sft	
61	P/F 12mm tempered glass fixed partition as per approved manufacturers (fixing through their approved fabricators) i/c 3M safety film 175 micron, aluminum section D-48 (100mm X 38mm and 233) thick i/c the aluminum fittings and S.S pipe 1.5" X 3" (18 Gauge) fixed on top with all accessories, cutting holes etc and making good damages etc complete as required in any floor as per direction of Engineer incharge	168 Sft			P-Sft	
62	Providing and fixing fully glazed Bronze anodized or powder coated aluminum Sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm x 30mm and 2mm thick including the cost of aluminum netting ,fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge, but excluding the cost of glass pans	2112 Sft			P-Sft	
63	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminum doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height	2112 Sft			P-Sft	
64	Providing and fixing tinted or frosted glass paper with and including the cost of washing the glass with shampoo and finishing complete in all respect as directed in any floor	4896 Sft			P-Sft	

For P.A.A.

For Contractor

65	Providing and fixing Window roll up blinds sunscreen, dark out, or translucent fabric any colour/shade best quality (imported) with manual roll up arrangements complete in all respect with all other required accessories and hardware from the approved suppliers and manufacturers as per direction of Engineer incharge	4224 Sft			P-Sft	
66	Providing and fixing 1-1/2 inches thick solid core deodar wood flushed veneered door shutters, with and including the cost of commercial plywood facing 3 mm. thick (3 ply) on both faces, fixed over best quality deodar wood frame 2 inches wide all-round 6 inches wide lock rail and 2nd class deodar wood solid core, i/c., 1/4 inch thick best quality deodar wood lipping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fittings but excluding the cost of handles and locking arrangement.	4704 Sft			P-Sft	
67	Providing and fixing iron grills with required section of flat iron as per approved design including welding all sides of the section at the junction, and fixing with sunk iron screws, painting two coats of red oxide paint etc. complete as required in any floor in masonry or concrete work.	9378 Kg			P-Kg	
68	Providing & Fixing 2" dia stainless steel pipe (18 gauge) railing along with 4 Nos 3/4" dia parallel pipe having S/S pipe vertical post 2" dia at 3 ft C/C average spacing and 4' dia vertical post at start turning and end point including cost of labour, welding charges fitting & fixing .completed as per direction of Engineer incharge	708 Rft			P.Rft	
69	P/L 3/4 inch Granite Stone Pakistani origin Tiles more than 7 Sq. ft upto 16 Sq.ft inch size fine dressed on the surface, without winding in any floor over 1 inch cement mortar 1:2 setting the marble tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar	1,696 Sft			100 Sft	
70	Providing and fixing kitchen wall cabinet making of shutter board box & 3/4 inch thick high gloss laminated lasani shutter, PVC beading PVC sheet backing of approved design etc, fixed with rawal plugs screws i/c cost of glue,nail, hinges, handles etc as per drawing, completed in all respect	520 Sft			P.Sft	
71	Providing and fixing kitchen wall cabinet making of shutter board box & 3/4 inch thick high gloss laminated lasani shutter, PVC beading PVC beading, deodar wooden fram 2.5 X 1.25 inch size making tray drawer of approved design etc, fixed with rawal plugs screws including cost of glue, nail, hinges hadles etc as per drawings, complete in all respect	624 Sft			P.Sft	

For P.A.A.

For Contractor

72	Providing and fixing approved quality stainless steel sink 33" x 18" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls ½" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	32 Nos			P-Each	
73	Providing & Fixing ward robe 24" deep consisting 19mm thick laminated sheet on bottom, top -sides partition, shelves & Shutters etc and 4mm thick pressed on back side, 2-1/2" X 1-1/4" best quality deodar wood frame and all open edge filled 3/4" molding PVC gola complete i/c the cost of glue iron nails screws, heavy type piano hinges 1/2" handle, catchers locks etc, complete in all respect as per direction of Engineer incharge	2,464 Sft			P-Sft	
74	Providing and fixing with C.P. brass screws main door handle type yale lock (Italy make) of approved design, cutting wood etc., to required size, with two operating keys, as per direction of the engineer-in-Charge	226 Nos			P-Each	
75	Providing and fixing 4" (100 mm) dia polyvinyl chloride rain water (PVC) down pipe with mild steel clamps, bolts and nuts fixed in cement concrete 1:2:4 etc. complete	400 Rft			P-Rft	
76	Providing and fixing 4" (100 mm) dia polyvinyl chloride (PVC) bend of any degree for rain water down pipe with clamps, bolts and nuts in cement concrete 1:2:4 etc. complete	16 Nos			P-Each	
77	Painting with (ICI) Dulux plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface at any height in any floor.	117451 Sft			100 Sft.	
78	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor	4954 Sft			100 Sft.	
79	-- do -- but height above 15 ft and upto 20ft	1955 Sft			100 Sft.	
80	-- do -- but height above 20 ft and upto 25 ft	1955 Sft			100 Sft.	
81	-- do -- but height above 25 ft and upto 30 ft	1955 Sft			100 Sft.	

For P.A.A.

For Contractor

82	-- do -- but height above 30 ft and upto 35 ft	1955 Sft			100 Sft.	
83	-- do -- but height above 35 ft and upto 40 ft	1955 Sft			100 Sft.	
84	-- do -- but height above 40 ft and upto 45 ft	1955 Sft			100 Sft.	
85	Painting wood work with synthetic enamel paint of approved make paint and shade two coats over and including the cost of one priming coat complete at any height in any floor.	10584Sft			100Sft	
					Total	

	SH:- 1-B Water Supply & Sanitation Work					
1	Making connection with the existing G.I. pipe upto 2 inches dia including cutting the pipe and providing and fixing necessary fittings	1 Nos			Each	
2	P/F 1-1/2" Ø uPVC pipe "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm ²)	1,840 Rft			P-Rft	
3	P/F 1" Ø uPVC Pipe "E" class with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm ²)	880 Rft			P-Rft	
4	--do-- but 3/4" Ø uPVC E Class pipe	640 Rft			P-Rft	
5	P/F of 1-1/2 inch dia ball valve (with PVC Ball) made to B.S.S. 1212.	3 Nos			Each	
6	--do-- but 1" Ø Ball Valve	16 Nos			Each	
7	Providing and fixing Pakistani best quality European style white glazed earthenware W.,C pan complete with and including the cost of plastic seat and buffers, 13.6 litres flushing cistern with internal fittings complete, P.V.C flushing pipe with fittings and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	32 Nos			Each	

For P.A.A.

For Contractor

8	Providing and fixing squatting type W.C.Pan in white vitreous china with integral treads (Pakistani) Orissa pattern and uPVC. trap 100mm dia. Complete with and including the cost of 13.6 litres best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4	32 Nos			Each	
9	P/F of 22 inches x 16 inches lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of glazed earthenware half pedestal, Brass oxidized bolts kit built into walls 1/2 inches dia. Chrome plated mixer, 1-1/4 inches rubber plug and chrome plated brass chain 1-1/4 inches dia brass waste of approved pattern 1-1/4 inches dia chromium plated battal trap with unions and making requisite, number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	64 No			Each	
10	Providing & fixing chromium plated Muslim bib-cock with Muslim Shower of approved quality.	64 Nos			Each	
11	Providing and fixing 1/2 inches dia. (15 mm) CP Bib cocks.	32 Nos			Each	
12	P/F of 1/2 inch dia CP stop cocks/ Tee Stop Cock (Master / Faisal etc.) as directed	96 Nos			Each	
13	Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws	64 Nos			Each	
14	P/F bath room accessories of set of 6 pieces consist of one shelf, one towel rod with bracket, one towel ring, one soap dish, one tooth Brush holder with glass, one tissue paper holder one double hook etc complete of approved quality as per direction of Engineer in-charge.	64 Nos			Each	
15	Providing and fixing uPVC Multi floor trape of sizes with gratings including cutting and making the requisite number of holes in walls plinth and floors and making good in 1:2:4, C.C.	96 Nos			Each	
16	P/F 4" dia (u.P.V.C) "E" class pipe with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm2).	1,152 Rft			P-Rft	

For P.A.A.

For Contractor

17	Providing and fixing 6" x 6" (150 mm x 150 mm) with 4 inches (100 mm) outlet cement concrete C.I. gully trap wt: 42 lbs. (19 kg.) complete with 4 inches thick (100 mm) 1:2:4 cement concrete for bed and kerb, 1/2 inch (13 mm) thick cement plaster (1:3) to the kerb, C.I. grating 6 inches x 6 inches (150 mm x 150 mm) and C.I. cover and frame 12 inches x 12 inches (305 mm x 305 mm) (inside) etc., complete.	8 Nos			Each	
18	Providing manhole type 'A' size 2 feet x 1-1/2 feet) (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches dia pipes up to 3 feet-11 inches depth with cast iron cover and frame 16 inches dia, inside (weight=1 Cwt.1 Qtr.) or 63.5 kg. fixed in 4 inches thick RCC 1:2:4 slab, 8 inches thick c.c. 1:3:6 block masonry walls set in 1:3 c.m; 6 inches thick 1:3:6 c.c. in foundation 1:2:4 c.c. in benching, 1/2 inches thick cement plaster in 1:3 C.M. to all inside wall surface, channels and benching etc. and to top including making requisite number of main and branch channels but excluding the cost of excavation back filling and disposal of excavated stuff, manhole cover and frame.	8 Nos			Each	
19	Add for extra depth beyond 2 feet and up to 3 feet-11 inches (610 mm and up to 1194 mm) for 'A' type manholes (for depth lesser than 2 feet or 610 mm deduct at the same rate)..	96 Inch			P-Inch	
20	Providing 12" Ø RCC pipes and collars of class 'A' and fixing in trench including cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) and testing with water to a head of 4 feet (1.22 m) above the top of the highest pipe including cartage within 10 miles	550 Rft			P-Rft	
21	Making connection with the existing manhole including the cost of cutting holes in walls, making them good in cement concrete 1:2:4 and .making the required channel etc., complete	1 Nos			Each	
22	Providing & laying R.C.C 1:2:4 slab cover 3" thick average (precast complete with M.S flat iron, M.S bars embedded in concrete) of any shape including the cost of reinforcement and welding etc. as per direction of Engineer Incharge.	8 Cft			P-Cft	
					Total	
SH:- 1-C Electric Work						
1	Providing & fixing basic batten, surface type, fitting complete with LED Tube Light 1 x 16 watts, T8, 4 feet Philips make as Philips Cat. (TMS-015/136)	280 Nos			Each	

For P.A.A.

For Contractor

2	Providing and installation 140cm (56") ceiling fan with blades, canopy, stranded length of down rod including connection with 14.0076 flexible wire complete as reqd (Without regulator)	96 Nos			Each	
3	Providing & installing 45 Cm (18") sweep wall bracket fan, plastic body, complete with blades, fitted on wall or column with GI clip including connection with 14.0076" flexible wire complete as required.	64 Nos			Each	
4	Providing & installing 25 Cm (10") sweep, Double Action, Plastic body Exhaust fan complete with blades, motor and pulling cord switch etc fixed in existing hole including connection with 14.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	96 Nos			Each.	
5	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(E15 Clipsal make)	424 Nos			Each.	
6	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	128 Nos			Each.	
7	Wiring for light, fan or call bell point with 1.5mm ² PVC insulated wire in (20mm) 3/4" dia PVC conduit recessed in the wall or column including 1mm ² single core, PVC insulated wire as ECC as required	760 Pts			P.Pt	
8	Wiring for sub-main with 2 core, 2.5mm ² PVC insulated cable in 20mm (3/4") PVC conduit recessed in the roof, wall & column including 1.5 mm ² single core, PVC insulated wire as ECC as required.	18600 Rft			P.Rft	
9	Wiring for sub-main with 2 core, 6mm ² PVC insulated cable in 25mm (1") PVC conduit recessed in the roof, wall & column including 2.5 mm ² single core, PVC insulated wire as ECC as required.	5320 Rft			P.Rft	
10	Providing & fixing 10 Amps 3 Gang holes sheet (switch - 02 Nos-Socket 01) fixed on wooden board, recessed in wall or column including connection as required.	32 Nos			Each	
11	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 05 Nos, Socket- 01 Nos) fixed on wooden board, recessed in wall or column including connection as required.	40 Nos			Each	
12	Providing & fixing 10 Amps 4 Gang holes sheet (switch - 03 Nos, Socket- 01 Nos) fixed on wooden board, recessed in wall or column including connection as required.	96 Nos			Each	
13	Providing & fixing 10 Amps 8 Gang holes sheet (switch - 06 Nos, Socket- 01 Nos-01 Fan Dimmer) fixed on wooden board, recessed in wall or column including connection as required.	96 Nos			Each	

For P.A.A.

For Contractor

14	Supply and Installation of 14 / 14.5 watt LED Bulb with holder complete in all respect as required.	192 Nos			Each	
15	Providing & fixing 6 Amps plastic ceiling rose on PVC round block / round cover fitted on surface including connection as required.	536 Nos			Each	
16	Providing, installation, Testing & Commissioning of Flood lights, 150 Watts, (Ip66) including driver, having cool white color (6500K), 90-110 lm/watt efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by Engineer incharge	16 Nos			Each	
17	Providing and fixing Earthing set with 2'x2'x1/8" copper plate buried in the existing pit (with salt and charcoal, or Earthing chemical Powder) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required.	3 Jobs			P.Job	
18	Wiring for sub-main with 2 core, 10mm ² PVC insulated copper cable wire in 25mm (1") PVC conduit recessed in the roof, wall & column including 6 mm ² single core, PVC insulated copper wire as ECC as required.	2000 Rft			P.Rft	
19	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 42"x24"x8"(width 42", height 24", depth 8"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 125 Amps, TP, MCCB, Icu 25kA, Ics 13kA 16 Nos – 63 Amps, DP, MCB, Icu 10kA 04 Nos – 10 Amps, DP, MCB, Icu 10kA 01 Nos – 20 A TP MCCB 2.5 kA 01 Set – 250 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	2 Job			P.Job	
20	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 18" x 14" x 6"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 1 Nos – 63 Amps, DP, MCB, Icu 10kA 16 Nos – 16A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)	32 Job			P.Job	
21	Providing & fixing compact/cubical 16 SWG MS, concealed type DB duly painted size 12"x18"x6"(width 12", height 18", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 20 Amps, TP, MCCB, Icu 5kA 02 Nos. – 10 Amps, DP, MCCB 01 No. – Photoelectric EE switch, 3 Amp	2 Job			P.Job	

For P.A.A.

For Contractor

	01 No. – Magnetic Contactor 48 Amp, 3P+2a2b					
22	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 42"x24"x8"(width 42", height 24", depth 8"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 06 Nos – Digital single phase energy meter 10-40 Amps 01 Set – Phase indication lamps (R.Y.B)	2 Job			P.Job	
23	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 6"x6"x6"(width 6", height 6", depth 6"), proper locking arrangement comprising on followings i/c making connection & testing on load etc, complete as required. 01 Nos- 16 A SP MCB 01 Set – Phase indication lamps (R.Y.B)	8 Job			P.Job	
					Total	

For P.A.A.

For Contractor

Pakistan Airports Authority
ES DIVISION CIVIL-I, JIAP

Bill of Quantities

NAME OF WORK: CONSTRUCTION OF BARRACK FOR 128 PERSONNEL AT JIAP KARACHI

S.No.	Description	Amount
S.H: 2-A	Building Work	
S.H: 2-B	Water Supply & Sanitations	
S.H: 2-C	Internal Electrification	
	Total Amount	


For P.A.A.

For Contractor

PAKISTAN AIRPORTS AUTHORITY

CONSTRUCTION OF BARRACK FOR 128 PERSONNEL AT JIAP KARACHI

Bill of Quantities

S. No.	Description	Quantity	Rate		Unit	Amount
			in Figure	in Words		
	SH:- 2-A Building Work					
1	Excavation for raft foundations, underground tanks and septic tanks (rectangular or square) in all kinds of soil and back filling the excavated material all-round the trenches including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead up to one chain and lift upto 5 feet	28291 Cft			100 Cft	
2	Cartage of sand, bajri, lime, surkhi, murum, manure, earth & building rubbish including loading, unloading and stacking etc at site dispose off (by mechanical means) beyond 2 miles (3.2 Km) lead.	6156 Cft			100 Cft	
3	Providing & carrying out termite proofing in foundation. Under floors and wood work surface with a solution using of confront TC with water and spraying the solution of the area to be treated as completed as per direction of Engineer incharge	7073 Sft			P.Sft.	
4	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 1 inch and down gauge in foundation including levelling, compacting and curing etc. complete.	3537 Cft			100 Cft	
5	Providing and Laying Reinforced Cement Concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in raft or strip foundation with columns and pillars, of any shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth	12378 Cft			100 Cft	
6	--do-- but in columns of square shape of regular section in foundation basement and plinth	270 Cft			100 Cft	

EPADS



For P.A.A.

For Contractor

7	--do-- but in plinth beams of required shape and design in foundation basement and plinth	1208 Cft			100 Cft	
8	--do-- but in columns of square shape of regular section in the ground floor	900 Cft			100 Cft	
9	--do-- but in columns of square shape of regular section in the 1st floor	900 Cft			100 Cft	
10	--do-- but in columns of square shape of regular section in the 2nd floor	120 Cft			100 Cft	
11	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in basement and ground floor	1339 Cft			100 Cft	
12	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 1st floor	1339 Cft			100 Cft	
13	--do-- but in Straight beams, Lintols, cantilever beams of required shape and section in the 2nd floor	60 Cft			100 Cft	
14	--do-- but in ordinary slab 5 inches to 6 inches thick in basement plinth and ground floor	3375 Cft			100 Cft	
15	--do-- but in ordinary slab 5 inches to 6 inches thick in the 1st floor	3375 Cft			100 Cft	
16	--do-- but in ordinary slab 5 inches to 6 inches thick in the 2nd floor	298 Cft			100 Cft	
17	--do-- but in straight stair and landings in basement plinth and ground floor	128 Cft			100 Cft	
18	--do-- but in straight stair and landings in the 1st floor	128 Cft			100 Cft	
19	Providing and laying cold worked twisted ribbed steel reinforcement bars with minimum yield stress of 60,000 psi with and including the cost of straightening, cutting, bending, binding, wastage, complete in all kinds of RCC work	62244 Kg			Kg	
20	--do-- but Reinforcement bars Gde-60 in 1st floor	18237 Kg			Kg	

For P.A.A.

For Contractor

21	--do-- but Reinforcement bars Gde-60 in 2nd floor	1519 Kg			Kg	
22	P/L 1:2:4 C.C. machine made solid block masonry more than 6 inches thick using crush graded boulders 3/4 inch and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete; in ground floor super structure	5668 Cft			100 Cft	
23	--do-- but CC Block masonry in the 1st floor	5668 Cft			100 Cft	
24	--do-- but CC Block masonry in the 2nd floor	695 Cft			100 Cft	
25	Providing and laying gola 3" x 3" size wrth lime surkhi concrete 1:2:4 (1 lime, 2 surkhi and 4 brick ballast) with 1" (25 mm) and down gauge brick ballast at the junction of roof slab and walls and finished with lime surkhi plaster 1:2 including curing etc., complete	380 Rft			100 Rft	
26	Providing & laying of Aluminum foil 4mm thick Ezogrip of approved quality i/c the cost of clearing roof, cartage, wastage etc completed as per direction of Engineer incharge in any height in any floor.	6516 Sft			P-Sft	
27	1/4" thick cement plaster 1:3 on soffits of ceiling, cantilever slabs, sides and soffits of beams etc., in basement, mezzanine and ground floor including making edges, corners and curing etc., complete	6212 Sft			100 Sft.	
28	---- do --- but ceiling plaster on 1st Floor	6212 Sft			100 Sft.	
29	---- do --- but ceiling plaster on 2nd Floor	170 Sft			100 Sft.	
30	1/2" thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, and curing etc., complete.	15252 Sft			100 Sft.	
31	---- do --- but Wall Plaster on 1st Floor	15252 Sft			100 Sft.	
32	---- do --- but Wall Plaster on 2nd Floor	2920 Sft			100 Sft.	
33	Providing and fixing M.S. molded steel door frames of 5.73" x 2-1/2" (146 mm x 63 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S. 1245 having a double rebate size 1-1/2" x 1/2" (38 mm x 12 mm) provision of 3 Nos. M.S. plate, section 1-1/2" x 1/4" (38 mm	320 Rft			P.Rft	

For P.A.A.

For Contractor

	x 6 mm) (2 Nos. 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:1:2 etc. in any floor at any height complete as directed by the Engineer-in-Charge					
34	Supplying stacking and filling sand of approved quality from outside sources in foundation, trenches, plinth or under floor, etc. including dressing, watering and consolidation by ramming in layers not exceeding 9 inches in depth to full compaction and lift upto 5 feet.	6062 Cft			100 Cft.	
35	Providing and laying 1:4:8 cement concrete bed under floors using graded stone ballast 2 inches and down gauge with levelling and ramming, watering and curing etc. complete.	3031 Cft			100 Cft	
36	Providing and laying in situ 1:2:4 (1 cement 2 sand and 4 coarse aggregate) cement concrete using crushed graded boulders 3/4 inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet depth (1.52 m) and plinth up to 4 feet (1.2 m) height from ground level .	294 Cft			100 Cft.	
37	Providing and laying light colour, glazed/ non skid vitrified porcelean tiles (Polished) exceeding 1600 Sqcm but not exceeding 3600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	9040 Sft			100 Sft	
38	Providing and laying floor of 3/4 inch thick white marble tiles, more than 3 Sq. ft upto 5 Sq.ft size fine dressed on the surface, without winding in ground floor over 1 inch cement mortar 1:2 setting the marble tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.	11898 Sft			100 Sft	
39	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm x 30mm and 2mm thick including the cost of aluminum netting ,fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge, but excluding the cost of glass pans.	324 Sft			Sft	

For P.A.A.

For Contractor

40	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminum doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height	324 Sft			Sft	
41	Providing and fixing 1-1/2 inches thick solid core deodar wood flushed veneered door shutters, with and including the cost of commercial plywood facing 3 mm. thick (3 ply) on both faces, fixed over best quality deodar wood frame 2 inches wide all-round 6 inches wide lock rail and 2nd class deodar wood solid core, i/c., 1/4 inch thick best quality deodar wood lipping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fittings but excluding the cost of handles and locking arrangement.	413 Sft			Sft	
42	P/F 1-1/2 Inch (38 mm) thick best quality PVC /UPVC door shutter paneled (approved design), approved iron hinges and tower bolts etc as required.	630 Sft			Sft	
43	Providing & Fixing 2" dia stainless steel pipe (18 guage) railing along with 4 Nos 3/4" dia parallel pipe having S/S pipe vertical post 2" dia at 3 ft C/C average spacing and 4' dia vertical post at start turning and end point including cost of labour, welding charges fitting & fixing completed as per direction of Engineer incharge	220 Rft			Rft	
44	P/L 3/4 inch Granite Stone Pakistani origin Tiles more than 7 Sq. ft upto 16 Sq.ft inch size fine dressed on the surface, without winding in any floor over 1 inch cement mortar 1:2 setting the marble tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar	736 Sft			100 Sft	
45	Providing & Fixing ward robe 24" deep consisting 19mm thick laminated sheet on bottom, top -sides partition, shelves & Shutters etc and 4mm thick pressed on back side, 2-1/2" X 1-1/4" best quality deodar wood frame and all open edge filled 3/4" molding PVC gola complete i/c the cost of glue iron nails screws, heavy type piano hinges 1/2" handle, catchers locks etc, complete in all respect as per direction of Engineer incharge.	2,046 Sft			P.Sft	
46	Providing and fixing 4" (100 mm) dia polyvinyl chloride rain water (PVC) down pipe with mild steel clamps, bolts and nuts fixed in cement concrete 1:2:4 etc. complete	50 Rft			P-Rft	
47	Providing and fixing 4" (100 mm) dia polyvinyle chloride (PVC) bend of any degree for rain water down pipe with clamps, bolts and nuts in cement concrete 1:2:4 etc. complete	4 Nos			P-Each	

For P.A.A.

For Contractor

48	Providing and fixing with C.P. brass screws carona main door lock with handle (Japan make) of approved design and colour (No. 21082), cutting wood etc., to required size and shape with two operating keys as per direction of the Engineer-in-Charge	18 Nos			P-Each	
49	Distempering with vinyle distemper (ICI) Dulux Paintex of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting, and filling the holes, cracks and inequalities, if any, at any height in any floor.	29952 Sft			100 Sft.	
50	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor	3708 Sft			100 Sft.	
51	Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor	930 Sft			100 Sft.	

Total

	SH:- 2-B Plumbing & Sanitation Work					
1	Making connection with the existing G.I. pipe upto 2 inches dia including cutting the pipe and providing and fixing necessary fittings.	1 Nos			Each	
2	P/F 1-1/2" Ø uPVC pipe "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm2)	520 Rft			Rft	
3	P/F 1" Ø uPVC Pipe "E" class with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm2).	240 Rft			Rft	
4	--do-- but 3/4" Ø uPVC E Class pipe	320 Rft			Rft	
5	P/F of 1-1/2 inch dia ball valve (with PVC Ball) made to B.S.S. 1212.	1 Nos			Each	
6	--do-- but 1" Ø Ball Valve	8 Nos			Each	
7	Providing and fixing Pakistani best quality European style white glazed earthenware W.,C pan complete with and including the cost of plastic seat and buffers, 13.6 litres flushing cistern with internal fittings complete, P.V.C	12 Nos			Each	

For P.A.A.

For Contractor

	flushing pipe with fittings and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.					
8	Providing and fixing squatting type W.C.Pan in white vitreous china with integral treads (Pakistani) orissa pattern and uPVC. trap 100mm dia. Complete with and including the cost of 13.6 litres best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	20 Nos			Each	
9	P/F of 22 inches x 16 inches lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of glazed earthenware half pedestal, Brass oxidized bolts kit built into walls 1/2 inches dia. Chrome plated mixer, 1-1/4 inches rubber plug and chrome plated brass chain 1-1/4 inches dia brass waste of approved pattern 1-1/4 inches dia chromium plated battal trap with unions and making requisite, number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	16 Nos			Each	
10	Providing & fixing chromium plated Muslim bib-cock with Muslim Shower of approved quality.	12 Nos			Each	
11	Providing and fixing 1/2 inches dia. (15 mm) CP Bib cocks.	20 Nos			Each	
12	P/F of 1/2 inch dia CP stop cocks/ Tee Stop Cock (Master / Faisal etc.) as directed	64 Nos			Each	
13	Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws	16 Nos			Each	
14	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete.	4 Nos			Each	
15	Providing and fixing uPVC Multi floor trape of sizes with gratings including cutting and making the requisite number of holes in walls plinth and floors and making good in 1:2:4, C.C.	48 Nos			Each	

For P.A.A.

For Contractor

16	P/F 4" dia (u.P.V.C) "E" class pipe with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm ²).	328 Rft			Rft	
17	Providing and fixing 6" x 6" (150 mm x 150 mm) with 4 inches (100 mm) outlet cement concrete C.I. gully trap wt: 42 lbs. (19 kg.) complete with 4 inches thick (100 mm) 1:2:4 cement concrete for bed and kerb, 1/2 inch (13 mm) thick cement plaster (1:3) to the kerb, C.I. grating 6 inches x 6 inches (150 mm x 150 mm) and C.I. cover and frame 12 inches x 12 inches (305 mm x 305 mm) (inside) etc., complete.	12 Nos			Each	
18	Providing manhole type 'A' size 2 feet x 1-1/2 feet) (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches dia pipes up to 3 feet-11 inches depth with cast iron cover and frame 16 inches dia, inside (weight=1 Cwt.1 Qtr.) or 63.5 kg. fixed in 4 inches thick RCC 1:2:4 slab, 8 inches thick c.c. 1:3:6 block masonry walls set in 1:3 c.m; 6 inches thick 1:3:6 c.c. in foundation 1:2:4 c.c. in benching, 1/2 inches thick cement plaster in 1:3 C.M. to all inside wall surface, channels and benching etc. and to top including making requisite number of main and branch channels but excluding the cost of excavation back filling and disposal of excavated stuff, manhole cover and frame.	14 Nos			Each	
19	Add for extra depth beyond 2 feet and up to 3 feet-11 inches (610 mm and up to 1194 mm) for 'A' type manholes (for depth lesser than 2 feet or 610 mm deduct at the same rate).	252 Inch			P-Inch	
20	Providing 12" Ø RCC pipes and collars of class 'A' and fixing in trench including cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) and testing with water to a head of 4 feet (1.22 m) above the top of the highest pipe including cartage within 10 miles	653 Rft			Rft	
21	Making connection with the existing manhole including the cost of cutting holes in walls, making them good in cement concrete 1:2:4 and .making the required channel etc., complete	1 Nos			Each	
22	Providing & laying R.C.C 1:2:4 slab cover 3" thick average (precast complete with M.S flat iron, M.S bars embedded in concrete) of any shape including the cost of reinforcement and welding etc. as per direction of Engineer Incharge.	14 Cft			Cft	
					Total	

For P.A.A.

For Contractor

	SH:- 2-C Electrical Work					
1	Providing & installing 140 Cm (56") sweep ceiling fan with blades, canopy, standard length of down rod including connection with 14.0076" flexible wire complete as required. (without regulator) Millat/Pak/Asia/ Younas/Climax/ Royal.	34 Nos			Each.	
2	Providing & installing 20 Cm (8") sweep, Double Action, Plastic body Exhaust fan complete with blades, motor and pulling cord switch etc fixed in existing hole including connection with 14.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	4 Nos			Each.	
3	Providing & installing 20 Cm (10") sweep, Double Action, Plastic body Exhaust fan complete with blades, motor and pulling cord switch etc fixed in existing hole including connection with 14.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	8 Nos			Each.	
4	Providing, Installation Testing and Commissioning of surface mounted 13W ceiling lights / downlights including driver, having warm / neutral white / cool white colour, 80-90 lm/watts efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by the engineer in charge.	64 Nos			Each	
5	Wiring for light, fan or call bell point with 1.5mm ² PVC insulated wire in (20mm) 3/4" dia PVC conduit recessed in the wall or column including 1mm ² single core, PVC insulated wire as ECC as required	208 Pts			P.Pt	
6	Providing, Installation Testing and Commissioning of 4' 20Watts LED Tube/ Batten Lights including driver having warm / Neutral White / cool white colour, 80-90 lm/watts efficiency, 0.9 or above power factor, 10000-15000 hour life cycle, including connection, complete in all respect as approved by the Engineer Incharge,	92 Nos			Each	
7	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	24 Nos			Each.	
8	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	80 Nos			Each.	
9	Providing, installation, Testing & Commissioning of Flood lights, 150 Watts, (Ip66) including driver, having cool white color (6500K), 90-110 lm/watt efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by Engineer	6 Nos			Each	

For P.A.A.

For Contractor

	incharge					
10	Providing & fixing 10 Amps 2 Gang holes sheet (switch - 02) fixed on wooden board, recessed in wall or column including connection as required.	4 Nos			Each	
11	Providing & fixing 10 Amps 4 Gang holes sheet (switch - 04) fixed on wooden board, recessed in wall or column including connection as required.	4 Nos			Each	
12	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 06) fixed on wooden board, recessed in wall or column including connection as required.	3 Nos			Each	
13	Providing & fixing 10 Amps 8 Gang holes sheet (switch - 07 , socket - 01) fixed on wooden board, recessed in wall or column including connection as required.	34 Nos			Each	
14	Providing & fixing 10 Amps 8 Gang holes sheet (switch - 06 Nos, Socket-01 Nos , Fan Dimmer-01 No) fixed on wooden board, recessed in wall or column including connection as required.	4 Nos			Each	
15	Wiring for submain with 2 x 2.5mm ² PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm(3/4")dia uPVC conduit recessed in the wall, column and roof etc as required	4816 Rft			P.Rft	
16	Wiring for submain with 2 x 6mm ² PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm(3/4")dia uPVC conduit recessed in the wall, column and roof etc as required	1324 Rft			P.Rft	
17	Wiring for submain with 2 x 10mm ² PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm(3/4")dia uPVC conduit recessed in the wall, column and roof etc as required	1079 Rft			P.Rft	
18	Wiring for sub-main with 3 core, 4mm ² PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm(3/4")dia uPVC conduit recessed in the wall, column and roof etc as required.	444 Rft			P.Rft	
19	Providing, fixing, testing and commissioning of microprocessor based 02 loop addressable fire control panel surface / recesed mounting type with full switching programming capabilities, system suitable for operation at 230 volts, 50hz with full functionality as per specification, drawing, etc. complete in all respect as approved by the engineer incharge.	1 Nos			Each	
20	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14" x 18" x 8"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos – 63 Amps, DP, MCB, Icu 10kA	10 Job			P.Job	

For P.A.A.

For Contractor

	09 Nos- 16A, SP, MCB, 6kA 01 Nos- 32A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)					
21	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14" x 18" x 8"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos – 63 Amps, DP, MCB, Icu 10kA 08 Nos- 16A, SP, MCB, 6kA 01 Nos- 32A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)	4 Job			P.Job	
22	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 12" x 12" x 8"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos – 32 Amps, DP, MCB, Icu 10kA 04 Nos- 16A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)	1 Job			P.Job	
23	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 12" x 12" x 8"(width 18", height 14", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos – 32 Amps, DP, MCB, Icu 10kA 01 Nos- 20A, SP, MCB, 6kA 01 Set – Phase indication lamps (R.Y.B)	1 Job			P.Job	
24	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 48"x36"x8"(width 48", height 36", depth 8"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 125 Amps, TP, MCCB, Icu 25kA, Ics 13kA 12 Nos – 63 Amps, DP, MCB, Icu 10kA 01 Nos – 32 Amps, DP, MCB, Icu 10kA 01 Nos – 32 A TP MCCB 2.5 kA 01 Set – 250 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job			P.Job	
					Total	

Pakistan Airports Authority
ES DIVISION CIVIL-I, JIAP



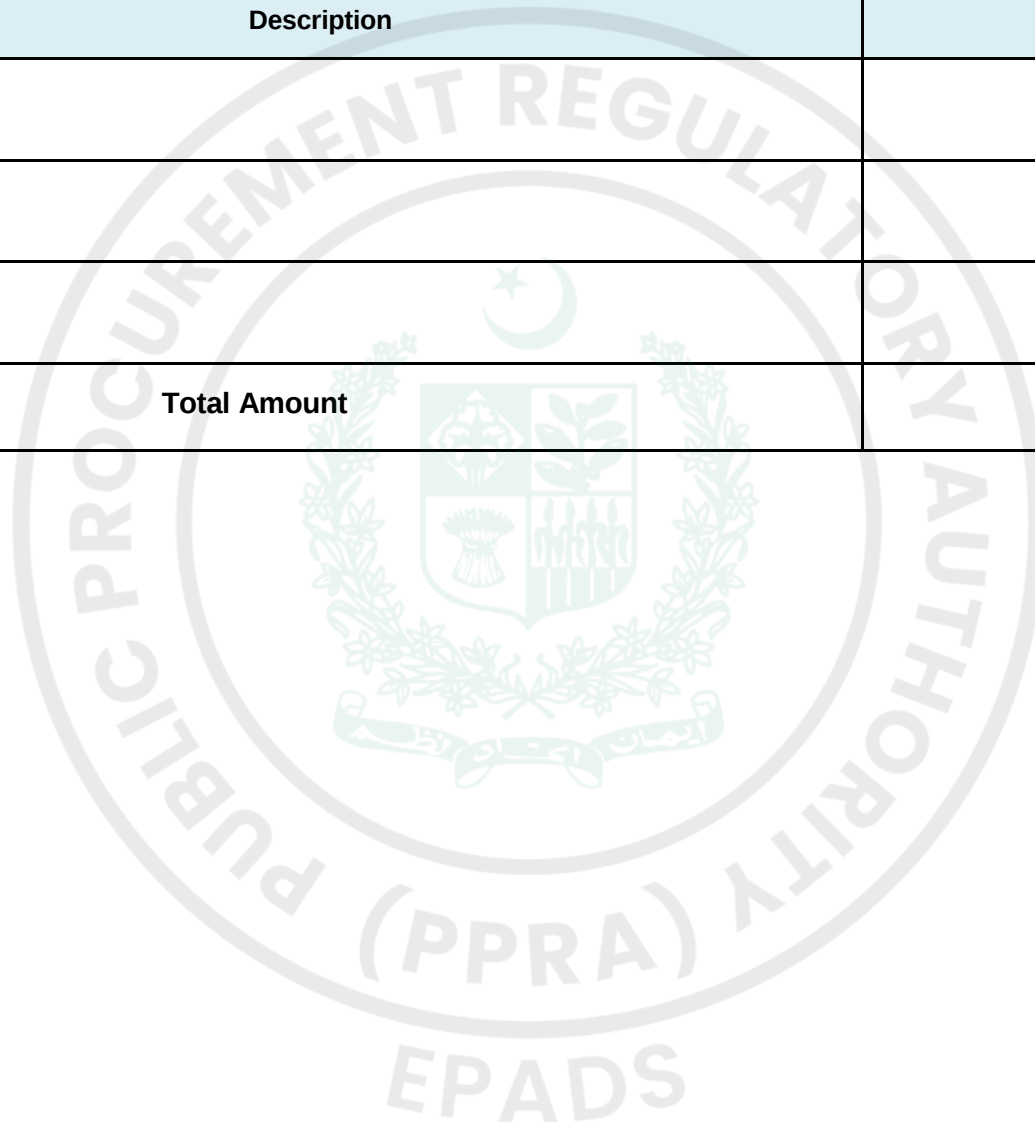
For P.A.A.

For Contractor

Bill of Quantities

NAME OF WORK: REHABILITATION OF LADIES HOSTEL AT NAAS KARACHI

S.No.	Description	Amount
SH-3-A	Civil Work	
SH-3-B	Electrification	
SH-3-C	HVAC	
	Total Amount	



PAKISTAN AIRPORTS AUTHORITY

REHABILITATION OF LADIES HOSTEL AT NAAS KARACHI

Bill of Quantities

S. No.	Description	Quantity	Rate		Unit	Amount
			in Figure	in Words		
SH:- 3-A Civil Work						
1	Taking out carefully shutters of doors and windows in ground floor and stacking as directed within three chains (91.5 m).	73 No			Each	
2	Taking out door and window frames with or without hold fasts in ground floor including cutting walls, stacking salvaged material (serviceable) and disposing of un-serviceable material as directed within three chains (91.5 m).	44 No			Each	
3	Removing damaged/worn out glazed WC's, Wash Basin etc. including stacking serviceable material in PAA store and disposing of unserviceable material or rubbish outside airport premises as directed by Engineer incharge	56 No			Each	
4	Dismantling flase ceiling on any type with wooden or aluminum frame in ground floor including stacking the salvaged material (serviceable) and disposing of unserviceable stuff as directed within three chains (91.5m)	17,977 Sft			100 Sft	
5	Dismantling rain water pipe including clamps and specials and stacking serviceable material, disposal of unserviceable material as directed within three chains (91.5 m).	990 Rft			100 Rft	
6	Dismantling cement tiled floor, dado or skirting in basement, plinth and ground floor including base mortar and stacking salvaged material (serviceable) and disposing of surplus stuff as directed within three chains	27,884 Sft			100 Sft	
7	Dismantling R.C.C. including separating reinforcement from concrete in foundation, basement, plinth and ground floor including stacking at site and disposing of unserviceable material within three chains (91.5 m)	175 Cft			100 Cft	
8	Cartage of sand, bajri, lime, surkhi, murum, manure, earth & building rubbish including loading, unloading and stacking etc at site dispose off (by mechanical means) upto 2 miles (3.2 Km) lead	2,406 Cft			100 Cft	
9	Providing and laying in situ 1:2:4 cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge in architraves, coping and cornice etc. of required shape in superstructure including compacting, curing, cost of form work and its removal etc., complete in Ground floor.	43 Cft			100 Cft.	



10	P/L RCC using crushed graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in raft or ordinary slab 5 sunshade or chajja 5 inches to 6 inches thick including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in ground floor	175 Cft			100 Cft.	
11	Providing and fixing R. S. Joists and channels including welding all the side of the sections at the junction, gusset plates, bolts, nuts etc. complete with hoisting and erecting in position in steel trusses, frames, towers etc of any design in ground floor.	343 Kg			P-Kg	
12	Providing and fixing water tank made of food grade polyethylene material 500 gallon (Supper tuff) i/c cost of specials and cartage upto site as per direction of Engineer in charge	4 Nos			Each	
13	Making connection with the existing G.I. pipe larger than 2 inches to 6 inches (50 mm to 150mm) dia including cutting the pipe and providing and fixing necessary fittings	2 Nos			Each	
14	Making connection with the existing G.I. pipe upto 2 inches (50 mm) dia including cutting the pipe and providing and fixing necessary fittings.	4 Nos			Each	
15	P/F 2 inches (50mm) dia un plasticized polyvinyl chloride pipe (u.P.V.C) "E" class with specials) and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (16.09 km) (working pressure 12 kg/cm2)	130 Rft			Rft	
16	--do-- but 1-1/2" (40mm) dia Pipe	150 Rft			Rft	
17	--do-- but 3/4"(20mm) dia Pipe	775 Rft			Rft	
18	P/F of 2 inch (50 mm) dia ball valve (with PVC Ball) made to B.S.S. 1212.	2 Nos			Each	
19	--do-- but 1-1/2" (40 mm) dia Ball Valve	2 Nos			Each	
20	--do-- but 3/4" (20 mm) dia Ball Valve	2 Nos			Each	
21	Plastering 1" thick in patches in cement sand mortar 1:4 including curing and scraping old damaged portion in regular shape and removal of rubbish from the site etc. complete as per direction of Engineer-in-Charge in any floor.	13,586 Sft			100 Sft	
22	P/F expanded metal or wire net lathing with 3/4" (19 mm) cement plaster 1:4 in 3 layers including curing etc., complete in any floor with wire-netting 1-1/2" (38 mm) mesh x 18 gauge (1,41 mm)	4,445 Sft			100 Sft	
23	Providing & Laying of Aluminum foil 4mm thick Ezogrip / Hygrip or equivalent of approved quality i/c the cost of clearing roof , cartage,	18031 Sft			Sft	

	wastage etc completed as per direction of Engineer incharge in any height in any floor					
24	Providing and fixing M.S. molded steel door frames of 5.73" x 2-1/2" (146 mm x 63 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S. 1245 having a double rebate size 1-1/2" x 1/2" (38 mm x 12 mm) provision of 3 Nos. M.S. plate, section 1-1/2" x 1/4" (38 mm x 6 mm) (2 Nos. 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:1:2 etc. in any floor at any height complete as directed by the Engineer-in-Charge	792 Rft			P.Rft	
25	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm x 30mm and 2mm thick including the cost of aluminum netting, fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge, including the cost of 5mm thick tinted glass pans	544 Sft			Sft	
26	P/F 1-1/2 inches thick solid core deodar wood flushed veneered door shutters, with and including the cost of commercial plywood facing 3 mm. thick (3 ply) on both faces, fixed over best quality deodar wood frame 2 inches wide all-round 6 inches wide lock rail and 2nd class deodar wood solid core, i/c., 1/4 inch thick best quality deodar wood lipping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fittings but excluding the cost of handles and locking arrangement.	665 Sft			P-Sft	
27	P/F 1-1/2 Inch (38 mm) thick best quality PVC /UPVC door shutter paneled (approved design), approved iron hinges and tower bolts etc as required	875 Sft			Sft	
28	P/F dampa ceiling aluminum, china make 2' x 2' tiles/ strip ceiling including all accessories i.e, plump, rod etc complete as required in any floor	3,568 Sft			P-Sft	
29	P/F Gypsum board 2' x 2' x 12mm tiles ceiling i/c Aluminum T and L angle 1" x 1" i.c hanger clips jointing clips and g.l. Wire etc complete as required in any floor	14,409 Sft			P-Sft	
30	P/F PVC hard sheet wall paneling or lining (Plain) on wall, Jambs, skirting etc. on concrete surface or on wooden backing but excluding the cost of backing etc., as required	3015 Sft			P-Sft	
31	Providing and laying light colour, glazed/non-skid vitrified porcelain tiles (Polished) exceeding 1600 Sqcm and upto 3600 each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a	27,884 Sft			100 Sft	



	base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge					
32	P/F kitchen floor cabinet making of shutter board box & 3/4 inch thick high gloss laminated lasani shutter, PVC beading PVC beading, deodar wooden frame 2.5 X 1.25 inch size making tray drawer of approved design etc, fixed with rawal plugs screws including cost of glue, nail, hinges, handles etc as per drawings, complete in all respect.	130 Sft			P-Sft	
33	Providing and fixing kitchen wall cabinet making of shutter board box & 3/4 inch thick high gloss laminated lasani shutter, PVC beading PVC sheet backing of approved design etc, fixed with rawal plugs screws i/c cost of glue, nail, hinges, handles etc as per drawing, completed in all respect	109 Sft			P-Sft	
34	Providing & Fixing ward robe 24" deep consisting 19mm thick laminated sheet on bottom, top -sides partition on, shelves & Shutters etc and 4mm thick pressed on back side, 2-1/2" X 1-1/4" best quality deodar wood frame and all open edge filled 3/4" molding PVC gola complete i/c the cost of glue iron nails screws, heavy type piano hinges 1/2" handle, catchers locks etc, complete in all respect as per direction of Engineer incharge.	1,800 Sft			P-Sft	
35	Providing and fixing Pakistani best quality European style white glazed earthenware W.C pan complete with and including the cost of plastic seat and buffers, 13.6 liters flushing cistern with internal fittings complete, P.V.C flushing pipe with fittings and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	16 Nos			Each	
36	Providing and fixing squatting type W.C.Pan in white vitreous china with integral treads (Pakistani) orissa pattern and uPVC. trap 100mm dia. Complete with and including the cost of 13.6 litres best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	32 Nos			Each	
37	P/F of 22 inches x 16 inches lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of glazed earthenware half pedestal, Brass oxidized bolts kit built into walls 1/2 inches dia. Chrome plated mixer, 1-1/4 inches rubber plug and chrome plated brass chain 1-1/4 inches dia brass waste of approved pattern 1-1/4 inches dia chromium plated battal trap with unions and making requisite, number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	12 No			Each	
38	Providing and fixing approved quality earthen ware glazed vanity basin standard size (White/light colour) and including the cost of 1-1/4" dia brass waste 1-1/4" rubber plug and chrome plated brass chain PVC waste pipe 1-1/4" dia of approved pattern etc. complete.	16 No			Each	

39	Providing & fixing chromium plated Muslim bib-cock with Muslim Shower of approved quality.	234 Nos			Each	
40	Providing and fixing 1/2 inches dia. (15 mm) CP Bib cocks.	720 Nos			Each	
41	P/F of 1/2 inch dia CP stop cocks/ Tee Stop Cock (Master / Faisal etc.) as directed	56 Nos			Each	
42	P/Fixing Toilet Paper Holder CP (Master or equivalent) Best Quality complete in any floor as directed	28 Nos			Each	
43	P/L 3/4 inch Granite Stone Pakistani origin Tiles more than 7 Sq. ft upto 16 Sq.ft inch size fine dressed on the surface, without winding in any floor over 1 inch cement mortar 1:2 setting the marble tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.	411Sft			100 Sft	
44	Providing and fixing 24 inches x 18 inches (610 mm x 457 mm) looking mirror of Imported glass 5 mm thick fixing with CP clamps and screws	30 Nos			Each	
45	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete	32 Nos			Each	
46	Providing and fixing uPVC Multi floor trap of sizes with gratings including cutting and making the requisite number of holes in walls plinth and floors and making good in 1:2:4, C.C.	48 Nos			Each	
47	P/F 4" dia (u.P.V.C) "E" class pipe with specials and clamps etc., including cutting and fitting, complete with and including the cost of breaking through walls and roof and making good etc.; after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm ²).	864 Rft			Rft	
48	Providing and fixing 6" x 6" (150 mm x 150 mm) with 4 inches (100 mm) outlet cement concrete C.I. gully trap wt: 42 lbs. (19 kg.) complete with 4 inches thick (100 mm) 1:2:4 cement concrete for bed and kerb, 1/2 inch (13 mm) thick cement plaster (1:3) to the kerb, C.I. grating 6 inches x 6 inches (150 mm x 150 mm) and C.I. cover and frame 12 inches x 12 inches (305 mm x 305 mm) (inside) etc., complete.	24 Nos			Each	
49	Providing manhole type 'A' size 2 feet x 1-1/2 feet (inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches dia pipes up to 3 feet-11 inches depth with cast iron cover and frame 16 inches dia, inside (weight=1 Cwt.1 Qtr.) or 63.5 kg. fixed in 4 inches thick RCC 1:2:4 slab, 8 inches thick	13 Nos			Each	

	c.c. 1:3:6 block masonry walls set in 1:3 c.m; 6 inches thick 1:3:6 c.c. in foundation 1:2:4 c.c. in benching, 1/2 inches thick cement plaster in 1:3 C.M. to all inside wall surface, channels and benching etc. and to top including making requisite umber of main and branch channels but excluding the cost of excavation back filling and disposal of excavated stuff, manhole cover and frame					
50	Add for extra depth beyond 2 feet and up to 3 feet-11 inches (610 mm and up to 1194 mm) for 'A' type manholes (for depth lesser than 2 feet or 610 mm deduct at the same rate)	234 Inch			P-Inch	
51	Providing 12" Ø RCC pipes and collars of class 'A' and fixing in trench including cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) and testing with water to a head of 4 feet (1.22 m) above the top of the highest pipe including cartage within 10 miles	880 Rft			Rft	
52	Making connection with the existing manhole including the cost of cutting holes in walls, making them good in cement concrete 1:2:4 and .making the required channel etc., complete	1 Nos			Each	
53	Providing & laying R.C.C 1:2:4 slab cover 3" thick average (precast complete with M.S flat iron, M.S bars embedded in concrete) of any shape including the cost of reinforcement and welding etc. as per direction of Engineer Incharge	13 Cft			Cft	
54	Providing and fixing with brass screws Alpha "W" lock knob set Plain Latch of approved design (Japan make) cutting wood to required shape and size with two operating keys as per direction of the Engineer-in-Charge.	8 Nos			Each	
55	Providing and fixing with C.P. brass screws carona main door lock with handle (Japan make) of approved design and colour (No. 21082), cutting wood etc., to required size and shape with two operating keys as per direction of the Engineer-in-Charge	36 Nos			Each	
56	Providing and fixing with brass screws or specially supplied screws hydraulic door closer Ryobi or approved design No. 72, Japan make, cutting wood etc., to required shape and size as per direction of engineer-in-charge	6 Nos			Each	
57	Distempering with vinyl distemper (ICI) Dulux Paintex of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting, and filling the holes, cracks and inequalities, if any, at any height in any floor	19755 Sft			100 Sft.	
58	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor	20478 Sft			100 Sft.	



59	Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor	1497 Sft			100 Sft.	
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Total

SH:- 3-B Electrical Work						
1	Wiring for light, fan or call bell point with 1.5mm ² PVC insulated wire in (20mm) 3/4" dia PVC conduit recessed in the wall or column including 1mm ² single core, PVC insulated wire as ECC as required	319 Pts			P.Pt	
2	Wiring for sub-main with 2 core, 2.5mm ² PVC insulated copper cable in 20mm (3/4") PVC conduit recessed in the roof, wall & column including 1.5 mm ² single core, PVC insulated copper wire as ECC as required.	20300 Rft			P.Rft	
3	Wiring for sub-main with 2 core, 6mm ² PVC insulated copper cable in 25mm (1") PVC conduit recessed in the roof, wall & column including 2.5 mm ² single core, PVC insulated copper wire as ECC as required.	11000 Rft			P.Rft	
4	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	116 Nos			Each	
5	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	69 Nos			Each	
6	Providing & fixing basic batten, surface type, fitting complete with LED Tube Light 1 x 16 watts, T8, 4 feet Philips make as Philips Cat.	146 Nos			Each	
7	Providing & fixing 6 Amps plastic ceiling rose on PVC round block / round cover fitted on surface including connection as required.	292 Nos			Each	
8	Providing & installing 30 Cm (12") sweep, metal body Exhaust fan complete with blades, motor, etc fitted in existing hole including connection with 14/.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	21 Nos			Each	
9	Providing and installation 140cm (56") ceiling fan with blades, canopy, stranded length of down rod including connection with 14.0076 flexible wire complete as reqd (Without regulator)	70 Nos			Each	
10	Providing & installing 45 Cm (18") sweep wall bracket fan, plastic body, complete with blades, fitted on wall or column with GI clip including connection with 14.0076" flexible wire complete as required.	38 Nos			Each	
11	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd.	1 Job			P.Job	

	01 No. – 125 Amps, TP, MCCB, Icu 25kA, Ics 13kA 06 Nos – 30 Amps, DP, MCB, Icu 16kA 26 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 250 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)				
12	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 100 Amps, TP, MCCB, Icu 25kA, Ics 13kA 06 Nos – 30 Amps, DP, MCB, Icu 16kA 18 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 200 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job		P.Job	
13	Supply and Installation of 18 watt LED Bulb with holder complete in all respect	19 Nos		Each	
14	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 125 Amps, TP, MCCB, Icu 25kA, Ics 13kA 10 Nos – 30 Amps, DP, MCB, Icu 16kA 32 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 250 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job		P.Job	
15	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 100 Amps, TP, MCCB, Icu 25kA, Ics 13kA 06 Nos – 30 Amps, DP, MCB, Icu 16kA 18 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 200 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job		P.Job	
16	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 100 Amps, TP, MCCB, Icu 25kA, Ics 13kA 06 Nos – 30 Amps, DP, MCB, Icu 16kA 18 Nos – 16 Amps, SP, MCB, Icu 10kA 01 Set – 200 Amps copper bus-bar 01 Set – Phase indication lamps (R.Y.B)	1 Job		P.Job	

17	Providing, installation, Testing & Commissioning of 100 Watts Flood Lights (Ip65) including driver, having cool white colour, 90-110 lm/watt efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by Engineer incharge	24 Nos			Each	
18	Providing & fixing compact/cubical 16 SWG MS, concealed type DB duly painted size 24"x18"x6"(width 12", height 18", depth 6"), proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 50 Amps, TP, MCB, Icu 10kA 06 Nos. – 16 Amps, SP, MCB, Icu 10kA 01 No. – Photoelectric EE switch, 3 Amp 01 No. – Magnetic Contactor 48 Amp, 3P+2a2b	4 Job			P.Job	
19	Wiring for sub-main with 2 core, 4mm ² PVC insulated copper cable in 25mm (1") PVC conduit recessed in the roof, wall & column including 2.5 mm ² single core, PVC insulated copper wire as ECC as required.	6500 Rft			P.Rft	
20	Providing & fixing compact/cubical 16 SWG MS, concealed type DB duly painted size 42"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 600 Amps, TP, MCCB, Icu 85kA 02 Nos. – 125 Amps, TP, MCCB, Icu 68kA 03 Nos. – 100 Amps, TP, MCCB, Icu 50kA 04 Nos. – 50 Amps, TP, MCCB, Icu 15kA Bus-Bar (01 set)-1000 A Copper Bus Bar with CTs and PT with indication meters. 01 Set – Phase indication lamps (R.Y.B)	1 Job			P.Job	
21	Providing and laying 4 core, 10 mm ² insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, armoured in 25 mm (1") dia uPVC conduit buried in the ground with 6mm ² cable as ECC dully covered with sand and warning cable tiles as per Pak. P.W.D specification as required.	1800 Rft			P.Rft	
22	Providing and fixing Earthing set with 2'x2'x1/8" copper plate buried in the existing pit (with salt and charcoal, or Earthing chemical Powder) i/c fixing of 8 SWG copper wire in 1/2 " G.I conduit complete in all respect as required.	3 Nos			Each	
23	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 04 Nos, fan dimmer - 01 No, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	71 Nos			Each	
24	Providing & fixing 10 Amps 5 Gang holes sheet (switch - 03 Nos, fan dimmer - 01 No, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	36 Nos			Each	

25	Providing & fixing 10 Amps 5 Gang holes sheet (switch - 04 Nos, No, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	40 Nos			Each	
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Total

SH:- 3-C HVAC Work

1	Providing, Installation, Energization ready for operating split type wall mounted 1.5 TR (18,000 BTU/Hr) capacity Air-Conditioner inverter, T3 type, charged with R-410 in the specified place. The job includes positioning, installation of indoor and outdoor unit at roof top of building on given MS frame with rubber foundation, nut/bolt including all interconnections for refrigerant piping, drain piping, electrical wiring, control wiring etc. Job also include Pressure testing with Nitrogen gas, leak detecting, vacuuming and top-up by charging refrigerant up to required level in the system i/c testing/commissioning of unit as per manufacturer recommendation and as per instruction of Engineer Incharge complete in all respect.	26 Job			Job	
2	Providing, Installation, Energization ready for operating split type Floor Standing 2- TR (24,000 BTU/Hr) capacity T-3 rating, inverter Air-Conditioner unit charged with R-410a as per schedule in the specified place. The job includes positioning, installation of indoor on wooden platform and outdoor unit at roof top of building with rubber foundation, nut/bolt including refrigerant piping, drain piping, electrical wiring, control wiring interconnections as per instruction of engineer incharge complete in all respect.	13 Job			Job	
3	Providing & fabrication of M.S material angle iron frame for outdoor units of 1.5 TR wall mounted split A.C unit i/c cutting, welding of frame. Job includes 01 coat of red oxide paint & 02 coat of enameled paint as per instruction of Engineer Incharge	26 Job			Job	
4	Providing & fabrication of M.S material angle iron frame for outdoor units of 02 TR floor standing type A.C unit i/c cutting, welding of frame. Job includes 01 coat of red oxide paint & 02 coat of enameled paint as per instruction of Engineer Incharge	13 Job			Job	
5	Providing installation, testing and commissioning of refrigerant copper pipe 3/8" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation, wrapping tape,etc complete in all respect as approved by the engineer incharge. Engineer Incharge.	400 RFT			RFT	
6	Providing installation, testing and commissioning of refrigerant copper pipe 5/8" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation, wrapping tape,etc complete in all respect as approved by the engineer incharge. Engineer Incharge	400 RFT			RFT	



7	Providing installation,testing and commissioning of refrigerant copper pipe 1/4" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation,wrapping tape,etc complete in all respect as approved by the Engineer Incharge.	650 RFT			RFT	
8	Providing installation,testing and commissioning of refrigerant copper pipe 1/2" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation,wrapping tape,etc complete in all respect as approved by the Engineer Incharge.	650 RFT			RFT	
9	Providing & fixing of 6 to 32 Amps S.P MCCB fixed on existing board i/c inter connection as required.	39 No			Each	
10	Wiring for sub-main with 2x4mm ² PVC insulated wire 300/500 volts grade,single core. stranded copper conductor wire including 1.5mm ² pvc insulated wire single core as ECC in 20mm (3/4") dia upvc conduit fitted on surface as required.	550 Mtr			Meter	
11	Wiring for sub-main with 4 core 4 mm ² standard copper conductor, PVC insulated and PVC sheathed circular/flat cable I/c 2.5 mm ² single core PVC insulated ware as ECC in 30 mm (1 1/4") dia UPVC conduit fitted on surface as required.	350 Mtr			Meter	
12	Providing and fixing of 1 " dia CPVC SCH 80 pipe for drain line with elbow, sockets, bends and unions from unit to main hole as per instruction of Engineer Incharge.	300 Mtr			Meter	
13	Wiring for sub-main with 3 core 2.5 mm ² standard copper conductor, PVC insulated and PVC sheathed circular/flat cable I/c 1.5 mm ² single core PVC insulated ware as ECC in 25 mm (1") dia UPVC conduit fitted on surface as required.	750 Mtr			Meter	
					Total	

Pakistan Airports Authority

ES DIVISION CIVIL-I, JIAP

Bill of Quantities

NAME OF WORK: CONSTRUCTION OF ACADEMIC BLOCK IN NAAS AT KARACHI
(BALANCE WORKS)

S.No.	Description	Amount
SH-4-A	Civil Works	
SH-4-B	Plumbing Works	
SH-4-C	Construction of Boundary Wall	
SH-4-D	Electric Works	
SH-4-E	HVAC Works	
SH-4-F	Interior Finishing / Furniture	
	Total Amount	

PAKISTAN AIRPORTS AUTHORITY

CONSTRUCTION OF ACADEMIC BLOCK IN NAAS AT KARACHI
(BALANCE WORKS)

Bill of Quantities

S. No.	Description	Quantity	Rate		Unit	Amount
			in Figure	in Words		
SH:- 4-A Building Work						
1	Providing a coat of bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm) on walls and floor in ground floor.	29,728Sft			100 Sft	
2	Providing and laying 1:9 cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge In terracing 3 inches (76 mm) average thickness to required slope in panels including form work, consolidation, finishing, curing etc. and painting the surface with plastic bitumen No. 4 at the rate of 15 lbs per hundred square feet (0.73 Kg per s.m) blinded with sand at the rate of 2 cubic feet per hundred square feet (0.06 Kg per s.m) complete" on ground floor roof.	29,728 Sft			100 Sft	
3	Providing & laying of Aluminum foil 4mm thick Ezogrip / Hy-Grip of approved quality i/c the cost of clearing roof , cartage, wastage etc completed as per direction of Engineer incharge in any height in any floor	29,728 Sft			P- Sft	
4	P/L R.C.C. using crushed graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq. inch at 28 days with a mix not leaner than 1:2:4 in precast shelves 1-1/2 inches to 2 inches thick including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in any floor	76 Cft			100 Cft	
5	--do-- but RCC 1:2:4 in ordinary slab 3 inches to less than 5 inches thick	475 Cft			100 Cft	
6	Providing and fixing 1:2 precast reinforced or plain cement concrete jali or louvers upto 2 inches (51 mm) thick in required shape including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor (no deduction for holes shall be made)	2,796 Cft			100 Cft.	
7	Providing and laying floors of 3 inches thick 1:2:4 cement concrete using graded screened bajri 3/4 inch and down gauge in ground floor laid in panels including form work,	51,168 Sft			100 Sft	



	consolidation, finishing and curing etc. complete.					
8	P/L light colour, glazed / non-skid vitrified porcelain tiles (Polished) exceeding 3600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	1,900 Sft			100 Sft	
9	P/L light colour, glazed/non-skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm and upto 3600 each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	31,473 Sft			100 Sft	
10	P/L floor of 3/4 inch thick white marble tiles, more than one Sq. inch upto 3 Sq.ft inch size fine dressed on the surface, without winding in ground floor over 1 inch cement mortar 1:2 (one lime, two sand) setting the marble tile with grey cement slurry over lime mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.	28,070 Sft			100 Sft	
11	--do-- but in 1st Floor	26,705 Sft			100 Sft	
12	P/L floor of 3/4 inch thick Granite Stone (Pakistani origin) tiles more than 5 Sq. inch upto 7 Sq.ft inch size fine dressed on the surface, without winding in ground floor over 1 inch cement mortar 1:2 setting the tile with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.	12,176 Sft			100 Sft	
13	P/F 1-1/2 Inch (38 mm) thick best quality PVC /UPVC door shutter paneled (approved design), approved iron hinges and tower bolts etc as required.	1,844 Sft			P-Sft	
14	P/F uPVC Sliding windows complete with and including cost of 5mm thick tinted glass in sliding panels, fly proof screen shutter consisting 86mmx52mm size main frame, 18mm thick sliding and fly screen shutter frame etc complete with handles, locks as per manufacturer's specification and direction of Engineer incharge.	3,742 Sft			P-Sft	
15	Providing & Fixing 2' dia stainless steel pipe (18 guage) railing alongwith 4 Nos 3/4" dia parallel pipe having S/S pipe vertical post 2" dia at 3 ft C/C average spacing and 4' dia vertical post at start turning and end point including cost of labour, welding charges fitting & fixing .completed as per direction of Engineer incharge	2,760 Rft			P-Rft	
16	Providing and fixing one inch (25 mm) thick best quality deodar wood planking in shelves on deodar wood brackets each having	1,647 Sft			P-Sft	



	cross sectional area approximately 4 square inches (26 SqM.) and spaced at 4 feet (0.9 m) centre to centre fixed to walls with screws and rawal plugs etc., as required					
17	Providing and fixing 2 inch (51 mm) thick best quality deodar wood shutters fully panelled with same wood, approved iron hinges and tower bolts, etc., as required	7,643 Sft			P-Sft	
18	Providing and fixing 2 inches (51 mm) thick best quality deodar wood shutters partly panelled and partly glazed with 1/4 inch (6.4 mm) thick plate glass of approved quality, approved iron hinges and tower bolt, deodar wood beading and putty packing to glasses etc., as required	364 Sft			P-Sft	
19	Providing and fixing with brass screws Alpha knob set lock of approved design (No. 7000) Japan make, cutting wood to required shape and size with two operating keys as per direction of the Engineer-in-Charge	321 Nos			Each	
20	Providing and fixing with brass screws or specialty supplied screws hydraulic door closer Rayobi of approved design No. 62, Japan make, cutting wood etc., to required shape and size as per direction of engineer-in-charge.	215 Nos			Each	
21	Providing and fixing on frames etc., with sunken iron screws best quality deodar wood moulding, beading, architrave etc., of approved design over one square inch and up-to 2 square inches in cross section as required	4,816 Rft			P-Rft	
22	Distempering with vinyle distemper (ICI) Dulux Paintex of approved make and shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting, and filling the holes, cracks and inequalities, if any, at any height in any floor.	57,829 Sft			100 Sft	
23	Painting with (ICI) Dulux plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface at any height in any floor	136,572 Sft			100 Sft	
24	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor.	78,202 Sft			100 Sft.	
25	Painting iron work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor	7,484 Sft			100 Sft	
26	Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor	15,286 Sft			100 Sft	
					Total	



SH:- 4-B Plumbing Work						
1	Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. (13.6 liters) white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches (40mm) dia white porcelain enameled flush bend, 3/4 inch (20mm) dia, G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	46 Nos			Each	
2	Providing and fixing squatting type W.C.Pan in white vitreous china with integral treads (Pakistani) orissa pattern and C.I. trap 100mm dia. Complete with and including the cost of 13.6 litres best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	24 Nos			Each	
3	Providing and fixing 22 inches x 16 inches lavatory basin in white glazed earthenware (Pakistani) complete with and incl cost of CP lever mixer (master or equivalent), Brass oxidized bolts kit built into walls 1/2 inches dia. Chrome plated mixer, 1 1/4 inches rubber plug and chrome plated brass chain 1-1/4 inches dia brass waste of approved pattern 1-1/4 inches dia chromium plated battal trap with unions and making requisite, number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4.	26 Nos			Each	
4	Providing and fixing approved quality earthen ware glazed vanity basin standard size (White/light colour) and including the cost of 1-1/4" dia brass waste 1-1/4" rubber plug and chrome plated brass chain PVC waste pipe 1-1/4" dia of approved pattern incl cost of CP lever mixer (master or equivalent) etc. complete.	44 Nos			Each	
5	Providing and fixing approved quality stainless steel sink 33" x 18" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls 1/2" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	2 Nos			Each	
6	Providing and fixing 1/2 inch (15 mm) dia plastic connection complete with a 1/2 inch (15 mm) dia brass stop cock two brass nuts and lining jointed to plastic pipe	214 Nos			Each	
7	Providing & fixing chromium plated Muslim bib-cock with Muslim Shower of approved quality	70 Nos			Each	
8	P/F Chromium Plated Brass Bottle Trap with union & pipe, 1-1/2 inches dia.	70 Nos			Each	

9	Providing and fixing Royal bath room accessories of set of 7 pieces consist of one cosmetic shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc complete of approved quality as per direction of Engineer in-charge.	24 Nos			Each	
10	Providing & Fixing Royal Soap Dish	44 Nos			Each	
11	Providing and fixing 24"x3/4" dia approved quality of chrome plated brass towel rail complete with brackets fixed with 1" long C.P brass screws and rawal plug.	33 Nos			Each	
12	Providing and fixing approved quality C.P. brass toilet paper holder.	70 Nos			Each	
13	Providing and fixing 24 inches x 18 inches Looking mirror of Belgium glass complete with Plastic frame and C.P. Brass screws.	70 Nos			Each	
14	Providing and fixing uPVC Multi floor trape of sizes with gratings including cutting and making the requisite number of holes in walls plinth and floors and making good in 1:2:4, C.C.	210 Nos			Each	
15	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete	96 Nos			Each	
16	Providing and fixing Shower tray made of fiber glass of any colour and design 31 inches x 31 inches	96 Nos			Each	
17	Providing & Fixing uPVC Vent Cowel 110mm dia.	17 Nos			Each	
18	Supply & Fixing uPVC Vent Cowel 75mm dia	26 Nos			Each	
19	Providing and fixing un platized polyvinyl chloride pipe (P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm ²)					
a	2" dia	559 Rft			P.Rft	
b	3" dia	762 Rft			P.Rft	
c	4" dia	1,410 Rft			P.Rft	
d	6" dia	23 Rft			P.Rft	

20	Providing manhole type 'A' size 2 feet x 1-1/2 feet (inside dimensions) x 2 feet deep as per approved design and specifications complete for 4 inches to 12 inches dia pipes up to 3 feet-11 inches depth with cast iron cover and frame 16 inches dia, inside (weight=1 Cwt.1 Qtr.) or 63.5 kg. fixed in 4 inches thick RCC 1:2:4 slab, 8 inches thick c.c. 1:3:6 block masonry walls set in 1:3 c.m; 6 inches thick 1:3:6 c.c. in foundation 1:2:4 c.c. in benching, 1/2 inches thick cement plaster in 1:3 C.M. to all inside wall surface, channels and benching etc. and to top including making requisite number of main and branch channels but excluding the cost of excavation back filling and disposal of excavated stuff, manhole cover and frame.	50 Nos			Each	
21	Add for extra depth beyond 2 feet (610 mm) and upto 3 feet-11 inches (1.19 M) for 'A' type manholes (for depth lesser than 2 feet or 610 mm deduct at the same rate).	100 Inch			Inch	
22	Providing & fixing C.I Cover & Frame 18" dia (460 mm) weight 1 cwt 3 Qtr (88.90 Kg.)	50 Nos			Each	
23	Providing manhole type 'B' size 3 feet x 2-1/2 feet (inside dimensions) x 4 feet deep as per approved design and specifications complete 4 inches to 12 inches dia. pipes 4 feet to 7 feet-5 inches depth with cast iron cover and frame 18 inches dia. (inside) weight -1 Cwt. 3 Qtrs. (88.90 kg.) in 6 inches thick RCC 1:2:4 slab, 8 inches thick c.c. 1:3:6 block masonry walls set in 1:3 c.m. 6 inches thick, 1:3:6, c.c in foundation 1:2:4 c.c in benching, 1/2 inch thick cement plaster in 1:4 c.m. to all inside wall surfaces, channels and benching etc. and to top including providing and fixing cast iron foot rest at every foot of depth and making requisite number of main and branch channels complete but excluding the cost of excavation, back filing, disposal of excavated stuff manhole cover and frame	1 Nos			Each	
24	Add for extra depth beyond 4 feet and up to 7 feet -5 inches (1.22 m and up to 2.26 m) 'B' type manholes and including the cost of cast iron foot rest at every foot (305 mm) of depth, (for depth lesser than 4 ft. (1.22 m) deduct at same rate)	2 Inch			Inch	
25	Providing & fixing C.I Cover & Frame 30" dia (765 mm) weight 3 cwt (152.41 Kg.)	1 Nos			Each	
26	Providing G.I. pipes, specials and clamps etc., including fixing cutting and fitting complete with and including the cost of breaking through walls and roof, making good etc., painting 2 coats after cleaning the pipe etc.; with white zinc paint with pigment to match the colour of the building and testing with water to a pressure head of 200 feet (61 M) and cartages within 10 miles (16.09 km.) (IILM)					
a	3/4" Ø (20 mm) dia.	23 Rft			P.Rft	
b	1" Ø (25mm) dia.	1,080 Rft			P.Rft	

27	Providing and fixing of uPVC Trap for Water Closet P or S type complete with ring	24 Each			Each	
28	Providing and fixing 1 inches (25 mm) dia full way gun metal valves with wheels threaded or flanged ends with rubber washers, (standard pattern)	134 Each			Each	
29	--do-- but 1-1/4" (32mm) dia	27 Each			Each	
30	--do-- but 2-1/2" (65mm) dia	9 Each			Each	
31	P/F Fire Extinguishers 5 kg capacity filled with carbon dioxide operated using the PASS technique (Pull, Aim, Squeeze, Sweep). Key types include ABC Dry Chemical for general home use, CO ₂ for electrical fires, and Water or Foam for organic materials complete as directed	48 Each			Each	

Total

SH:- 4-C Construction of Boundary Wall

1	Clearing jungle (dense) by cutting, removing all shrubs, trees, upto 6 inches (152 mm) girth, etc. and taking out their entire roots and filling the hollows with earth complete with dressing, consolidating and watering the filling including stacking the serviceable materials and disposal of useless material as directed, lead to 10 chains (305 Rm), cost of earth included.	44,400 Sft			100 Sft	
2	Dismantling cement concrete block masonry work in lime or cement mortar in foundation, basement, plinth and ground floor including stacking salvaged material (serviceable) and disposing of surplus material as directed with in three chains	7,104 Cft			100 Cft.	
3	Excavation for foundation trenches in all kinds of soil and back filling the excavated material in foundation, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead upto one chain and lift upto 5 feet.	10,752 Cft			100 Cft	
4	Providing and laying 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 1 inch and down gauge in foundation including levelling, compacting and curing etc.complete.	1,716 Cft			100 Cft	
5	P/L RCC using crushed graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. per sq inch at 28 days with a mix not leaner than 1:2:4 in column footing of required shape including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth	2,442 Cft			100 Cft	
6	--- do --- but in columns of square or rectangular shape of r	336 Cft			100 Cft	

7	--- do --- but in plinth beams of required shape and design in	720 Cft			100 Cft	
8	--- do --- but in columns of square shape of regular section	1,344 Cft			100 Cft	
9	Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or m.s. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under- ground tanks and in projections for future extension	13,119 Kg			P.Kg	
10	P/Fixing of 25mm Thermosole sheet in cavity of RCC Pillars including the cost of cutting, wastage, cartage etc. complete as directed in any Floor	154 Sft			Sft	
11	P/L 1:3:6 Machine Made C.C. solid block masonry 4 to 6 inches thick using graded screened bajri 3/4 inch and down gauge set in cement sand mortar 1:6 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure.	5,300 Cft			100 Cft	
12	P/L in situ 1:2:4 cement concrete using crushed graded boulders 3/4 inch and down gauge in architraves, coping and cornice etc. of required shape in superstructure including compacting, curing, cost of form work and its removal etc., complete in ground floor	370 Cft			100 Cft	
13	1/2" thick cement plaster 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, and curing etc., complete.	31,604 Sft			100 Sft.	
14	Providing and fixing M. S. tees, angles and flats including welding all the sides of the section at the junction, gusset plates, bolts, nuts etc. complete with hoisting and erecting in position in steel trusses, frames, towers etc. of any design in ground floor...	1,094 Kg			P-KG	
15	Providing and fixing galvanized iron barbed wire fencing (with two points) to the posts of any description complete with hooks and binding wire etc. if required (cost of posts not included).	270 Kg			P-KG	
16	Providing & fixing G.I Razor wire 18 gauge 1.6" dia at 6" center to center with double razor and 1/4 inch dia G.I wire bars at top and bottom etc complete completed as per direction of Engineer incharge	1,005 Kg			P-KG	
17	Providing & fixing steel gate of required sections of approved design with or without M.S. sheet covering i/c hold fasts, with or without rollers and track arrangement, wicket shutter of required size with all accessories and locking arrangement complete as per direction of the Engineer in-charge	655 Kg			P-KG	

18	Painting iron work with synthetic enamel paint of approved make & shade two coats over and including the cost of priming coat complete at any height in any floor	859 Sft			100 Sft	
19	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor	31,604 Sft			100 Sft	
					Total	
SH:- 4-D Electric Work						
1	Providing & fixing basic batten, surface type, fitting complete with LED Tube Light 1 x 16 watts, T8, 4 feet Philips make as Philips Cat.	280 Nos			Each	
2	Providing and installation 140cm (56") ceiling fan with blades, canopy, stranded length of down rod including connection with 14.0076 flexible wire complete as reqd (Without regulator)	145 Nos			Each	
3	Providing & installing 30 Cm (12") sweep, metal body Exhaust fan complete with blades, motor, etc fitted in existing hole including connection with 14/.0076" flexible wire complete as required Millat/Pak/Asia/ Younas/Climax/ Royal.	20 Nos			Each	
4	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(E15 Clipsal make)	170 Nos			Each.	
5	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider/philips)	80 Nos			Each.	
6	Wiring for light, fan or call bell point with 1.5mm ² PVC insulated wire in (20mm) 3/4" dia PVC conduit recessed in the wall or column including 1mm ² single core, PVC insulated wire as ECC as required	600 Pts			P.Pt	
7	Wiring for sub-main with 2 core, 2.5mm ² PVC insulated cable in 20mm (3/4") PVC conduit recessed in the roof, wall & column including 1.5 mm ² single core, PVC insulated wire as ECC as required.	17,800 Rft			P.Rft	
8	Wiring for sub-main with 2 core, 6mm ² PVC insulated cable in 25mm (1") PVC conduit recessed in the roof, wall & column including 2.5 mm ² single core, PVC insulated wire as ECC as required.	2480 Rft			P.Rft	
9	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 04 Nos, fan dimmer - 01 No, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	140 Nos			Each	

10	Providing & fixing 10 Amps 5 Gang holes sheet (switch - 04 Nos, socket - 01 No) fixed on wooden board, recessed in wall or column including connection as required.	15 Nos			Each	
11	Providing & fixing 10 Amps 6 Gang holes sheet (switch - 06 Nos) fixed on wooden board, recessed in wall or column including connection as required.	12 Nos			Each	
12	Providing & fixing 10 Amps 1 Gang holes sheet (switch - 01 Nos) fixed on wooden board, recessed in wall or column including connection as required.	5 Nos			Each	
13	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 2 Nos – 32 Amps, SP, MCB, Icu 6kA 8 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	34 Jobs			P.Job	
14	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 6 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	2 Jobs			P.Job	
15	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 1 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	2 Jobs			P.Job	
16	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 3 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	6 Jobs			P.Job	
17	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 14"x18"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 No. – 63 Amps, SP, MCB, Icu 6kA 4 Nos – 32 Amps, SP, MCB, Icu 6kA 16 Nos – 16 Amps, SP, MCB, Icu 6kA 01 Set – Phase indication lamps (R.Y.B)	1 Jobs			P.Job	

18	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 16 No. – 63 Amps, SP, MCB, Icu 6kA 1 Nos – 125 Amps, TP, MCCB, Icu 25kA 01 set Bus Bar 250 A 01 Set – Phase indication lamps (R.Y.B)	2 Jobs			P.Job	
19	Providing and laying 4 core, 10 mm ² insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, armoured in 25 mm (1") dia uPVC conduit with 6mm ² as ECC as per Pak. P.W.D specification as required.	300 Rft			P.Rft	
20	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 2 Nos – 125 Amps, TP, MCCB, Icu 25kA 01 Nos – 250 Amps, TP, MCCB, Icu 25kA 01 Nos- 50A TP HBC MCCB 01 set Bus Bar 400 A 01 Set – Phase indication lamps (R.Y.B)	1 Jobs			P.Job	
21	Providing, installation, Testing & Commissioning of 100 Watts Flood Lights (Ip65) including driver, having cool white colour, 90-110 lm/watt efficiency, 0.9 or above power factor, 20000-25000 hours life cycle, including connection, complete in all respect as approved by Engineer incharge	15 No			Each	
22	Providing & fixing compact/cubical 16 SWG MS, wall mounted type DB duly painted size 30"x24"x6", proper locking arrangement, separate neutral bus-bar and comprising on followings i/c making connection & testing on load etc, complete as reqd. 01 Nos- 50A TP HBC MCCB 03 Nos- 16 A SP MCB 01 Set – Phase indication lamps (R.Y.B)	1 Jobs			P.Job	
23	Providing and fixing manual operated star delta starter suitable for 5-10 HP AC 3-phase 50 Hz supply upto 12/20 A trip rating on a prepared board.	1 No			Each	
24	Providing and fixing centrifugal pumping set complete with 5 HP 2850/2900 RPM 380/400 V 50 Hz 3 phase IE 2 classification AC motor with centrifugal pump having suction and discharge 2 x 1 1/2 coupled on a common base plate as approved by the engineer incharge. add 25% enhancement	1 No			Each	
					Total	

SH:- 4-E HVAC Work						
1	Providing, Installation, Energization ready for operating split type wall mounted 02 TR (24,000 BTU/Hr) capacity Air-Conditioner inverter, T3 type, charged with R-410 in the specified place. The job includes positioning, installation of indoor and outdoor unit at roof top of building on given MS frame with rubber foundation, nut/bolt including all interconnections for refrigerant piping, drain piping, electrical wiring, control wiring etc. Job also include Pressure testing with Nitrogen gas, leak detecting, vacuuming and top-up by charging refrigerant up to required level in the system i/c testing/commissioning of unit as per manufacturer recommendation and as per instruction of Engineer Incharge complete in all respect.	54 Job			Job	
2	Providing, Installation, Energization ready for operating split type Floor Standing 2- TR (24,000 BTU/Hr) capacity T-3 rating, inverter Air-Conditioner unit charged with R-410a as per schedule in the specified place. The job includes positioning, installation of indoor on wooden platform and outdoor unit at roof top of building with rubber foundation, nut/bolt including refrigerant piping, drain piping, electrical wiring, control wiring interconnections as per instruction of engineer incharge complete in all respect.	10 Job			Job	
3	Providing & fabrication of M.S material angle iron frame for outdoor units of 02 TR wall mounted split A.C unit i/c cutting,welding of frame. Job includes 01 coat of red oxide paint & 02 coat of enameled paint as per instruction of Engineer Incharge	54 Job			Job	
4	Providing & fabrication of M.S material angle iron frame for outdoor units of 02 TR floor standing type A.C unit i/c cutting,welding of frame. Job includes 01 coat of red oxide paint & 02 coat of enameled paint as per instruction of Engineer Incharge	10 Job			Job	
5	Providing installation,testing and commissioing of refrigerant copper pipe 3/8" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation,wrapping tape,etc complete in all respect as approved by the engineer incharge. Engineer Incharge.	1920 RFT			RFT	
6	Providing installation,testing and commissioing of refrigerant copper pipe 5/8" size 22 gauge with all type of fitting like,elbow,clamping,aero flex insulation,wrapping tape,etc complete in all respect as approved by the engineer incharge. Engineer Incharge.	1920 RFT			RFT	
7	Providing & fixing of 6 to 32 Amps S.P MCCB fixed on existing board i/c inter connection as required.	64 Each			Each	
8	Wiring for sub-main with 4 core 4 mm ² standard copper conductor, PVC insulated and PVC sheathed circular/flat cable i/c 2.5 mm ² single core PVC insulated ware as ECC in 30 mm (1 1/4") dia UPVC conduit fitted on surface as required.	1800 Mtr			Meter	

9	Providing and fixing of 1 " dia CPVC SCH 80 pipe for drain line with elbow, sockets, bends and unions from unit to main hole as per instruction of Engineer Incharge.	500 Mtr			Meter	
10	Wiring for sub-main with 3 core 2.5 mm ² standard copper conductor, PVC insulated and PVC sheathed circular/flat cable l/c 1.5 mm ² single core PVC insulated wire as ECC in 25 mm (1") dia UPVC conduit fitted on surface as required.	1250 Mtr			Meter	
					Total	
SH:- 4-F Furniture						
1	Providing and installation at site Single Beds (78"x 42" x18" Size) structure made of solid Acacia wood and shesham veneer sheet, all exposed edges covered with Solid wood gola. Both end boards made of 2" thick solid acacia wood with shesham veneer panel, Head board height 36" inches & Foot board height 24" Bed long arms made of Acacia solid wood 1.5" thick and 5" wide. Bed base will be covered with solid wood frame and MDF Sheet (16mm or above) including laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work including 6 inches thick Mattress (Molty Foam or equivalent) complete as directed .	216 No			Each	
2	Providing and installation at site Bed Side Table (24"x 18"x 18" Size) structure made of solid seasoned Acacia wood and shesham veneer sheet, having one open shelf and one drawers operated with best quality runner / channels and locking arrangement including laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed	216 No			Each	
3	Providing and installation at site Study Table (SIZE ; 48"x18"x30") frame made of solid seasoned shesham wood with veneered sheet top 2" thick having two drawers operated with best quality runner / channels and locking arrangement, table top made of 2" thick veneered wood with victorian profile including cost of study Chair made of sheesham wood with premium quality fabric of approved quality and shade integrated with moulded foam large seat have fire retarding properties. Seat back should be covered with high quality Nylon Mesh and PU base fixed with seat and arms .Soft Pu arms with provision of fixing with back and seat, hydraulic, gas tilt, lockable tilting mechanism. Nylon fiber base, PU coated caster Complete as directed	216 No			Each	
4	Providing and installation at site Wooden Almirah (SIZE; 42"x20"x72") (Double Door) made of solid Shesham wood frame and covered with 19mm thick veneer pressed lasani sheet, having Partition and adjustable shelves of same sheet. incl cost of handles, locking arrangement and other brass mongery etc. cost of laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed	106 No			Each	



5	Providing and installation at site Dressing Table of Size; 42" X 18" X 30" structure made of shesham veneer sheet and solid seasoned Shesham wood, having Six drawers operated with best quality runner / channels and locking arrangement. edges covered with solid wood lipping. including cost of mirror panel 36"X48" made of 19mm sheesham veneered sheet fixed on sheesham wooden battens front covered with 5mm looking mirror with aluminum / PVC angle lipping on mirror edges incl cost of laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed	96 No			Each	
6	Providing and installation at site TV Tables of size 72"X18"X36" Size (Officer Room) structure made of 19mm shesham veneer sheet and solid seasoned shesham wood, having one drawer operated with best quality runner / channels and locking arrangement. and two cabinets with glass door with push type self closer. solid wood lipping on edges. incl cost of laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed	24 No			Each	
7	Providing and installation at site 3 Seater Sofa of size 7'-9" x 2'-9" x 2'-7" structure made of solid shesham / acacia wood and commercial ply, seat and backrest covered with best quality foam and premium quality fabric / leathride of approved quality and shade with polish finish to exposed wooden surfaces. complete as directed.	24 No			Each	
8	Providing and installation at site Centre Table 48"x 24"x 17" made of 19mm thick pressed veneered board, base and legs made of solid shesham wood treated with termite proofing in approved design, top made of veneer and inlay pressed on top as a border and cross lining in middle incl cost of laquare polishing / Deco Paint (As approved by Engineer incharge) in required shade and tone to exposed wood work complete as directed .	10 No			Each	
9	Providing and installation at site 5 Seater Sofa set consisting of 1 No 3 seater sofa of size 7'-9" x 2'-9" x 2'-7" and 02 No single seater sofa of size 3'-6"x2'-10"x2'-3" structure made of solid shesham / acacia wood and commercial ply, seat and backrest covered with best quality foam and premium quality fabric / leathride of approved quality and shade with polish finish to exposed wooden surfaces. complete as directed.	10 No			Each	
10	Providing and installation at site Dining Table of size 48"x48"x30" structure made of solid shesham wood with 2" thick top Cross veneer and traditional inlay work, base made of Solid shesham wood, legs should be 75mm thick from base incl cost of 04 Nos dining chairs structure made of solid seasoned shesham wood all treated with termite treatment. , seat upholstered with best quality imported patti and master molty foam covered with best quality fabric. seat back made of solid shesham wood with polish finish to exposed wooden surfaces. complete as directed.	35 No			Each	
11	Providing and installation at site Office Tables 60"X30"X30" structure made of 19mm MDF pressed sheet edges covered with 2mm thick PVC lipping all parts should be jointed with KD fitting, top made of 38mm thick and covered with PVC edging including cost of side racks 42"X18"X30" having	2 No			Each	

	6 drawers and one key board tray in middle complete with polishing in required shade as directed					
12	Providing and installation at site office chair PU material seat top covered with moulded foam and premium woven net fabric and back cushion have fire retarding properties laminated over 3D molded ply shell vinyl backing Soft PU arms with hydraulic /gas tilt, lockable tilting mechanism. Nylon fiber base, complete as directed	4 No			Each	
13	Providing and installation at site Chairs with cushion Medium Back Seat Structure to be made of 5mm thick best quality plywood mounted over a seasoned solid Shesham wood structure, the chair is to be upholstered with high quality Master Molty foam & covered with imported leatherette. seat and back should be tufted. Legs should be 60 mm thick and in solid seasoned shesham wood, The Armrests and all open parts made of solid seasoned shesham wood and stained in Natural and clear lacquered in UV finish (2k, poly urethane finish and has scratch resistant. all as directed	50 No			Each	
14	Providing and installation at site Table tennis of size 2740mmx1525mmx760mm Structure made of MS powder coated Pipe top made of 19mm thick MDF veneered sheet with net and rackets complete as directed	6 No			Each	
15	Providing and installation at site Snooker Table of size 12ftx6ftx2.50ft structure made of solid wood and top made of 25mm granite slab covered with premium fabric complete as directed	3 No			Each	
					Total	