Standard Bidding Document

Operationalization of Dalbandin Airport (Rehabilitation of Airside Pavements, Security Fence, PTB and Allied Works) (Works)

National

Single Stage-One Envelope

November 23, 2026

Quetta Airport (Pakistan Airports Authority (PAA)),Secretary
Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province).
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Table of Contents

REQUEST FOR BIDS 1

Instructions to Bidders 3

Bid Data Sheet 30

Eligibility Criteria 35

Evaluation Criteria 36

Jobs/Lots 36

Work Specifications and Market Rates 38

Scope of Work 303

Brief Description 305

Price Schedule 307

General Conditions of Contract 309

Special Conditions of Contract 311

Bid Securing Declaration 329

Contract Form 331

DAAB Agreement 334

Retention Money Security Demand Guarantee 1

Integrity Pact 339

Performance Guarantee Form 341

Annexure 344

Adjustment Data 345

Bid Securing Declaration 329

Contract Document 345

Bill of Quantities 345

Procurement Forms 346

Historical Contract Non-Performance, and Pending Litigation and Litigation History 1

Additional Forms and Documents 349

REQUEST FOR BIDS

PROCUREMENT OF CIVIL WORKS

1. The **Quetta Airport (Pakistan Airports Authority (PAA))** has reserved Funds for the procurement planned for FY **2026-27**. The **Quetta Airport (Pakistan Airports Authority (PAA))** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the " **Operationalization of Dalbandin Airport (Rehabilitation of Airside Pavements, Security Fence, PTB and Allied Works)**" with the reference of **"P202140"**

2. The **Quetta Airport (Pakistan Airports Authority (PAA))** invites electronic Bids from eligible Bidders for procurement of Works **(Operationalization of Dalbandin Airport (Rehabilitation of Airside Pavements, Security Fence, PTB and Allied Works))** described in the bidding documents on **EPADS v2.0**.

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

4. All Bids must be accompanied by a Bid Security amounting described in Bid Security Section in Bidding Document in the form of . 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/202140** 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, November 25, 2026 02:00 PM. E-bids will be opened by using **EPADS v2.0** on the same day at **Wednesday, November 25, 2026 02:30 PM**. Manual submission of Bids shall not be entertained. Those vendor who have not yet registered on the new version of **EPADS v2.0**, may register themselves on **https://vendors.epads.gov.pk/**. A tutorial to explain the registration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc.**

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

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Instructions to Bidders

A. INTRODUCTION

1. **Scope of Bid**

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

2. **Source of Funds**

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

3. **Eligible Bidders**

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

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

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

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

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

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

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

3.3.2. have controlling shareholders in common; or

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

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

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

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

3.4. A Bidder may be ineligible if –

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

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

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

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

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

4. **Eligible Material and Equipment**

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

B. BIDDING DOCUMENTS

5. **Contents of Bidding Documents**

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

i. Section I Instructions to Bidders (ITBs)

ii. Section II Bid Data Sheet (BDS)

iii. Section III Evaluation and Qualification Criteria

iv. Section IV Bidding Forms

v. Section V Eligible Countries

vi. Section VI Works Requirements

vii. Section VII General Conditions of Contract (GC)

viii. Section VIII Particular Conditions of Contract (PC

ix. Section IX Contract Forms

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

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

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

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

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

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

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

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

6.7. The bidder and any of its authorized personnel will be granted permission by the Procuring agency/Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder and its personnel will release and indemnify the Procuring agency/Employer from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

7. **Amendment of Bidding Documents**

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

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

three (03) days of the bid submission deadline.

C. PREPARATION OF BIDS

8. Language of Bid

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

9. **Documents Comprising the Bids**

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

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

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

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

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

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

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

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

9.1.8. Any other Document required in the BDS.

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

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

9.2.2. One of the joint venture partners shall be nominated as being in-charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;

9.2.3. For the partner-in-charge shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;

9.2.4. All partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(b) above as well as in the Letter of Bid and in the Form of Contract Agreement (in case of a successful bid); and

9.2.5. A copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation and corresponding duties & responsibilities of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments/modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.

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

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

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

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

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

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

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

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

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

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

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

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

11. **Letter of Bid and Schedules**

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

12. **Bid Prices**

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

bidding documents.

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

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

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

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

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

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

12.8. All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date twenty-eight (28) days prior to the deadline for submission of bids, shall be included in the rates and prices and the total bid price submitted by the bidder.

13. **Currencies of Bid and Payment**

13.1. The unit rates and the prices shall be quoted by the Bidder entirely Pakistani Rupees. A Bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer’s country (referred to as the “Foreign Currency Requirements”) shall indicate in Table III of Schedule-A to Bid the proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency

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

14. **Documents Comprising the Technical Proposal**

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

15. **Bid Validity Period**

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

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

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

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

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

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

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

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

16.2.2. A cashier’s or certified cheque; or

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

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

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

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

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

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

16.6.1. The expiry of the Bid Security;

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

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

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

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

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

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

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

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

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

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

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

17. **Withdrawal of Bids**

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

D. SUBMISSION OF BIDS

20. **Submission of Bids**

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

21. **Deadline for Submission of Bids**

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

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

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

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

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

E. OPENING AND EVALUATION OF BIDS

23. **Opening of Bids**

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

24. **Confidentiality**

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

25. **Clarification of Bids**

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

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

25.2.1. evaluation & qualification criteria;

25.2.2. required scope of work;

25.2.3. contract price;

25.2.4. all securities requirements;

25.2.5. tax requirements;

25.2.6. terms and conditions of bidding documents.

25.2.7. change in the ranking of the bidder

26. **Preliminary Examination of Bids**

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

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

26.1.2. has been properly signed;

26.1.3. is accompanied by the required securities; and

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

28. **Correction of Arithmetic Errors**

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

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

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

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

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

28.2. The amount stated in the Bid will, be rectified by the Procuring agency/Employer in accordance with the above procedure for the correction of errors and, with, the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount, its bid shall be rejected after forfeiture of Bid Security or execution of the Bid Securing Declaration, as the case may be, in accordance with ITB 39.3.

29. **Conversion to Single Currency**

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

30. **Evaluation of Bids**

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

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

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

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

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

30.4. The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.

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

30.6. If the bid, which results in the Evaluated Bid Price (Successful Bid), is seriously unbalanced or front loaded in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, taking into consideration the schedule of estimated Contract payments, the Employer may require that the amount of the performance security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.

Explanation:

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

31. **Domestic Preference**

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

time to time.

32. **Determination of Successful Bid**

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

33. **Qualification of Bidder**

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

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

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

34. **Sub-Contractors**

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

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

35. **Abnormally Low Financial Bid**

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

Guidance for Procuring agency/Employer:

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

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

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

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

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

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

F. AWARD OF CONTRACT

36. **Criteria of Award**

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

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

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

36.1.3. Successful negotiations have been concluded, if any.

37. **Negotiations**

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

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

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

39. **Notification of Award**

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

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

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

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

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

40. **Signing of Contract**

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

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

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

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

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

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

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

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

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

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

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

42. **Advance Payment**

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

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

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

43. **General Performance of the Bidders**

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

44. **Corrupt & Fraudulent Practices**

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

G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

45. Grievance Redressal

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

H. MECHANISM OF BLACKLISTING

46. Mechanism of Blacklisting

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

Bid Data Sheet

Bid Data Sheet (BDS)

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

A. Introduction

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

ITB Number1.1

Name of Procuring agency/Employer: **Quetta Airport (Pakistan Airports Authority (PAA))**

The subject of procurement is: **Operationalization of Dalbandin Airport (Rehabilitation of Airside Pavements, Security Fence, PTB and Allied Works)**

Period for completion of the works **24 Months**

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

Type of Procurement**:Local**

ITB Number2.1

Financial year for the operations of the Procuring agency/Employer: **2026-27**
Name of Project :

Name of financing institution:

Name and identification number of the Contract: **P202140**

ITB Number3.1

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

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

B. Bidding Documents

ITB Number6.4

The Bidders may seek clarifications through **EPADS v2.0**: **Last Clarification Date: Sunday, November 22, 2026**

C. Preparation of Bids

ITB Number8.1

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

ITB Number 5.1 & 9.1

The following documentsmust be includedto constitute the Bid

1. Attach filled, signed and stamped BoQ

ITB Number9.4 (b)

Other procurement specific documentation requirements are:

Signed / Stamped Bidding Document

ITB Number12.4

The Bid price will be/will not be subject to the price adjustment **Yes**
Price Adjustment Annexure is attached in the Annexure Section with the name of Adjustment Data.

ITB Number12.6

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

ITB Number13.1

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

Schedule of Adjustment Data for Local Currency (LC)

Index Code	Index Description	Source of Index	Weighting
1	Non-adjustable	---	0.30
2	Labour	PBS Statistical Bulletin	0.16

Index Code	Index Description	Source of Index	Weighting
3	Steel	PBS Statistical Bulletin	0.05
4	Cement	PBS Statistical Bulletin	0.11
5	Bitumen	PARCO / Attock Notification	0.05
6	Aggregate	PBS Statistical Bulletin	0.20
7	HSD	OGRA / PSO	0.13
	Total	PKR	1.00

ITB Number15.1

The Bid Validity period shall be **90 Days** days.

ITB Number16.1

The amount of Bid Security shall be ... *see section itemd and bid security*

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

ITB Number16.2

The Bid Security shall be in the form of:

D. Submission of Bids

ITB Number19.1

The deadline for Bid submission is:**Wednesday, November 25, 2026 02:00 PM**
Address for submission of Original Bid Security:**Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province).**

ITB Number21.1
The Bid opening shall take place at:**EPADS v2.0**
Day : ***Wednesday***
Date: ***November 25, 2026***
Time : ***02:30 PM***

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

ITB Number28.2 &28.5

Least Cost Based Selection (LCBS)

see Evaluation Criteria

ITB Number29.1

Domestic preference to apply.

Domestic preference:**Yes**

The Percentage of Domestic Preference is 90%

Preference to domestic or national suppliers or contractors shall be provided in accordance with policies of the Federal Government and/or in accordance with the regulations issued by the Authority.

If Yes, The percentage for the domestic preference alongwith calculation formula is provided in the evaluation and qualification criteria.

ITB Number32.2

Sub-contracting is allowed? : **Yes**

30% of the total value of the contract.

39.1 The Performance Security (or guarantee) shall be **0%**

39.2 The Performance Security (or guarantee) shall be in the form of:**Nil**

Eligibility Criteria

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

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

Evaluation Criteria

Least Cost Based Selection (LCBS)

Jobs/Lots

Lot Title : Rehabilitation of Dalbandin Project

Bid Security : 0 PKR

Job	Delivery Schedule	Quantity
Rehabilitation of Airside Pavements	**Address:** Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province). **Schedule:** 365 Days **Quantity:** 1/job	1/job
Access Road	**Address:** Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province). **Schedule:** 365 Days **Quantity:** 1/job	1/job
Ancillary Civil Infrastructure	**Address:** Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province). **Schedule:** 365 Days **Quantity:** 1/job	1/job
Renovation of PTB	**Address:** Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province). **Schedule:** 365 Days **Quantity:** 1/job	1/job
Public Health Engineering	**Address:** Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province). **Schedule:** 365 Days **Quantity:** 1/job	1/job

Job	Delivery Schedule	Quantity
Security Infrastructure	**Address:** Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province). **Schedule:** 365 Days **Quantity:** 1/job	1/job
External Electrical Infrastructure	**Address:** Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province). **Schedule:** 365 Days **Quantity:** 1/job	1/job
Building Electrification & Life Safety	**Address:** Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province). **Schedule:** 365 Days **Quantity:** 1/job	1/job
Mechanical Works	**Address:** Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province). **Schedule:** 365Days **Quantity:** 1/job	1/job

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Work Specifications and Market Rates

Lot Title: Rehabilitation of Dalbandin Project

Specifications / Requirements:

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	SH1	DEMOLITION OF PREMIX CARPET / BITUMINOUS PAVEMENTS, LOAD MATERIAL FOR DISPOSE OFF AND LEAD UPTO 5 KM OUTSIDE AIRPORT PREMISES	CUM	120999		
2	SH1	CUTTING OF ORDINARY / HARD SOIL OF ROADWAY / RUNWAY / HARD STANDING STRIPPING ETC AND DISPOSE OFF / COLLECT SPOIL WITHIN 5 KM COMPLETE	CUM	101		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3	SH1	COMPACTION OF NATURAL GROUND UP TO 95% MODIFIED AASHTO DENSITY ALL AS SPECIFIED	SQM	100750		
4	SH1	EXCAVATION AS IN ORDINARY / HARD SOIL UPTO 1.50 MTR DEPTH IN FOUNDATIONS OR TRENCHES, THROW EARTH CLEAR OF EDGES OF EXCAVATION INCL LOADING AND UNLOADING AND UP TO 10 KM LEAD	CUM	6971		
5	SH1	PROVIDING AND LAYING IMPROVED SUBGRADE USING 80% EXISTING EXCAVATED MATERIAL TO ACHIEVE 95% MODIFIED AASHTO DENSITY COMPLETE	CUM	27670		
6	SH1	PROVIDING AND LAYING IMPROVED SUBGRADE USING 20% GRANULAR MATERIAL TO ACHIEVE 95% MODIFIED AASHTO DENSITY COMPLETE	CUM	6917		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7	SH1	BOTTOMING / SUB BASE OF ANY THICKNESS AS SPECIFIED USING GRANULAR MATERIAL OF CBR 30% LAID AND COMPACTED TO 100% MODIFIED AASHTO DENSITY BY APPROPRIATE COMPACTION COMPLETE	CUM	34588		
8	SH1	PROVISION AND INSTALLING OF HDPE GEOGRID BIAXIAL IN PAVEMENT STRUCTURAL LAYERS AS PER OEM RECOMMENDATIONS AND DIRECTIONS OF ENGINEER IN CHARGE.	SQM	70000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9	SH1	PROVISION AND INSTALLING OF HDPE GEOCELLS (CELL DEPTH 150MM, CELL SIZE 440 MM, SHEET THICK 1.5 MM) IN PAVEMENT STRUCTURAL LAYERS AS PER OEM RECOMMENDATIONS AND DIRECTIONS OF ENGINEER IN CHARGE.	SQM	70000		
10	SH1	AGGREGATE BASE COURSE OF ANY THICKNESS AS SPECIFIED LAID AND COMPACTED TO 100% MODIFIED AASHTO DENSITY BY APPROPRIATE COMPACTION EQUIPMENT AND ROLLER	CUM	43189		
11	SH1	PRIME COAT ON BASE COURSE SURFACE COMPLETE	SQM	113400		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
12	SH1	PROVIDING AND LAYING (BATCHING-PLANT-MIXED) ASPHALT BASE COURSE OF ANY THICKNESS IN LAYERS AS SPECIFIED WITH ASPHALT CONCRETE IN 60/70 OR 80/100 GRADES USING APPROVED JMF COMPLETE (EXCEPT PRIME COAT)	TON	27784		
13	SH1	TACK COAT ON ASPHALTIC SURFACE COMPLETE	SQM	113400		
14	SH1	PROVIDING AND LAYING (BATCHING-PLANT-MIXED) ASPHALT WEARING COURSE OF ANY THICKNESS IN LAYERS AS SPECIFIED WITH AASPHALT CONCRETE IN 60/70 OR 80/100 GRADES USING APPROVED JMF COMPLETE (EXCEPT TACK COAT)	TON	13892		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
15	SH1	BLEND ADDITIVE(S) SBS/SBR/PEVA IN BITUMEN BINDER TO MAKE IT PMB PG 76-22 COMPATIBLE FOR USE IN ASPHALT CONCRETE AS SPECIFIED.	TON	137		
16	SH1	LABOUR AND NECESSARY MATERIAL FOR FORMING OF EXPANSION JOINT 13 MM WIDE AND LEAVING THE JOINT CLEAR FOR FILLING (LENGTH OF JOINT MULTIPLIED BY THICKNESS OF JOINT)	SQM	15		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
17	SH1	PROVIDING AND FILLING OF RIGID PAVEMENT JOINTS 3/4 INCH X 5/8 INCH (AVERAGE) WITH JET FUEL RESISTANT SEALANT (CRAFCO USA OR EQUIVALENT IMPORTED) CONFORMING TO ASTM D6690 INCL REMOVAL/CLEANING OF EXISTING SEALANT, CLEANING INTERFACES BY SAWING OR MECHANICAL ABRASION, BLOWING DRY WITH COMPRESSOR, DISPOSAL OF RUBBISH AND P/L BACKER ROD/RUBBER STRIP	METRE	2561		
18	SH1	FILLING OF JOINT WITH AEROLASTIC MATERIAL INCL FOAM ROPE (BACKER ROD), CUTTING WITH SAW	METRE	110		
19	SH1	P/L OF LEAN CONCRETE USING CRUSHED OR BROKEN STONE GRADED 1:4:8 ALL AS SPD	CUM	431		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
20	SH1	PROVIDING AND LAYING PCC 1:2:4 CONCRETE USING CRUSHED OR BROKEN STONE GRADED ALL AS SPD	CUM	1394		
21	SH1	PROVIDING AND LAYING PCC 1:2:4 AS IN FLOOR SLABS SURFACE FINISHED SMOOTH WITH NEAT CEMENT AND STEEL TROWEL USING CRUSHED OR BROKEN STONE FOR BASEMENT / GROUND FLOOR	CUM	183		
22	SH1	PROVIDING AND LAYING PQC FLEXURAL STRENGTH OF 600 PSI FOR RUNWAY TAXIWAY LINKS LEAD-INS AND TARMAC OF ANY THICKNESS USING CONCRETE MIX DESIGN LAID MANUALLY ALL AS SPECIFIED	CUM	67		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
23	SH1	PROVIDING AND LAYING RCC 4000 PSI CONCRETE USING CRUSHED OR BROKEN STONE AS IN WALLS ROOF SLAB LANDING PLINTH BEAMS AND BAND ETC INCL FORM WORK REINFORCEMENT MEASURED AND PAID SEPARATELY	CUM	1165		
24	SH1	SUPPLY AND FIX STEEL REINFORCEMENT USING DEFORMED BAR GRADE-60 INCL CUTTING BINDING AND PLACING	KG	8722		
25	SH1	SUPPLY AND FIX BARS ROUND SQUARE OR FLAT INCLUDING CUTTING BENDING BINDING AND PLACING REINFORCEMENT IN POSITION	KG	633		
26	SH1	PROVIDING AND LAYING RCC PIPE 230MM BORE LAID AND JOINTED WITH SPIGOT SOCKET OR COLLAR COMPLETE	METRE	2525		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
27	SH1	PROVIDING AND LAYING POLYETHYLENE PIPE (PE-100) 160MM DIA CLASS PN-10 / SDR-17 COMPLETE	METRE	1001		
28	SH1	PROVIDING AND LAYING UPVC 150MM BORE COMPLETE	METRE	480		
29	SH1	PROVIDING SAND CUSHION IN LAYER AS SPD UNDER CONCRETE ROAD, HARD STANDING AND RUNWAY ETC COMPLETE	CUM	2958		
30	SH1	PROVIDING AND LAYING BOND BREAKING MATERIALS USING 0.102 MM THICK POLYTHENE FILM OVER NORMAL THICKNESS OF CONCRETE FLOOR	SQM	335		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
31	SH1	BURNT BRICK WORK IN WALL OVER 115MM THICK WALL LAID AND JOINTED IN CM 1:3 STRAIGHT OR CURVE WITH INNER RADIUS LESS THAN 6 MTR UPTO 4.25 MTR DEPTH COMPLETE	CUM	777		
32	SH1	PLASTER 1:4 13MM THICK FINISHED AS SPD (BASEMENT, GF, 1ST AND 2ND FLOOR)	SQM	3397		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
33	SH1	PROVIDING AND APPLYING ONE COAT OF UNDILUTED WATER BASED ROAD / AIRFIELD MARKINGS PAINT (BERGER, STAR BRITE OR EQUIVALENT) WITH GLASS BEADS CONFORMING TO FEDERAL SPEC TT-B-1325C TYPE 1 GRADE A APPLIED AT 1 KG PER LITRE OF PAINT (FAA P-602) USING AIRLESS PNEUMATIC SPRAY MACHINE CAPABLE OF PAINTING UP TO 3 FEET WIDE STRIP WITH SYNCHRONIZED GLASS BEAD DISPENSING ATTACHMENT	SQM	10011		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
34	SH2	CLEARING AND GRUBBING THE SITE INCLUDING REMOVAL OF GRASS, SHRUBS, BRUSHWOOD, UNDERGROWTH, ROOTS AND SMALL TREES NOT EXCEEDING 225 MM GIRTH, AND DISPOSING OF CLEARED MATERIAL OFF-SITE, COMPLETE AS SPECIFIED.	SQM	7352		
35	SH2	COMPACTION OF NATURAL GROUND UP TO 95% MODIFIED AASHTO DENSITY, INCLUDING SCARIFYING, WATERING AND ROLLING, COMPLETE AS SPECIFIED.	SQM	7352		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
36	SH2	EXCAVATION IN ORDINARY SOIL UP TO 1.5 M DEPTH, IN FOUNDATIONS AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA.	CUM	2290		
37	SH2	MAKING EMBANKMENT WITH SPECIFIED/APPROVED SOIL OBTAINED FROM BORROW EXCAVATION, INCLUDING LOADING WITHIN 5 KM, COMPACTION IN 150 MM LAYERS UP TO 95% MODIFIED AASHTO DENSITY, AND DRESSING TO REQUIRED PROFILE AND SHAPE.	CUM	11028		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
38	SH2	GRANULAR FILLING UNDER FOOTING/FOUNDATION USING SPECIFIED/APPROVED GRANULAR MATERIAL, INCLUDING LOADING AND TRANSPORTATION WITHIN 5 KM, COMPACTION IN 150 MM LAYERS UP TO 95% MODIFIED AASHTO DENSITY, AND DRESSING TO REQUIRED PROFILE AND SHAPE.	CUM	1103		
39	SH2	PROVIDING AND LAYING AGGREGATE BASE COURSE OF ANY THICKNESS, LAID AND COMPACTED TO 100% MODIFIED AASHTO DENSITY USING APPROPRIATE COMPACTION EQUIPMENT AND ROLLER, COMPLETE AS SPECIFIED.	CUM	1103		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
40	SH2	PROVIDING AND APPLYING PRIME COAT ON PREPARED AGGREGATE BASE COURSE SURFACE USING APPROVED BITUMINOUS MATERIAL AT THE SPECIFIED RATE, COMPLETE AS SPECIFIED.	SQM	7352		
41	SH2	PROVIDING AND LAYING PLANT-MIXED ASPHALTIC WEARING COURSE OF ANY THICKNESS USING ASPHALT CEMENT GRADE 60/70 OR 80/100 AND APPROVED JOB MIX FORMULA (JMF), INCLUDING HAULING, PLACING AND COMPACTION, EXCLUDING TACK COAT.	TON	368		
42	SH2	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:4:8) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, FOR DRAIN WORKS, COMPLETE.	CUM	76		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
43	SH2	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN DIFFERENT STRUCTURAL ELEMENTS (FOUNDATION ETC.) INCLUDING FORMWORK, FOR DRAIN WORKS; REINFORCEMENT MEASURED AND PAID SEPARATELY.	CUM	762		
44	SH2	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:4:8) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, FOR CULVERT WORKS, COMPLETE.	CUM	5		
45	SH2	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN DIFFERENT STRUCTURAL ELEMENTS (FOUNDATION ETC.) INCLUDING FORMWORK, FOR CULVERT WORKS; REINFORCEMENT MEASURED AND PAID SEPARATELY.	CUM	14		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
46	SH2	SUPPLY AND FIXING RCC PIPES 600 MM BORE, LAID AND JOINTED WITH SPIGOT-SOCKET OR TONGUE-AND-GROOVE JOINT INCLUDING RUBBER RING, COMPLETE AS SPECIFIED.	MTR	4		
47	SH2	APPLYING THREE COATS OF APPROVED ROAD MARKING PAINT ON NEW OR OLD SURFACE USING MECHANICAL MEANS, COMPLETE AS SPECIFIED.	SQM	666		
48	SH2	PROVIDING AND LAYING ROAD MARKING WITH REFLECTIVE THERMOPLASTIC (TP) PAINT FOR LINES OF 12.50 CM WIDTH (YELLOW). RATE BUILT FROM SOR COMPONENTS: 15-75 (PRIMER/PREP), 15-76 (TP APPLICATION), 15-77 (GLASS BEADS).	SQM	822		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
49	SH2	PROVIDING AND LAYING ROAD MARKING WITH REFLECTIVE THERMOPLASTIC (TP) PAINT FOR LINES OF 12.50 CM WIDTH (WHITE). RATE BUILT FROM SOR COMPONENTS: 15-75 (PRIMER/PREP), 15-76 (TP APPLICATION), 15-77 (GLASS BEADS).	SQM	11605		
50	SH2	PROVIDING AND LAYING ROAD MARKING WITH REFLECTIVE THERMOPLASTIC (TP) PAINT FOR 4-METRE ARROWS. RATE BUILT FROM SOR COMPONENTS: 15-75 (PRIMER/PREP), 15-76 (TP APPLICATION), 15-77 (GLASS BEADS).	SQM	881		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
51	SH2	PROVIDING AND FIXING ROAD SIGN BOARDS (E.G., CAUTION SIGNS) WITH REFLECTIVE PAINT, HAVING SUPERFICIAL AREA OF 1.125 SQM, INCLUDING COST OF POST, FOUNDATION, FIXING AND ALL ACCESSORIES, AS APPROVED BY THE ENGINEER, COMPLETE AS SPECIFIED.	NOS	20		
52	SH3	EXCAVATION IN ORDINARY SOIL UP TO 1.5 M DEPTH, IN FOUNDATION AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA, COMPLETE AS SPECIFIED.	CUM	1774		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
53	SH3	EXCAVATION IN HARD SOIL UP TO 1.5 M DEPTH, IN FOUNDATION AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M, INCLUDING BACKFILLING, COMPLETE AS SPECIFIED.	CUM	612		
54	SH3	EXCAVATION OVER AREAS IN ORDINARY/HARD SOIL FROM 1.5 M TO 3 M DEPTH, IN FOUNDATION/EXCAVATIONS, THROWING EARTH CLEAR WITHIN 50 M, COMPLETE AS SPECIFIED.	CUM	157		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
55	SH3	EXCAVATION OVER AREAS IN ORDINARY/HARD SOIL UP TO 1.5 M DEPTH, IN FOUNDATION/EXCAVATIONS, THROWING EARTH CLEAR WITHIN 50 M, COMPLETE AS SPECIFIED.	CUM	1787		
56	SH3	BOTTOMING/SUB-BASE OF ANY THICKNESS USING GRANULAR SUB-BASE MATERIAL/SOIL AGGREGATES CBR 30%, LAID AND COMPACTED TO 100% MODIFIED AASHTO DENSITY, COMPLETE AS SPECIFIED.	CUM	910		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
57	SH3	EARTH FILLING IN ORDINARY OR HARD SOIL, IN FOUNDATION, PIPE TRENCHES, SHAFTS, WELLS, INDEPENDENT HOLES, UNDER FLOORS OR AROUND PLINTH ETC., 1.5 M BELOW OR ABOVE GROUND LEVEL, WITH SPOIL OBTAINED FROM EXCAVATION, INCLUDING WATERING AND COMPACTION IN 150 MM LAYERS, COMPLETE AS SPECIFIED.	CUM	894		
58	SH3	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:4:8) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, UNDER FOOTINGS/FOUNDATIONS, COMPLETE.	CUM	310		
59	SH3	PROVIDING AND LAYING SAND CUSHION UNDER FLOOR (100 MM THICK), COMPLETE AS SPECIFIED.	CUM	1655		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
60	SH3	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN DIFFERENT STRUCTURAL ELEMENTS (FOUNDATION ETC.) INCLUDING FORMWORK; REINFORCEMENT MEASURED AND PAID SEPARATELY, COMPLETE AS SPECIFIED.	CUM	483		
61	SH3	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN FOUNDATIONS ETC., INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	CUM	188		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
62	SH3	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN COLUMNS, BEAMS, STAIRS, POSTS, STRUTS, PIERS, LINTELS AND THE LIKE, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	CUM	306		
63	SH3	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN COLUMNS, BEAMS, STAIRS, POSTS, STRUTS, PIERS, LINTELS, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	CUM	105		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
64	SH3	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS ETC., INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	CUM	618		
65	SH3	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	CUM	430		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
66	SH3	PROVIDING AND LAYING PCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ALL NON-STRUCTURAL ELEMENTS, INCLUDING FORMWORK AND FAIR FACES TO EXPOSED SURFACES, COMPLETE AS SPECIFIED.	CUM	12		
67	SH3	PROVIDING AND LAYING PCC 1:2:4 IN FLOOR SLABS AS UNDERLAYER FOR TERRAZZO/TILES TOP FINISH, USING CRUSHED OR BROKEN STONE, COMPLETE AS SPECIFIED.	CUM	194		
68	SH3	PROVIDING AND LAYING PCC 1:3:6 IN FLOOR SLABS AS UNDERLAYER FOR TERRAZZO/TILES TOP FINISH, COMPLETE AS SPECIFIED.	CUM	95		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
69	SH3	PROVIDING AND LAYING PCC 1:6:12 UNDER FLOORS USING CRUSHED OR BROKEN STONES, COMPLETE AS SPECIFIED.	CUM	319		
70	SH3	PROVIDING AND LAYING PCC 1:4:8 UNDER FLOOR USING CRUSHED OR BROKEN STONES, COMPLETE AS SPECIFIED.	CUM	77		
71	SH3	PROVIDING AND LAYING 50 MM THICK PCC 1:2:4 USING 3 MM AGGREGATE, FINISHED SMOOTH WITH STEEL FLOAT, COVERED WITH TWO COATS OF HOT BITUMEN AT 0.75 KG PER SQM EACH, AND BLINDED WITH 0.012 CUM OF SAND PER SQM.	SQM	47		
72	SH3	ADDITIONAL LABOUR FOR HOISTING/LOWERING CONCRETE FOR EACH STOREY BEYOND 12 M ABOVE/BELOW GL.	CUM	222		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
73	SH3	PROVIDING, CUTTING, BENDING, PLACING AND BINDING HIGH TENSILE (GRADE-60) DEFORMED STEEL BAR REINFORCEMENT, COMPLETE.	KG	290478		
74	SH3	BURNT BRICK WORK IN WALL OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO 4.25 M DEPTH, COMPLETE AS SPECIFIED.	CUM	118		
75	SH3	BURNT BRICK WORK IN WALLS 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:4, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	CUM	78		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
76	SH3	BURNT BRICK WORK IN WALL OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	CUM	151		
77	SH3	BURNT BRICK WORK IN WALL OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO FIRST FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	CUM	4		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
78	SH3	BURNT BRICK WORK IN WALL 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:4, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO FIRST FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	CUM	312		
79	SH3	EXTRA TO BRICK FOR FORMING CAVITY, 57 MM WIDE, LAID AND JOINTED IN CEMENT MORTAR 1:3, ONE FACE MEASURED (CAVITY WALL), COMPLETE AS SPECIFIED.	SQM	224		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
80	SH3	SUPPLY AND FIXING STEEL CHOWKAT, PRESS-MOULDED 18 SWG, FOR 115 MM WALLS, SINGLE LEAF, INCLUDING HOLDFAST, TIES FOR LATERAL MOVEMENT, PCC 1:2:4 CAVITY FILLING, ONE COAT ANTI-CREOSOTE PAINT (INTERNAL) AND RED OXIDE PAINT (EXTERNAL), COMPLETE AS SPECIFIED.	MTR	1591		
81	SH3	SUPPLY AND FIXING STEEL CHOWKAT, PRESS-MOULDED 18 SWG, FOR 230 MM WALLS, SINGLE/DOUBLE LEAF, INCLUDING HOLDFAST, TIES FOR LATERAL MOVEMENT, PCC 1:2:4 CAVITY FILLING, ONE COAT ANTI-CREOSOTE PAINT (INTERNAL) AND RED OXIDE PAINT (EXTERNAL), COMPLETE AS SPECIFIED.	MTR	1075		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
82	SH3	SUPPLY AND FIXING WATERPROOF BUILDING/INSULATING PAPER WEIGHING 3.92 KG PER 10 SQM, FIXED ANY POSITION WITH 50 MM SIDE AND 150 MM END LAPS, COMPLETE AS SPECIFIED.	SQM	1238		
83	SH3	PROVIDING AND LAYING BOND-BREAKING SLIP MEMBRANE USING 0.102 MM THICK POLYETHYLENE FILM OVER NORMAL THICKNESS OF CONCRETE FLOOR, COMPLETE AS SPECIFIED.	SQM	18		
84	SH3	PROVIDING AND APPLYING TWO COATS OF HOT BITUMEN AT 0.75 KG PER SQM PER COAT, BLINDED WITH SAND AT 0.012 CUM PER SQM, COMPLETE AS SPECIFIED.	SQM	130		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
85	SH3	SUPPLY AND FIXING SYNTHETIC VINYL (PVC) FLEXIBLE MEMBRANE 0.50 MM THICK WITH 75-100 MM SIDE/END LAPS, SEAMED/WELDED THERMALLY/CHEMICALLY (SUNK PORTION), COMPLETE AS SPECIFIED.	SQM	137		
86	SH3	SUPPLY AND FIXING DOUBLE LAYER OF WATERPROOFING BUILDING/INSULATING PAPER 3.92 KG PER 10 SQM FIXED ANY POSITION WITH 50 MM SIDE AND 150 MM END LAPS AND NAILING, COMPLETE AS SPECIFIED.	SQM	7		
87	SH3	SUPPLY AND FIXING DOUBLE LAYER OF WATERPROOFING BUILDING/INSULATING PAPER WITHOUT NAILING, INCLUDING 13 MM THICK CEMENT PLASTER CM 1:4, COMPLETE AS SPECIFIED.	SQM	36		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
88	SH3	SUPPLY AND APPLYING ROOF INSULATION/WATERPROOFING USING DOUBLE LAYER OF BITUMEN FELT MEMBRANE (16-18 KG PER 10 SQM) WITH 50 MM SIDE AND 150 MM END LAPS, INCLUDING PRIMER AND STICKING COAT, COMPLETE AS SPECIFIED.	SQM	1408		
89	SH3	SUPPLY AND FIXING POLY EXTRUDED BOARD 50 MM THICK, DENSITY 32-35 KG/CUM, AS ROOF INSULATION WITH SHIP-LAP EDGES, ANY SIZE OF SHEET, ALL AS SPECIFIED.	SQM	188		
90	SH3	PROVIDING AND LAYING 50 MM THICK SCREED BED ON BOND-BREAKING MATERIAL, INCLUDING TWO COATS OF ELASTOMERIC CEMENTITIOUS WATERPROOFING COATING, COMPLETE AS SPECIFIED.	SQM	111		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
91	SH3	PROVIDING AND LAYING SINGLE LAYER OF POLYESTER-BASED ROOFING BITUMEN FELT, INCLUDING PRIMER AND STICKING COAT, FOLLOWED BY A DOUBLE-LAYER FELT MEMBRANE, COMPLETE AS SPECIFIED.	SQM	365		
92	SH3	PROVIDING AND LAYING 50 MM THICK SCREED BED, 20 MM THICK TERRAZZO FLOOR USING MARBLE CHIPS (1:2), INCLUDING CUTTING, RUBBING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	SQM	367		
93	SH3	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:3 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	SQM	3930		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
94	SH3	PROVIDING AND APPLYING 19 MM THICK CEMENT-SAND PLASTER (1:3 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	SQM	88		
95	SH3	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:4 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	SQM	5740		
96	SH3	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:6 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	SQM	6264		
97	SH3	APPLYING THREE COATS OF PLASTIC EMULSION PAINT ON WALLS AND CEILING, COMPLETE AS SPECIFIED.	SQM	3437		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
98	SH3	APPLYING THREE COATS OF WEATHER-SHIELD PAINT ON EXTERIOR SURFACES (NEW), COMPLETE AS SPECIFIED.	SQM	1351		
99	SH3	APPLYING THREE COATS OF WHITE WASH ON CEILING, COMPLETE AS SPECIFIED.	SQM	1945		
100	SH3	APPLYING THREE COATS OF DISTEMPER ON WALLS, COMPLETE AS SPECIFIED.	SQM	5844		
101	SH3	PROVIDING AND APPLYING TWO COATS OF WATERPROOFING COMPOUND USING BITUMEN 10/20 APPLIED HOT AT 4.90 KG PER 10 SQM, COMPLETE AS SPECIFIED.	SQM	129		
102	SH3	PROVIDING AND APPLYING 13 MM THICK CEMENT PLASTER 1:4 INCLUDING DECORATIVE PLASTER (EXTERNAL) FINISH, COMPLETE AS SPECIFIED.	SQM	479		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
103	SH3	PROVIDING AND APPLYING 13 MM THICK CEMENT PLASTER 1:4 WITH PUDLO OR OTHER SIMILAR APPROVED WATERPROOFING MATERIAL MIXED WITH CEMENT AT 3% BY WEIGHT, COMPLETE AS SPECIFIED.	SQM	26		
104	SH3	PROVIDING AND APPLYING 13 MM THICK CEMENT PLASTER 1:4, INCLUDING ONE COAT OF HOT BITUMEN AT 0.75 KG PER SQM AND BLINDING WITH SAND AT 0.012 CUM PER SQM (BELOW GROUND LEVEL), COMPLETE AS SPECIFIED.	SQM	208		
105	SH3	PROVIDING AND APPLYING 13 MM THICK CEMENT PLASTER 1:4, INCLUDING THREE COATS OF CEMENT SLURRY WASH ON NEW/OLD SURFACE, COMPLETE AS SPECIFIED.	SQM	19		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
106	SH3	FORMING V-GROOVES 13 MM WIDE AND 10 MM DEEP IN NEW PLASTER, COMPLETE AS SPECIFIED.	MTR	139		
107	SH3	FORMING V-GROOVES 25 MM WIDE AND 10 MM DEEP IN NEW PLASTER, COMPLETE AS SPECIFIED.	MTR	427		
108	SH3	FORMING V-GROOVES 25 MM WIDE AND 10 MM DEEP IN NEW PLASTER, INCLUDING SUPPLY AND FIXING ALUMINIUM COVER STRIP 60 MM WIDE X 2 MM THICK WITH ALL FITTINGS FOR ALL JOINTS, COMPLETE AS SPECIFIED.	MTR	149		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
109	SH3	PROVIDING AND LAYING PLINTH PROTECTION 3 FEET WIDE, 3 INCH THICK PCC 1:2:4, INCLUDING EDGE WALL, PCC BLOCK, AND MARBLE PATTY, USING SULPHATE-RESISTANT CEMENT (SRC), COMPLETE AS SPECIFIED.	SQM	1460		
110	SH3	PROVIDING AND LAYING 50 MM THICK SCREED BED ON BOND-BREAKING MATERIAL, COMPLETE AS SPECIFIED.	SQM	139		
111	SH3	PROVIDING AND LAYING STANDARD QUALITY TILES OF ANY MAKE EXCEEDING 1600 SQ CM ON WALLS AND FLOORS, INCLUDING SETTING, JOINTING AND BONDING, COMPLETE AS SPECIFIED.	SQM	243		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
112	SH3	PROVIDING AND LAYING STANDARD QUALITY MARBLE TILES (VARIOUS COLOURS) OF ANY SIZE, 20 MM THICK, INCLUDING SETTING, JOINTING, BONDING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	SQM	233		
113	SH3	PROVIDING AND LAYING STANDARD QUALITY MARBLE TILES (VARIOUS COLOURS) OF ANY SIZE, 13 MM THICK, INCLUDING SETTING, JOINTING, BONDING AND CHEMICAL POLISHING (SKIRTING), COMPLETE AS SPECIFIED.	SQM	41		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
114	SH3	PROVIDING AND LAYING 13 MM THICK TERRAZZO IN DADO/SKIRTING USING MARBLE CHIPS (1:2), INCLUDING 10 MM CEMENT PLASTER 1:3, CUTTING, RUBBING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	SQM	460		
115	SH3	PROVIDING AND LAYING 20 MM THICK TERRAZZO FLOOR USING MARBLE CHIPS (1:2), INCLUDING CUTTING, RUBBING, CLEANING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	SQM	2811		
116	SH3	PROVIDING AND LAYING 13 MM THICK STONOLITHIC 150 MM DADO/SKIRTING, INCLUDING 10 MM CEMENT PLASTER CM 1:4 AND TUCKING IN TOP EDGE, COMPLETE AS SPECIFIED.	SQM	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
117	SH3	PROVIDING AND LAYING 20 MM THICK STONOLITHIC LAYER SPREAD OVER ORDINARY CONCRETE FLOORS, INCLUDING MARBLE PATTY AND RUBBING, COMPLETE AS SPECIFIED.	SQM	213		
118	SH3	PROVIDING AND LAYING 19 MM THICK TERRAZZO FLOOR, MARBLE CHIPS 1:2 MIXED WITH ORDINARY CEMENT, EXCLUDING CUTTING, RUBBING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	SQM	518		
119	SH3	SUPPLY AND FIXING 8-10 MM THICK AND 40 MM WIDE MARBLE PATTY AS DIVIDING STRIPS IN FLOORS, COMPLETE AS SPECIFIED.	MTR	3284		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
120	SH3	SUPPLY AND FIXING 25 MM THICK MARBLE SLAB AROUND VANITY BOWL WITH BRACKETS, INCLUDING CUTTING, RUBBING, POLISHING AND WATERTIGHT JOINTS, COMPLETE AS SPECIFIED.	SQM	15		
121	SH3	SUPPLY AND FIXING GYPSUM CEILING TILES 600 MM X 600 MM X 7.5 MM THICK, INCLUDING ALUMINIUM TEE/ANGLE FRAMING, HANGER CLIPS, JOINTING CLIPS AND GI WIRE, COMPLETE AS SPECIFIED.	SQM	69		
122	SH3	SUPPLY AND FIXING 13 MM THICK SOFT BOARD SHEET IN CAVITIES, COMPLETE AS SPECIFIED.	SQM	7		
123	SH3	APPLYING PRIMER COAT ON NEW WOOD WORK SUCH AS TIMBER WORK IN CEILING AND TIMBER BOARDING, COMPLETE AS SPECIFIED.	SQM	33		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
124	SH3	SUPPLY AND FIXING 1ST CLASS SOFT WOOD (DEODAR) FRAMED AND PANELLED DOORS, PANELS FILLED WITH MDF 16 MM SHEET (EXCEPT CHOWKATS), INCLUDING HOLDFAST, MONGERY AND THREE COATS SYNTHETIC ENAMEL PAINT, 38 MM THICK, COMPLETE AS SPECIFIED.	SQM	206		
125	SH3	SUPPLY AND FIXING 1ST CLASS SOFT WOOD (DEODAR) GLAZED DOORS WITH MOULDED/CHAMFERED BARS, PANELS FILLED WITH GLASS, HOLDFASTS, HINGES/PIVOTS, MONGERY AND THREE COATS SYNTHETIC ENAMEL PAINT (EXCEPT CHOWKATS), 38 MM THICK, COMPLETE AS SPECIFIED.	SQM	47		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
126	SH3	SUPPLY AND FIXING 38 MM FIRST CLASS SOFT WOOD (DEODAR) GLAZED DOOR, 9X9 MESH 24 GAUGE, EXCLUDING CHOWKATS, HOLDFASTS, HINGES/PIVOTS, MONGERY, WITH THREE COATS SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	SQM	6		
127	SH3	SUPPLY AND FIXING 38 MM THICK FIRST CLASS SOFT WOOD HOLLOW FLUSH DOOR, INCLUDING 3 MM THICK TEAK PLY BOTH SIDES AND BRASS CP MONGERY, EXCEPT CHOWKAT, KICK PLATES AND BOW HANDLES, COMPLETE AS SPECIFIED.	SQM	43		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
128	SH3	SUPPLY AND FIXING 38 MM THICK 1ST CLASS SOFT WOOD (DEODAR) FRAMED AND PANELLED DOORS, PANELS FILLED WITH MDF 16 MM SHEET, INCLUDING 2X2 ARCHITRAVE WITH ALL FITTINGS, CHOWKAT AND THREE COATS SYNTHETIC ENAMEL PAINT (LOCKERS), COMPLETE AS SPECIFIED.	SQM	77		
129	SH3	SUPPLY AND FIXING 1ST CLASS SOFT WOOD (DEODAR) GAUZED DOORS, 9X9 MESH 24 GAUGE, 38 MM THICK, WITHOUT CHOWKATS, INCLUDING THREE COATS SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	SQM	22		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
130	SH3	SUPPLY AND FIXING 38 MM THICK 1ST CLASS SOFT WOOD GAUZE DOORS, GATES ETC., EXCEPT CHOWKATS, INCLUDING CP IRON MONGERY AND THREE COATS SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	SQM	3		
131	SH3	SUPPLY AND FIXING TUBULAR PARTICLE BOARD ENGINEERED DOOR 38 MM THICK, INCLUDING MONGERY, DOLLY FRAME CHOWKATS 2X2 ALL AROUND, AND TWO COATS SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	SQM	60		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
132	SH3	SUPPLY AND FIXING BOX-PIPE TYPE OPENABLE AND FIXED SIDE-HUNG WINDOW OR CSW USING 16 GAUGE FRAME 50X25 MM, PANEL Z 38X31X38 MM, 10X10 MM SQUARE GOLA, NOT EXCEEDING 1.48 SQM EACH, WITH FITTINGS/MONGERY, HOLDFAST, TWO COATS SYNTHETIC ENAMEL PLUS PRIMER, INCLUDING 5 MM PLAIN SHEET GLASS, COMPLETE AS SPECIFIED.	SQM	254		
133	SH3	SUPPLY AND FIXING UPVC SLIDING WINDOW, 37 MM THICK SHUTTER WITH FRAME 80X50 MM, EXCEEDING 2.23 SQM EACH, WHITE, WITH FITTINGS, MONGERY, FLY-PROOF NETTING, INCLUDING 5 MM TINTED SHEET GLASS, COMPLETE AS SPECIFIED.	SQM	175		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
134	SH3	SUPPLY AND FIXING UPVC SLIDING WINDOW, DOUBLE GLAZED 5 MM TINTED GLASS, 37 MM THICK SHUTTER WITH FRAME 80X50 MM, EXCEEDING 2.23 SQM EACH, COMPLETE AS SPECIFIED.	SQM	29		
135	SH3	SUPPLY AND FIXING UPVC OPENABLE WINDOW, 60 MM THICK SHUTTER WITH FRAME, DOUBLE GLAZING 5 MM TINTED GLASS, EXCEEDING 2.23 SQM EACH, COMPLETE AS SPECIFIED.	SQM	6		
136	SH3	SUPPLY AND FIXING 1.6 MM ALUMINIUM SLIDING WINDOW, DELUXE QUALITY, WOOD-LOOK COLOUR EXTRUDED SECTION, INCLUDING 5 MM THICK GLASS, COMPLETE AS SPECIFIED.	SQM	45		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
137	SH3	SUPPLY AND FIXING BOX TYPE STEEL SLIDING/FIXED WINDOW OR CSW, 16 GAUGE FRAME 75X30 MM, PANEL 25X50 MM GOLA, INCLUDING FITTINGS, MONGERY, HOLDFAST, SYNTHETIC ENAMEL PAINT, PRIMER, GLASS PANES, GRILL AND WIRE GAUZE, COMPLETE AS SPECIFIED.	SQM	26		
138	SH3	SUPPLY AND FIXING ALUMINIUM TINNED WIRE GAUZE, 16X16 MESH, 26 GAUGE, FIXED WITH FLAT IRON 13X3 MM TO STEEL WINDOW FRAMES WITH SCREWS 75 MM OLC, COMPLETE AS SPECIFIED.	SQM	134		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
139	SH3	SUPPLY AND FIXING ALUMINIUM FLY/INSECT SCREENING WITH MESH (PREMIUM MODEL), ANODIZED EXTRUDED SECTION, INCLUDING FIXING ON CONCRETE/WOOD/STEEL FRAMES, COMPLETE AS SPECIFIED.	SQM	25		
140	SH3	SUPPLY AND FIXING UPVC DOOR, 60 MM THICK SHUTTER, GROOVE PANEL 20 MM THICK, FILLED AS PER FIG 07-2 SKETCH 7-2.4 INSTEAD OF GLASS, COMPLETE, EXCEEDING 1.9 SQM EACH, WHITE, WITH FITTINGS, MONGERY AND FLY-PROOF NETTING, COMPLETE AS SPECIFIED.	SQM	170		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
141	SH3	SUPPLY AND FIXING UPVC OPENABLE DOOR, 60 MM THICK SHUTTER WITH FRAME, EXCEEDING 2.23 SQM EACH, WHITE, WITH FITTINGS, MONGERY, AND PLASTIC WIRE GAUZE MOSQUITO PROOF 18X18 MESH 28 GAUGE (FOR GAUZE DOOR), COMPLETE AS SPECIFIED.	SQM	18		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
142	SH3	SUPPLY AND FIXING GUARD BARS, GRILLS, RAILINGS, LADDERS, BRACKETS, HOOKS, HOLDFASTS AND FRAMES ETC., CUT TO DEAD LENGTH, REDUCED TO SIZE/SHAPE, FIGURE ETC. INCLUDING PUNCHING / DRILLING HOLES IF NECESSARY AND FIXING, ASSEMBLING BY WELDING OR BOLTS/NUTS/RIVETS/WASHERS ETC. AND ERECTION / FIXING IN POSITION INCLUDING MAKING GOOD DISTURBED SURFACES, COMPLETE AS SPECIFIED.	SQM	35260		
143	SH3	SUPPLY AND FIXING CP LOCK OR LATCH, 150 MM DELUXE, TWO BOLTS, TWO LEVERS, COMPLETE.	EACH	10		
144	SH3	SUPPLY AND FIXING RIM LOCK/LATCH CP BEST QUALITY, TWO KEYS, TWO LEVERS, COMPLETE.	EACH	19		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
145	SH3	SUPPLY AND FIXING DOOR CLOSER (DELUXE), ANODIZED BRONZE, COMPLETE.	NO	14		
146	SH3	SUPPLY AND FIXING ALUMINIUM DOOR CLOSER (PREMIUM), ANODIZED BRONZE, COMPLETE.	EACH	10		
147	SH3	SUPPLY AND FIXING UPVC DOOR LOCK, COMPLETE.	NO	19		
148	SH3	SUPPLY AND FIXING UPVC DOOR HANDLE, COMPLETE.	NO	47		
149	SH3	SUPPLY AND FIXING 300 MM CP SLIDING/LOCKING BOLTS WITH STAPLE, COMPLETE.	EACH	111		
150	SH3	SUPPLY AND FIXING 150 MM HELICAL STEEL SPRING FOR DOORS, CP, COMPLETE.	EACH	127		
151	SH3	SUPPLY AND FIXING BRASS PEGS 125 MM OR OVER, COMPLETE.	EACH	15		

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
152	SH3	SUPPLY AND FIXING STAINLESS STEEL KICK PLATE (16-18G), COMPLETE.	SQM	1		
153	SH3	SUPPLY AND FIXING FILLETS (UP TO 12.90 SQ CM) 1ST CLASS SOFT WOOD, WROUGHT AND SCREWED, COMPLETE.	MTR	101		
154	SH3	SUPPLY AND FIXING 5 MM TINTED GLASS TO TIMBER/STEEL SASHES WITH BEADS OR RUBBER LINING, COMPLETE.	SQM	48		
155	SH3	SUPPLY AND FIXING GENERAL STEEL WORK (HOLDFASTS, FLAT IRON, WALL TIES) CUT TO LENGTH, DRILLED AND ERECTED, COMPLETE.	KG	291		
156	SH3	SUPPLY AND FIXING STAINLESS STEEL GRADE 304 HAND RAILING (3/4 INCH TO 2 INCH DIA, 16-18G PIPE), COMPLETE.	MTR	108		

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
157	SH3	SUPPLY AND FIXING 2 INCH X 2 INCH MS HOLLOW PIPE (16G), INCL WELDING AND PAINTING, COMPLETE.	MTR	48		
158	SH3	SUPPLY AND FIXING XPM (EXPANDED METAL) BRC WELD-MESH, INCL BINDING WIRE, COMPLETE.	SQM	91		
159	SH3	SUPPLY AND FIXING UPVC DUCT COVERS USING UPVC FILLETS 45 MM X 20 MM, COMPLETE.	SQM	6		
160	SH3	APPLYING TWO COATS WEATHER-RESISTANT PAINT ON EXTERIOR WALL (OLD), COMPLETE.	SQM	857		
161	SH3	APPLYING TWO COATS SYNTHETIC ENAMEL PAINT, COMPLETE.	SQM	53		
162	SH3	SUPPLY AND FIXING 5 MM SILVERED GLASS MIRROR, GROUND EDGES, COMPLETE.	SQM	41		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
163	SH3	SUPPLY AND FIXING PLASTIC SHELF WITH PLUGS AND SCREWS, COMPLETE.	EACH	31		
164	SH3	SUPPLY AND FIXING CP TOWEL RAIL (SINGLE ROD), COMPLETE.	EACH	53		
165	SH3	SUPPLY AND FIXING SOAP/SPONGE TRAY WITH PLUGS AND SCREWS, COMPLETE.	EACH	43		
166	SH3	SUPPLY AND FIXING TOILET PAPER HOLDER, PAK MADE, COMPLETE.	EACH	1		
167	SH3	SUPPLY AND FIXING 6-PIECE BATH SET (PLASTIC), COMPLETE.	EACH	2		
168	SH3	SUPPLY AND FIXING 7-PIECE BATH SET (DELUXE, CP/YC), COMPLETE.	EACH	12		
169	SH3	SUPPLY AND FIXING VANITY BOWL (GLAZED), INCL BOTTLE TRAP, WASTE COUPLING, CP MIXER, COMPLETE.	EACH	44		

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
170	SH3	SUPPLY AND FIXING WHB (660X560 MM), INCL WASTE, COUPLING, PLUG, CP MIXER, COMPLETE.	EACH	15		
171	SH3	SUPPLY AND FIXING WHB WITH PEDESTAL (660X560 MM), INCL WASTE, CHAIN, PLUG, COMPLETE.	EACH	2		
172	SH3	SUPPLY AND FIXING WC (EUROPEAN COUPLED), DELUXE, COMPLETE.	EACH	16		
173	SH3	SUPPLY AND FIXING WC (ASIATIC, >550 MM) WITH FLUSHING SYSTEM, COMPLETE.	EACH	55		
174	SH3	SUPPLY AND FIXING URINAL BASIN (STALL PATTERN), INCL FLUSHING PIPE, COMPLETE.	EACH	1		
175	SH3	SUPPLY AND FIXING CP SHOWER ROSE (FIXED/ADJUSTABLE), COMPLETE.	EACH	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
176	SH3	SUPPLY AND FIXING TOILET SHOWER, 100 MM DIA, COMPLETE.	EACH	4		
177	SH3	SUPPLY AND FIXING SINK MIXER, STANDARD, COMPLETE.	EACH	4		
178	SH3	SUPPLY AND FIXING STAINLESS STEEL SINK SCULLERY (SINGLE/DOUBLE BOWL), INCL CP MIXER, COMPLETE.	EACH	3		
179	SH3	SUPPLY AND FIXING KITCHEN FLOOR/SINK CABINET (600X862 MM), INCL MONGERY, MARBLE SLAB, COMPLETE.	SQM	37		
180	SH3	SUPPLY AND FIXING KITCHEN WALL CABINET (381X610 MM), INCL CP MONGERY, COMPLETE.	MTR	33		
181	SH3	SUPPLY AND FIXING KITCHEN EXHAUST HOOD (TEAK VENEER + PGI SHEET), COMPLETE.	MTR	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
182	SH3	SUPPLY AND FIXING WARDROBE (BUILT-IN CABINET), INCL FRAME, SHUTTERS, MONGERY, COMPLETE.	SQM	86		
183	SH3	SUPPLY AND FIXING 50 MM PRECAST RCC JALI, INCL SETTING AND JOINTING, COMPLETE.	SQM	5		
184	SH3	CONSTRUCTION OF KHURRA (TOP ROOF OR GROUND), INCL PCC BASE AND BRICKWORK, COMPLETE.	NO	7		
185	SH3	CONSTRUCTION OF CHIMNEY STACK, INCL BRICKWORK, PLASTER, GI FLASHING, COMPLETE.	EACH	6		
186	SH3	PROVIDING EXPANSION JOINT (13 MM WIDE) WITH BITUMEN FILLER, COMPLETE.	JOB	1		
187	SH3	CONSTRUCTION OF GREASE TRAP (NOT EXCEEDING 600 MM DEEP), COMPLETE.	EACH	11		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
188	SH3	PROVISION OF HEATER RECESS, INCL BRICKWORK, PLASTER, PCC, COMPLETE.	EACH	6		
189	SH3	SUPPLY AND FIXING CHULLAH HOOD, INCL MS FRAME, GI SHEET, PLASTER, COMPLETE.	EACH	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
190	SH3	SUPPLY AND FIXING OF PROPRIETARY CLAY TANDOOR COMPLETE, INCLUDING ALL LABOR, MATERIALS, PLANT, SCAFFOLDING, AND TESTING, COMPRISING SUPPLY AND INSTALLATION OF THE PROPRIETARY CLAY TANDOOR UNIT WITH ITS INSULATED CLAY BODY AND LINING, MILD STEEL OR CAST IRON GRILL AND FRAME, ASH COLLECTION TRAY, CHIMNEY/FLUE CONNECTION, AND ALL NECESSARY ACCESSORIES, COMPLETE WITH FIXING IN POSITION, SEALING, AND FINISHING TO MAKE THE INSTALLATION FULLY FUNCTIONAL, STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, THE APPROVED DRAWING, AND ALL APPLICABLE LOCAL CODES AND STANDARDS, WITH THE CONTRACTOR RESPONSIBLE FOR ENSURING PROPER ALIGNMENT, LEVELING, AND SAFE TERMINATION OF THE	EACH	1		

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
191	SH3	SEWERAGE HANG ARRANGEMENT, COMPLETE WITH U-TRAPEZE HANGER, EPOXY FILLING, CEMENTITIOUS GROUT, CORE CUT, COMPLETE.	JOB	1		
192	SH3	EXCAVATE, DISPOSE SPOIL, SUPPLY SURFACE GULLIES (230X230X100 MM) WITH 100 MM PCC SURROUND AND CI GRATING, COMPLETE.	EACH	62		
193	SH3	CONSTRUCTION OF MANHOLES, COMPLETE, NOT EXCEEDING 600 MM DEEP, BRICK WALLS, EXCEPT COVER, COMPLETE.	CUM	78		
194	SH3	CONSTRUCTION OF MANHOLES, COMPLETE, 600-1800 MM DEEP, WITH IRON STEPS, BRICK WALLS, EXCEPT COVER, COMPLETE.	CUM	12		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
195	SH3	PROVIDING AND LAYING PRECAST RCC MANHOLE COVER WITH ANGLE IRON FRAME, COMPLETE.	EACH	192		
196	SH3	SUPPLY AND FIXING RCC PIPES 150 MM BORE, LAID AND JOINTED, COMPLETE.	MTR	234		
197	SH3	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 50 MM DIA, WITH SOLVENT CEMENT JOINT, COMPLETE.	MTR	155		
198	SH3	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 75 MM DIA, WITH SOLVENT CEMENT JOINT, COMPLETE.	MTR	478		
199	SH3	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 110 MM DIA, WITH SOLVENT CEMENT JOINT, COMPLETE.	MTR	530		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
200	SH3	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 160 MM BORE, WITH SOLVENT CEMENT JOINT, COMPLETE.	MTR	293		
201	SH3	SUPPLY AND FIXING UPVC ELBOW/BEND 90 DEG 75 MM DIA, COMPLETE.	EACH	71		
202	SH3	SUPPLY AND FIXING UPVC ELBOW/BEND 90 DEG 110 MM DIA, COMPLETE.	EACH	198		
203	SH3	SUPPLY AND FIXING 75 MM DIA UPVC ELBOW/BENDS 90 DEG, COMPLETE.	EACH	2		
204	SH3	SUPPLY AND FIXING 110 MM DIA UPVC ELBOW/BENDS 90 DEG, COMPLETE.	EACH	2		
205	SH3	SUPPLY AND FIXING ECCENTRIC REDUCER 50 MM X 110 MM DIA, COMPLETE.	EACH	69		
206	SH3	SUPPLY AND FIXING UPVC EQUAL TEE 110 MM DIA, COMPLETE.	EACH	82		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
207	SH3	SUPPLY AND FIXING UPVC ACCESS/DOOR TEE 110 MM DIA, COMPLETE.	EACH	13		
208	SH3	SUPPLY AND FIXING UPVC ACCESS/DOOR TEE 75 MM DIA, COMPLETE.	EACH	4		
209	SH3	SUPPLY AND FIXING UPVC REDUCER Y-TEE 75 MM X 110 MM DIA, COMPLETE.	EACH	5		
210	SH3	SUPPLY AND FIXING UPVC VENT COWL 50 MM DIA, COMPLETE.	EACH	61		
211	SH3	SUPPLY AND FIXING 100 MM DIA FLOOR TRAP WITH GRATING, COMPLETE.	EACH	110		
212	SH3	SUPPLY AND FIXING 150 MM DIA (MEDIUM) GI WATER PIPE WITH FITTINGS, COMPLETE.	MTR	410		
213	SH3	SUPPLY AND FIXING 200 MM DIA (4.8 MM THICK) GI WATER PIPE WITH FITTINGS, COMPLETE.	MTR	57		

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
214	SH3	SUPPLY AND FIXING 150 MM DIA SLUICE VALVE (BSS-3464), COMPLETE.	EACH	2		
215	SH3	SUPPLY AND FIXING 150 MM DIA MS/GI FLANGES, COMPLETE.	EACH	4		
216	SH3	SUPPLY AND INSTALLATION OF WATER GAUGE WITH FLOAT AND ACCESSORIES, COMPLETE.	EACH	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
217	SH3	DESIGN, SUPPLY, FABRICATION, AND CONSTRUCTION OF A COMPLETE REINFORCED CEMENT CONCRETE (RCC) OVERHEAD WATER TANK ON BUILDING ROOF, INCLUDING ALL LABOR, MATERIALS, PLANT, SCAFFOLDING, AND TESTING, COMPRISING SURFACE PREPARATION OF THE EXISTING ROOF SLAB, RCC PEDESTALS AND COLUMNS WITH BRACING, RCC TANK BODY COMPRISING WALLS AND BED SLAB, RCC ROOF SLAB WITH MANHOLE COVER, COMPLETE MS ACCESS LADDER WITH ANCHOR CONNECTIONS, ALL INTERNAL PLUMBING (INLET, OUTLET, OVERFLOW, WASHOUT PIPES WITH VALVES, AND WATER LEVEL INDICATOR), COMPLETE MS RAILING, AND LIGHTNING ARRESTER WITH GROUNDING, STRICTLY ADHERING TO GRADE-60 DEFORMED STEEL, SPECIFIED CONCRETE MIXES, AND LOCAL SEISMIC AND WIND PARAMETERS, WITH	EACH	15		

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
218	SH3	ELECTRIC WELDING WORKS, COMPLETE AS PER SPECIFICATION.	MTR	60		
219	SH4	TAKING UP OR DOWN TILES/MARBLE/GRANITE WORK OF ANY TYPE LAID IN FLOORS/WALLS ETC., INCLUDING STACKING SERVICEABLE MATERIAL AND DISPOSING OF UN-SERVICEABLE MATERIAL, COMPLETE AS SPECIFIED.	SQM	112		
220	SH4	DISMANTLING SINGLE TILING OF BRICK OR PCC IN ROOF OR FLOOR, LAID IN CEMENT MORTAR, INCLUDING HALF BRICKS OR BLOCKS ON EDGE, IN ANY POSITION, INCLUDING DISPOSAL OF DEBRIS, COMPLETE AS SPECIFIED.	SQM	139		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
221	SH4	DEMOLITION OF PLAIN CEMENT CONCRETE OF ANY THICKNESS, INCLUDING BREAKING, STACKING AND DISPOSAL OF DEBRIS, COMPLETE AS SPECIFIED.	CUM	27		
222	SH4	TAKING DOWN DOOR OR GATE LEAVES ONLY (SINGLE OR FOLDING) OF ANY PATTERN OR THICKNESS NOT EXCEEDING 2.60 M EACH, INCLUDING REMOVAL OF FITTINGS AND STACKING SERVICEABLE MATERIAL, COMPLETE AS SPECIFIED.	EACH	18		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
223	SH4	REMOVING WHITE/COLOUR WASH, DISTEMPER, PLASTIC EMULSION PAINT AND WEATHER RESISTANT PAINT FROM PLASTERED/UN-PLASTERED SURFACES BY SCRAPING, SANDING OR CHEMICAL MEANS, INCLUDING CLEANING THE SURFACE, COMPLETE AS SPECIFIED.	SQM	934		
224	SH4	EXCAVATION IN ORDINARY SOIL UP TO 1.5 M DEPTH, IN FOUNDATIONS AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA.	CUM	15		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
225	SH4	SUPPLY AND FIXING RCC PIPES 230 MM BORE, LAID AND JOINTED WITH SPIGOT-SOCKET OR COLLARS, INCLUDING RUBBER RING, COMPLETE AS SPECIFIED.	MTR	64		
226	SH4	CONSTRUCTION OF BRICK MASONRY MANHOLE, RECTANGULAR OR CIRCULAR, EXCEEDING 600 MM DEEP BUT NOT EXCEEDING 1800 MM DEEP, WITH IRON STEPS AT 380 MM CENTRES, 230 MM THICK BRICK WALLS, EXCLUDING COVER, COMPLETE AS SPECIFIED.	CUM	17		
227	SH4	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 110 MM DIAMETER, COMPLETE WITH Z-JOINT AND RUBBER RING, COMPLETE AS SPECIFIED.	MTR	46		

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
228	SH4	SUPPLY AND FIXING STEEL CHOWKAT, PRESS-MOULDED 18 SWG, FOR 115 MM WALLS, SINGLE LEAF, INCLUDING HOLDFAST, TIES FOR LATERAL MOVEMENT, PCC 1:2:4 CAVITY FILLING, ONE COAT ANTI-CREOSOTE PAINT (INTERNAL) AND RED OXIDE PAINT (EXTERNAL), COMPLETE AS SPECIFIED.	MTR	26		
229	SH4	PROVIDING AND APPLYING 19 MM THICK CEMENT-SAND PLASTER (1:4 MIX) ON INTERNAL WALL SURFACES (BASEMENT, GROUND, FIRST AND SECOND FLOORS), FINISHED SMOOTH, COMPLETE AS SPECIFIED.	SQM	139		
230	SH4	PROVIDING AND LAYING 50 MM THICK SCREED BED ON BOND-BREAKING MATERIAL, COMPLETE AS SPECIFIED.	SQM	139		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
231	SH4	PROVIDING AND LAYING STANDARD QUALITY TILES OF ANY MAKE NOT EXCEEDING 1600 SQ CM (16 INCH X 16 INCH), INCLUDING SETTING, JOINTING AND BONDING, COMPLETE AS SPECIFIED.	SQM	185		
232	SH4	SUPPLY AND FIXING GYPSUM CEILING TILES 600 MM X 600 MM X 7.5 MM THICK, INCLUDING ALUMINIUM TEE/ANGLE FRAMING, HANGER CLIPS, JOINTING CLIPS AND GI WIRE, COMPLETE AS SPECIFIED.	SQM	142		
233	SH4	APPLYING PRIMER COAT ON NEW WOOD WORK SUCH AS TIMBER WORK IN CEILING AND TIMBER BOARDING, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	SQM	33		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
234	SH4	SUPPLY AND FIXING 38 MM THICK 1ST CLASS SOFT WOOD (DEODAR) FRAMED AND PANELLED DOORS, INCLUDING CHOWKATS, HOLDFASTS, MONGERY AND TWO COATS OF SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	SQM	10		
235	SH4	RE-SECURING WITHOUT TAKING DOWN DOOR CHOWKATS EXCEEDING 2.60 M EACH, INCLUDING ARCHITRAVES IF ANY, HARD/SOFT WOOD, INCLUDING ADJUSTMENT AND PLUGGING, COMPLETE AS SPECIFIED.	EACH	18		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
236	SH4	SUPPLY AND FIXING ALUMINIUM SWING DOOR, SINGLE SHUTTER, DELUXE QUALITY, ANODIZED ALUMINIUM EXTRUDED SECTION, ANY SIZE/COLOUR/TEXTURE, FIXED ON CONCRETE/WOOD/STEEL FRAMES, COMPLETE EXCEPT GLASS, LOCK AND HANDLE.	SQM	24		
237	SH4	SUPPLY AND FIXING ALUMINIUM SLIDING WINDOW, PREMIUM QUALITY, ANODIZED ALUMINIUM EXTRUDED SECTION, ANY SIZE/COLOUR/TEXTURE, FIXED ON CONCRETE/WOOD/STEEL FRAMES, WITH ALL NECESSARY FITTINGS EXCEPT GLASS.	SQM	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
238	SH4	SUPPLY AND FIXING 5 MM THICK TINTED GLASS, FIXED TO TIMBER OR STEEL SASHES WITH HARD/SOFTWOOD BEADS AND SCREWS OR RUBBER LINING, COMPLETE AS SPECIFIED.	SQM	48		
239	SH4	SUPPLY AND FIXING CP LOCK OR LATCH, 150 MM DELUXE QUALITY, WITH TWO BOLTS AND TWO LEVERS, IN ANY PATTERN/SHAPE, COMPLETE AS SPECIFIED.	EACH	10		
240	SH4	SUPPLY AND FIXING ALUMINIUM DOOR CLOSER, PREMIUM MODEL, ANODIZED BRONZE, COMPLETE AS SPECIFIED.	EACH	10		
241	SH4	APPLYING TWO COATS OF APPROVED WEATHER-RESISTANT EXTERIOR PAINT ON OLD PLASTERED EXTERIOR WALL SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	SQM	857		

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
242	SH4	SUPPLY AND FIXING WALL SHOWER SET SINGLE LEVER CP (STANDARD), CONSISTING OF WALL SHOWER, DOUBLE BIB COCK, TEE STOP COCK, BASIN MIXER AND TOILET SHOWER, COMPLETE AS SPECIFIED.	EACH	1		
243	SH4	SUPPLY AND FIXING TOILET SHOWER, 15 MM DIAMETER, COMPLETE AS SPECIFIED.	EACH	2		
244	SH4	SUPPLY AND FIXING VANITY BOWL, GLAZED WARE, ONE HOLE, WITH BOTTLE TRAP AND WASTE COUPLING, COMPLETE AS SPECIFIED (EXCLUDING MIXER).	EACH	2		
245	SH4	SUPPLY AND FIXING WATER CLOSET (WC) OF DELUXE QUALITY, EUROPEAN PATTERN, COMPLETE (COUPLED), COMPLETE AS SPECIFIED.	EACH	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
246	SH4	SUPPLY AND FIXING BATH ACCESSORIES SET (PLASTIC) CONSISTING OF SHELF, TOWEL RAIL, RING, BRUSH HOLDER, TOILET PAPER HOLDER, SOAP DISH AND MIRROR, COMPLETE AS SPECIFIED.	EACH	2		
247	SH4	PROVIDING AND LAYING PRECAST RCC 1:2:4 MANHOLE COVER WITH EMBEDDED ANGLE-IRON FRAME, AS PER INFORMATION SHEET SVCS-341, COMPLETE AS SPECIFIED.	NOS	15		
248	SH4	SUPPLY AND FIXING STAINLESS STEEL HANDRAIL FOR STAIRS/RAMPS/ACCESSIBILITY, USING 3/4 INCH TO 2 INCH DIA 16-18 GAUGE PIPE INCLUDING BALUSTERS AND ALL FITTINGS, HEIGHT UP TO 900 MM, COMPLETE AS SPECIFIED.	MTR	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
249	SH4	PROVIDING AND LAYING 75 MM THICK PCC 1:2:4 PLINTH PROTECTION/USE FOR WHEELCHAIR RAMP BASE, USING CRUSHED STONES, SURFACE FINISHED AND SMOOTHED WITH CEMENT AND STEEL TROWEL, INCLUDING FORMWORK, COMPLETE AS SPECIFIED.	SQM	18		
250	SH4	PROVIDING AND LAYING STANDARD QUALITY NON-SLIP FLOOR TILES FOR WHEELCHAIR RAMPS/ACCESSIBLE AREAS, INCLUDING SETTING, JOINTING AND BONDING, COMPLETE AS SPECIFIED.	SQM	18		
251	SH4	SUPPLY AND FIXING STEEL BUTT HINGES, 50 MM LONG, COMPLETE WITH SCREWS AND FIXING, FOR DOORS AND WINDOWS, COMPLETE AS SPECIFIED.	EACH	150		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
252	SH4	SUPPLY AND FIXING CP TOWER BOLTS, 100 MM LONG, WITH BRIGHT SHOOTS, FIXED WITH SOCKETS OR LET INTO ANY MATERIAL, COMPLETE AS SPECIFIED.	EACH	50		
253	SH4	SUPPLY AND FIXING STEEL HANDLE BOW, 150 MM OVERALL, COMPLETE WITH SCREWS, COMPLETE AS SPECIFIED.	EACH	60		
254	SH4	SUPPLY AND FIXING STEEL KNOB 30 MM FOR CUPBOARD, HAVING SCREWED END, COMPLETE AS SPECIFIED.	EACH	40		
255	SH4	SUPPLY AND FIXING BRASS OR COPPER KICK PLATE (16-18 GAUGE), COMPLETE AS SPECIFIED.	SQM	8		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
256	SH4	SUPPLY AND FIXING 13 MM THICK SOFT BOARD SHEET, FIXED IN CEILING AND PARTITIONS WITH 1ST CLASS SOFT WOOD (DEODAR) BEVELED EDGE COVER FILLETS 50 MM X 13 MM SCREWED ON, COMPLETE AS SPECIFIED.	SQM	45		
257	SH4	SUPPLY AND FIXING FIBRE GLASS CEILING PANELS (1200 MM X 600 MM), SINGLE PLY (NOT LESS THAN 1 MM THICK), IN ANY COLOUR/TEXTURE, INCLUDING ALUMINIUM TEE AND ANGLE 25X25X1 MM, HANGER CLIPS, JOINTING CLIPS AND GI 14 SWG WIRE, INCLUDING OPENINGS FOR LIGHTS, COMPLETE AS SPECIFIED.	SQM	65		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
258	SH4	SUPPLY AND FIXING PLASTER OF PARIS (POP) CEILING TILES (600 MM X 600 MM X 20 MM), FIXED IN CEILING IN ANY DESIGN, PARTITIONS AND DADOS, COMPLETE AS SPECIFIED.	SQM	35		
259	SH4	SUPPLY AND FIXING 10 MM THICK MDF SHEETS CEILING, ALONG WITH HANGING ARRANGEMENTS, ALUMINIUM TEE AND ANGLE 25X25X1 MM, INCLUDING HANGER CLIPS, JOINTING CLIPS, COMPLETE AS SPECIFIED.	SQM	30		
260	SH5	IN ANY SOIL DRILLING BORE HOLE 450 MM DIA EMPLOYING REVERSE ROTARY HYDRAULIC PERCUSSION METHOD BORE UPTO 50 M DEPTH COMPLETE.	METRE	260		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
261	SH5	IN ANY SOIL DRILLING BORE HOLE 450 MM DIA EMPLOYING REVERSE ROTARY HYDRAULIC / PERCUSSION METHOD BORE MORE THAN 50M BUT UPTO 100 M DEPTH COMPLETE.	METRE	230		
262	SH5	SUPPLY AND INSTALLATION MS BLIND PIPE 5 MM THICK 250MM DIA WITH WELDING JOINTS COMPLETE.	METRE	280		
263	SH5	SUPPLY AND LOWERING IN PREDRILLED BORE HOLE 250 MM DIA V-WIRE V-WEDGE CONTINUOUS SLOT STAINLESS STEEL WATER WELL SCREEN PROPER WELDED WITH MS PIPE COMPLETE.	METRE	140		
264	SH5	SUPPLY AND INSTALLATION OF BAIL PLUG 250 MM DIA OF APPROVED SPECIFICATIONS.	EACH	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
265	SH5	SUPPLY AND POURING OF SHROUDING GRAVEL OF REQUISITE GRADE IN ANNULAR SPACE BETWEEN BLIND PIPE/STRAINER AND BORE HOLE ACCORDING TO SPECIFICATIONS FOR 250 MM DIA BLIND PIPE/STRAINER.	METRE	360		
266	SH5	PROVISION OF SANITARY SEAL OF APPROVED DESIGN AND SPECIFICATION FOR 250 MM DIA BLIND PIPE.	METRE	14		
267	SH5	DEVELOP TEST AND STERILIZE TUBE WELL IN ACCORDANCE WITH APPROVED PROCEDURE 250 MM DIA.	EACH	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
268	SH5	EXCAVATE AS IN ORDINARY SOIL UPTO 1.5 M DEPTH IN FOUNDATION AND PIPE TRENCHES UPTO 1.5M WIDE IN SHAFTS WELLS AND INDEPENDENT HOLES UPTO 30 SQM EACH AND THROW EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10M. TIMBERING TO BE PAID EXTRA.	CUM	2083		
269	SH5	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 1.5 MTR BUT NOT EXCEEDING 3 MTR DEPTH.	CUM	340		
270	SH5	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 3 MTR BUT NOT EXCEEDING 4.50 MTR DEPTH.	CUM	42		
271	SH5	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 4.5 MTR BUT NOT EXCEEDING 6.00 MTR DEPTH.	CUM	42		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
272	SH5	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 6 MTR BUT NOT EXCEEDING 7.50 MTR DEPTH.	CUM	42		
273	SH5	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 7.50 MTR BUT NOT EXCEEDING 9.0 MTR DEPTH.	CUM	42		
274	SH5	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 9 MTR BUT NOT EXCEEDING 10.50 MTR DEPTH.	CUM	42		
275	SH5	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 10.5 MTR BUT NOT EXCEEDING 12.0 MTR DEPTH.	CUM	42		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
276	SH5	EXCAVATION AS IN HARD SOIL UPTO 1.5 M DEPTH IN FOUNDATION AND PIPE TRENCHES UPTO 1.5 M WIDE IN SHAFTS WELLS AND INDEPENDENT HOLES UPTO 30 SQM EACH AND THROW EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10M.	CUM	357		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
277	SH5	EARTH FILLING AS IN ORDINARY OR HARD SOIL FILLING IN FOUNDATION PIPE TRENCHES SHAFTS WELLS INDEPENDENT HOLES UNDER FLOORS OR AROUND PLINTH ETC 1.5 M BELOW OR ABOVE GROUND LEVEL (GL) WITH SPOIL OBTAINED FROM EXCAVATION IN TRENCHES/OVER AREAS WITHIN 10M INCLUDING WATERING AND COMPACTION IN 150MM LAYER AND DRESSING TO REQUIRED PROFILE AND SHAPE.	CUM	802		
278	SH5	PROVIDING AND LAYING OF LEAN CONCRETE USING CRUSHED OR BROKEN STONE GRADED 1:4:8 ALL AS SPECIFIED.	CUM	21		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
279	SH5	PROVIDING AND LAYING OF CC TYPE C USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED.	CUM	58		
280	SH5	PROVIDING AND LAYING OF RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH USING WEIGH BATCH CONCRETE INCLUDING PUMP ETC AND TRANSPORTATION UPTO 5 KM BY TRANSIT MIXER AS SPECIFIED IN ROOF SLABS LANDINGS WALLS PLINTH BEAMS AND BANDS ETC INCLUDING FORM WORK (REINFORCEMENT MEASURED AND PAID SEPARATELY).	CUM	11		
281	SH5	SUPPLY AND FIX BARS ROUND USING DEFORMED BARS GRADE - 40 INCLUDING CUTTING BENDING BINDING AND PLACING REINFORCEMENT IN POSITION.	KG	921		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
282	SH5	BURNT BRICK WORK IN WALL OVER 115 MM THICK LAID AND JOINTED IN CEMENT MORTAR 1:4 STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER UPTO 4.25 M DEPTH.	CUM	65		
283	SH5	BRICK BATS OR OTHER APPROVED FILLING IN SOKAGE PITS ETC.	CUM	291		
284	SH5	PROVIDING AND LAYING 13MM TH CEMENT PLASTER AS IN CM 1:4 WITH PUDLO OR OTHER SIMILAR APPROVED MATERIAL MIXED WITH CEMENT AT THE RATE OF 3% BY WEIGHT COMPLETE ALL AS SPD.	SQM	1367		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
285	SH5	TUBE WATER QUALITY (GI) WITH ALL FITTINGS (I.E. SOCKETS BENDS TEES ELBOWS WHERE REQUIRED) AND LAID COMPLETE IN TRENCHES (EXCLUDING EXCAVATION) OR FIXED TO WALL FLOOR (SURFACE OR CONCEALED) AND CEILING ETC. INCLUDING CAPS AND PLUGS AS REQUIRED 100 MM DIA (MEDIUM) SUPPLY AND FIXING.	METRE	1293		
286	SH5	POLYETHYLENE PIPE (PE-100) 63 MM DIA CLASS PN-10/SDR-17 LAID IN TRENCHES (EXCLUDING EXCAVATION) SUPPLY AND FIXING.	MTR	92		
287	SH5	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 20 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	MTR	192		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
288	SH5	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 25 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	MTR	1299		
289	SH5	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 32 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	MTR	697		
290	SH5	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 40 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	MTR	350		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
291	SH5	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 50 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	MTR	207		
292	SH5	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 63 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	MTR	23		
293	SH5	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 75 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	MTR	705		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
294	SH5	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 110 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	MTR	5		
295	SH5	POLYETHYLENE PIPE (PE-100) 160 MM DIA CLASS PN-16 / SDR-11 (EXCLUDING COST OF EXCAVATION) SUPPLY AND FIXING.	METRE	1900		
296	SH5	SUPPLY AND FIX RCC PIPES 300 MM BORE LAID AND JOINTED WITH SPIGOT SOCKET OR TONGUE AND GROOVE JOINT INCLUDE RUBBER RING AS SPECIFIED.	MTR	1866		
297	SH5	SUPPLY AND FIX UPVC SOIL AND WASTE PIPE 160MM BORE (OUTSIDE DIA) COMPLETE WITH PLAIN END AND SOLVENT CEMENT JOINT AS SPECIFIED.	MTR	58		

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
298	SH5	PPR COUPLER / SOCKET 40 MM DIA SUPPLY AND FIXING.	EACH	5		
299	SH5	SUPPLY AND FIX UPVC EQUAL TEE 160MM DIA COMPLETE WITH SOLVENT CEMENT JOINT ALL AS SPECIFIED.	NO	6		
300	SH5	BALL TAP WITH HANDLE 20 MM DIA FOR PPR PIPE.	EACH	16		
301	SH5	BALL TAP WITH HANDLE 25 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	EACH	108		
302	SH5	BALL TAP WITH HANDLE 32 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	EACH	16		
303	SH5	BALL TAP WITH HANDLE 40 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	EACH	20		
304	SH5	BALL TAP WITH HANDLE 50 OR 60 MM DIA FOR PPR PIPE.	EACH	2		
305	SH5	BALL TAP WITH HANDLE 63 MM DIA FOR PPR PIPE.	EACH	9		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
306	SH5	SCREW TAP WITH HANDLE 32 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	EACH	4		
307	SH5	SCREW TAP WITH HANDLE 40 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	EACH	6		
308	SH5	SCREW TAP WITH HANDLE 50 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	EACH	3		
309	SH5	SCREW TAP WITH HANDLE 63 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	EACH	1		
310	SH5	BIB COCK BRASS CP FANCY TYPE SCREWED DOWN BSP 15 MM DIA.	EACH	27		
311	SH5	STOP COCK BRASS CP SCREW DOWN HIGH PRESSURE FANCY TYPE 15MM DIA. BUT CONCEALED TYPE.	EACH	54		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
312	SH5	STOP COCK BRASS CP SCREW DOWN HIGH PRESSURE FANCY TYPE 15MM DIA. BUT TEE STOP COCK.	EACH	114		
313	SH5	FLOAT VALVES BRASS (CORYDON) OR OTHER APPROVED PATTERN WITH PLASTIC BALL SCREWED FOR IRON (BRASS FERRULE) WITH COPPER BALL 40MM DIA.	EACH	4		
314	SH5	FLOAT VALVES BRASS (CORYDON) OR OTHER APPROVED PATTERN WITH PLASTIC BALL SCREWED FOR IRON (BRASS FERRULE) WITH COPPER BALL 50MM DIA.	EACH	1		
315	SH5	GLOBE VALVES GUNMETAL SCREWED BOTH ENDS COMPLETE WITH STEEL HANDLE CLASS-150 40 MM DIA SUPPLY AND FIXING.	EACH	10		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
316	SH5	GLOBE VALVES GUNMETAL SCREWED BOTH ENDS COMPLETE WITH STEEL HANDLE CLASS-150 50 MM DIA SUPPLY AND FIXING.	EACH	10		
317	SH5	GLOBE VALVES GUNMETAL FLANGED AND DRILLED TO BS TABLE 18-1-10 COMPLETE WITH STEEL HANDLE CLASS-150 80MM DIA SUPPLY AND FIXING.	EACH	12		
318	SH5	SLUICE VALVE ACCORDING TO BSS-3464 CLASS 150 (TABLE 18-1-6) FLANGED AND DRILLED TO BS TABLE 18-1-10 COMPLETE WITH RUBBER PACKING 100 MM DIA SUPPLY AND FIXING.	EACH	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
319	SH5	SLUICE VALVE ACCORDING TO BSS-5150/5163 PN-16 (TABLE 18-1-8) FLANGED AND DRILLED TO BS TABLE 18-1-10 COMPLETE WITH RUBBER PACKING 150 MM DIA SUPPLY AND FIXING.	EACH	18		
320	SH5	SUPPLY AND FIXING OF NON RETURN VALVE OR REFLUX VALVE SCREWED 15 MM DIA.	EACH	2		
321	SH5	SUPPLY AND FIXING OF NON RETURN VALVE OR REFLUX VALVE SCREWED 20 MM DIA.	EACH	4		
322	SH5	SUPPLY AND FIXING OF NON RETURN VALVE OR REFLUX VALVE SCREWED 150 MM DIA	EACH	2		
323	SH5	SOCKET GI 150 MM DIA SUPPLY AND FIXING.	EACH	12		
324	SH5	BEND GI 45 DEG / 90 DEG 150 MM DIA SUPPLY AND FIXING.	EACH	8		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
325	SH5	SUPPLY AND FIX GUARD BARS GRILLS RAILING LADDERS BRACKETS HOOKS HOLD FASTS AND FRAMES ETC CUT TO DEAD LENGTH REDUCED TO SIZE SHAPE FIGURE ETC INCLUDING PUNCHING / DRILLING HOLES IF NECESSARY AND FIXING ASSEMBLING BY WELDING OR WITH THE USE OF BOLTS NUTS RIVETS WASHERS ETC AND ERECTION/FIXING IN POSITION INCLUDING MAKING GOOD THE DISTURBED SURFACES.	KG	41		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
326	SH5	SUPPLY AND FIX XPM EXPENDED METAL 25MM X 25MM MASH 18 GAGUE BRC FABRIC WELD MESH MAXWELD ETC IN REINFORCEMENT OR IN OTHER POSITIONS LIKE DOORS PARTITION AND LATHING FOR PLASTER TO SHAPE SIZE AS REQUIRED INCLUDING BINDING WITH 14 SWG WIRE NAILS STAPLES ETC AND PLACING IN POSITION MEASURED NET.	SQM	3		
327	SH5	MANHOLES COMPLETE RECTANGULAR OR CIRCULAR AS DESCRIBED EXCEEDING 600 MM DEEP BUT NOT EXCEEDING 1800 MM DEEP WITH IRON STEPS (IN ANGLES 380 MM CENTRES) 230MM THICK BRICK WALLS (EXCEPT MANHOLE COVER).	CUM	269		

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
328	SH5	PROVIDING AND LAYING RCC TYPE B MANHOLE COVER (PRECAST COMPLETE WITH ANGLE IRON FRAME EMBEDDED IN CONCRETE ALL AS PER INFORMATION SHEET NO. SVCS-341 DATED 10-11-99.	NO	141		
329	SH5	EXCAVATE DISPOSE SPOIL SUPPLY SURFACE GULLIES (230X230X100 MM) WITH 100 MM PCC SURROUND AND CI GRATING COMPLETE.	EACH	6		
330	SH5	DEMOLITION OF PLAIN CEMENT CONCRETE.	CUM	23.986318315808		
331	SH5	SUPPLY AND FIX WALL SHOWER SET SINGLE LEVER CP (PREMIUM) CONSISTING OF A WALL SHOWER, DOUBLE BIB COCK, TEE STOP COCK, BASIN MIXER AND TOILET SHOWER COMPLETE ALL AS SPECIFIED	EACH	8		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
332	SH5	SUPPLY AND FIXING BASIN MIXER SINGLE LEVER CP, 15MM DIA INCLUDING PIPE CONNECTION COMPLETE AS SPECIFIED.	EACH	8		
333	SH5	SUPPLY AND FIXING SINK MIXER CP SINGLE LEVER HIGH NECK FANCY, 15 MM DIA, INCLUDING PIPE CONNECTION COMPLETE ALL AS SPECIFIED	EACH	8		
334	SH5	SUPPLY AND FIXING OF WHITE GLAZED EARTHENWARE ASIATIC-PATTERN WATER CLOSET (WC) NOT LESS THAN 550 MM LONG COMPLETE WITH FLUSHING CISTERN FLUSH PIPE AND CONNECTIONS COMPLETE AS SPECIFIED.	NO	6		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
335	SH5	SUPPLY AND FIXING OF GLAZED-WARE WASH BASIN/VANITY BOWL WITH SINGLE FAUCET HOLE INCLUDING BOTTLE TRAP WASTE COUPLING CP BASIN MIXER AND ALL CONNECTIONS COMPLETE AS SPECIFIED.	NO	6		
336	SH5	SUPPLY AND FIXING OF 5 MM THICK SILVERED GLASS MIRROR (ANY SHAPE: RECTANGULAR CIRCULAR OR OVAL) WITH GROUND AND POLISHED EDGES FIXED TO WALL WITH SCREWS AND PLUGS COMPLETE AS SPECIFIED.	SQM	6		
337	SH5	SUPPLY AND FIXING OF PLASTIC SHELF (ANY SIZE AND SHAPE) WITH SCREWS AND WALL PLUGS COMPLETE AS SPECIFIED.	EACH	6		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
338	SH5	SUPPLY AND FIXING OF CHROME-PLATED (CP) SINGLE-ROD TOWEL RAIL ANY PATTERN AND SIZE WITH SCREWS AND WALL PLUGS COMPLETE AS SPECIFIED.	EACH	6		
339	SH5	ELECTRIC GEYSER 45 LIT CAPACITY COMPLETE WITH THERMOSTAT SAFETY VALVE SUPPLY AND FIXING.	EACH	2		
340	SH5	ELECTRIC WATER COOLER SP 220/240V COOLING CAPACITY 60 LIT/HR COMPLETE SUPPLY AND FIXING.	EACH	6		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
341	SH5	HYPO-CHLORINATOR SOLENOID TYPE HAVING LIQUID CHLORINE FEEDING CAPACITY 20 GPD AT 150 PSI FITTED WITH FLOW RATE CONTROL KNOB MANUALLY ADJUSTABLE 0-100% OPERATED AT 220/240V 50 HZ DIAPHRAGM TYPE OF NON-CORROSIVE MATERIAL WITH STANDARD SUCTION/DISCHARGE TUBING INJECTOR PRESSURE AUTO RELIEF VALVE ANTI-SIPHON VALVE SOLUTION STORAGE TANK OF 50 GAL CAPACITY PE/PVC WITH STAND DULY PAINTED AS SPECIFIED SUPPLY AND FIXING.	EACH	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
342	SH5	PUMPING SET SUBMERSIBLE WITH AC ELECTRIC MOTOR DRIVEN 400 V 3 PHASE 50 CYCLES COMPLETE WITH PUMP MOTOR CABLE COLUMN PIPES MOTOR CONTROL UNIT PUMP CAPACITY 0.5 CUSEC UPTO 97 M HEAD PUMP SETTING 60 M WITH 82-91 HP MOTOR 2900 RPM MOTOR EFFICIENCY IE2 INSULATION CLASS F ENCLOSURE CHARACTERISTICS IP-68 SUPPLY AND FIXING.	EACH	2		
343	SH6	CLEARING AND GRUBBING THE SITE INCLUDING REMOVAL OF GRASS, SHRUBS, BRUSHWOOD, UNDERGROWTH, ROOTS, AND SMALL TREES NOT EXCEEDING 225 MM GIRTH, DISPOSING OF CLEARED MATERIAL OFF-SITE, COMPLETE AS SPECIFIED.	SQM	92		

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
344	SH6	EXCAVATION IN ORDINARY SOIL UP TO 1.5 M DEPTH, IN FOUNDATION AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA, COMPLETE AS SPECIFIED.	CUM	11324		
345	SH6	EXCAVATION IN HARD SOIL UP TO 1.5 M DEPTH, IN FOUNDATION AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA, COMPLETE AS SPECIFIED.	CUM	903		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
346	SH6	EXCAVATION OVER AREAS IN ORDINARY/HARD SOIL FROM 1.5 M TO 3 M DEPTH, IN FOUNDATION/EXCAVATIONS, THROWING EARTH CLEAR WITHIN 50 M; FOR DEEP EXCAVATION OF SEMI-UNDERGROUND UAV BUNKER STRUCTURES.	CUM	400		
347	SH6	EARTH FILLING IN ORDINARY OR HARD SOIL, IN FOUNDATION, PIPE TRENCHES, SHAFTS, WELLS, INDEPENDENT HOLES, UNDER FLOORS OR AROUND PLINTH ETC., 1.5 M BELOW OR ABOVE GROUND LEVEL, WITH SPOIL OBTAINED FROM EXCAVATION IN TRENCHES/OVER AREAS WITHIN 50 M, INCLUDING WATERING AND COMPACTION IN 150 MM LAYERS AND DRESSING TO REQUIRED PROFILE AND SHAPE.	CUM	468		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
348	SH6	MAKING EMBANKMENT WITH SPECIFIED/APPROVED SOIL OBTAINED FROM BORROW EXCAVATION, INCLUDING LOADING WITHIN 5 KM, COMPACTION IN 150 MM LAYERS UP TO 95% MODIFIED AASHTO DENSITY, AND DRESSING TO REQUIRED PROFILE AND SHAPE.	CUM	200		
349	SH6	CUT OR FILL IN GRANULAR SOIL NOT EXCEEDING 150 MM, COMPACTING THE FORMATION SURFACE BY COMPACTION EQUIPMENT AND ROLLER UP TO 100% MODIFIED AASHTO DENSITY, INCLUDING FILLING DEPRESSIONS WITH HARD SOIL.	SQM	92		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
350	SH6	LOADING OF EXCAVATED SOIL, ROCK, DEMOLISHED BRICK BATS, BRICKS, SAND AND BITUMEN ETC. BY ANY MEANS UP TO 1000 M, UNLOADING AND STACKING OR SPREADING, PLUS CARRIAGE FOR EACH SUBSEQUENT 5 KM OR PART THEREOF.	CUM	130		
351	SH6	MAKING EMBANKMENT WITH SPECIFIED/APPROVED SOIL OBTAINED FROM BORROW EXCAVATION FOR EARTH COVERING OVER UAV BUNKER ROOFS FOR CAMOUFLAGE AND THERMAL INSULATION, INCLUDING LOADING, PLACING IN LAYERS, AND COMPACTION, COMPLETE AS SPECIFIED.	CUM	250		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
352	SH6	GRANULAR BACKFILLING USING APPROVED GRANULAR SUB-BASE MATERIAL, LAID AND COMPACTED IN LAYERS TO 100% MODIFIED AASHTO DENSITY, COMPLETE AS SPECIFIED.	CUM	534		
353	SH6	PROVIDING SAND CUSHION IN LAYERS AS SPECIFIED, UNDER CONCRETE SLABS, HARD STANDINGS AND RUNWAYS ETC., COMPLETE.	CUM	250		
354	SH6	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:4:8) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, COMPLETE.	CUM	721		
355	SH6	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:3:6) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, COMPLETE.	CUM	104		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
356	SH6	PROVIDING AND LAYING PCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ALL STRUCTURAL/NON-STRUCTURAL ELEMENTS (E.G., STEPS), INCLUDING FORMWORK AND FAIR FACES TO EXPOSED SURFACES.	CUM	125		
357	SH6	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN DIFFERENT STRUCTURAL ELEMENTS (FOUNDATION ETC.) INCLUDING FORMWORK, COMPLETE; REINFORCEMENT MEASURED AND PAID SEPARATELY.	CUM	2382		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
358	SH6	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS ETC., INCLUDING FORMWORK; REINFORCEMENT MEASURED AND PAID SEPARATELY.	CUM	337		
359	SH6	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN COLUMNS, BEAMS, STAIRS, POSTS, STRUTS, PIERS, LINTELS AND THE LIKE, INCLUDING FORMWORK; REINFORCEMENT MEASURED AND PAID SEPARATELY.	CUM	1751		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
360	SH6	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY; FOR UAV BUNKER ROOF SLAB WITH WATERPROOFING MEMBRANE.	CUM	90		
361	SH6	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY; FOR UAV BUNKER ROOF SLAB WITH WATERPROOFING MEMBRANE.	CUM	55		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
362	SH6	SUPPLY AND FIXING DEFORMED STEEL BARS GRADE-60 REINFORCEMENT, INCLUDING CUTTING, BENDING, BINDING WITH 16 SWG WIRE, AND PLACING IN POSITION AT ANY HEIGHT/LEVEL, COMPLETE AS SPECIFIED.	KG	3212598.9501584		
363	SH6	BURNT BRICK WORK IN WALLS OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:4, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE.	CUM	211		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
364	SH6	BURNT BRICK WORK IN WALLS OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE.	CUM	128		
365	SH6	BURNT BRICK WORK IN WALLS OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO FIRST FLOOR ROOF LEVEL, COMPLETE.	CUM	141		
366	SH6	PROVIDING AND LAYING PCC SOLID BLOCKS FOR NON-LOAD-BEARING WALLS, INCLUDING SETTING AND JOINTING IN CEMENT MORTAR 1:6, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	CUM	5215		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
367	SH6	PROVIDING AND LAYING PCC HOLLOW BLOCKS FOR NON-LOAD-BEARING WALLS, INCLUDING SETTING AND JOINTING IN CEMENT MORTAR 1:6, UP TO BASEMENT/GROUND FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	CUM	6		
368	SH6	PROVIDING AND LAYING 50 MM THICK PCC 1:2:4 USING 3 MM AGGREGATE, FINISHED SMOOTH WITH STEEL FLOAT, COVERED WITH TWO COATS OF HOT BITUMEN AT 0.75 KG PER SQM EACH, AND BLINDED WITH 0.012 CUM OF SAND PER SQM.	SQM	1398		
369	SH6	PROVIDING AND LAYING A BOND-BREAKING SLIP MEMBRANE BENEATH FLOOR SLABS, CONSISTING OF 0.102 MM THICK POLYETHYLENE FILM LAID OVER THE PREPARED SUB-BASE, COMPLETE AS SPECIFIED.	SQM	29		

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
370	SH6	PROVIDING AND APPLYING TWO COATS OF HOT-APPLIED BITUMEN (10/20 GRADE) ON ROOF SURFACE AT 0.75 KG PER SQM PER COAT, EACH COAT BLINDED WITH SAND AT 0.012 CUM PER SQM, INCLUDING CLEANING AND PREPARATION OF THE SURFACE, COMPLETE.	SQM	269		
371	SH6	TERMITE PROOFING OF NEW BUILDINGS/FOUNDATIONS WITH APPROVED CHEMICALS (EXCEPT JOINERY), APPLIED TO BEDS AND SIDES OF EXCAVATED TRENCHES, BACKFILLS, FILLED-UP EARTH, AND SURROUNDING AREAS WITHIN 5 M OF THE BUILDING, COMPLETE WITH 5-YEAR WARRANTY.	SQM	51		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
372	SH6	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:4 MIX) ON INTERNAL WALL SURFACES (BASEMENT, GROUND, FIRST AND SECOND FLOORS), FINISHED SMOOTH, COMPLETE AS SPECIFIED.	SQM	1061		
373	SH6	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:6 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	SQM	110		
374	SH6	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:3 MIX) ON WALL SURFACES (BASEMENT, GROUND, FIRST AND SECOND FLOORS), FINISHED SMOOTH, COMPLETE AS SPECIFIED.	SQM	3854		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
375	SH6	PROVIDING AND LAYING 13 MM THICK TERRAZZO DADO/SKIRTING (MARBLE CHIPS MIXED WITH ORDINARY CEMENT IN 1:2 RATIO) ON A 1:3 CEMENT PLASTER BASE, INCLUDING CUTTING AND RUBBING, COMPLETE.	SQM	16		
376	SH6	PROVIDING AND LAYING 80 MM THICK HYDRAULICALLY-COMPRESSED PCC PAVING STONES IN NATURAL COLOUR, IN ANY PATTERN OR SHAPE, LAID AND JOINTED IN SAND ON A 50 MM THICK SAND BEDDING COURSE, FOR FLOORS, LOADING DECKS AND HEAVY-DUTY AREAS, COMPLETE AS SPECIFIED.	SQM	75139		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
377	SH6	PROVIDING AND LAYING 80 MM THICK HYDRAULICALLY-COMPRESSED PCC PAVING STONES IN ANY COLOUR OTHER THAN NATURAL, IN ANY PATTERN OR SHAPE, LAID AND JOINTED IN SAND ON A 50 MM THICK SAND BEDDING COURSE, COMPLETE AS SPECIFIED.	SQM	322		
378	SH6	PROVIDING AND LAYING 20 MM THICK TERRAZZO FLOOR USING MARBLE CHIPS (1:2) WITH ORDINARY CEMENT, INCLUDING CUTTING, RUBBING, CLEANING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	SQM	11		
379	SH6	SUPPLY AND FIXING 8-10 MM THICK AND 40 MM WIDE MARBLE PATTY AS DIVIDING STRIPS IN FLOORS, COMPLETE AS SPECIFIED.	MTR	12		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
380	SH6	PROVIDING AND LAYING PCC 1:4:8 UNDER FLOOR USING CRUSHED OR BROKEN STONES, COMPLETE AS SPECIFIED.	CUM	64		
381	SH6	PROVIDING AND LAYING PCC 1:2:4 IN FLOOR SLABS, SURFACE FINISHED SMOOTH WITH NEAT CEMENT AND STEEL TROWEL, USING CRUSHED OR BROKEN STONE, FOR BASEMENT/GROUND FLOOR, COMPLETE AS SPECIFIED.	CUM	2		
382	SH6	PROVIDING AND LAYING 50 MM THICK FLOOR TOPPING WITH PCC OF 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH, COMPLETE AS SPECIFIED.	SQM	389		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
383	SH6	PROVIDING AND LAYING PAVEMENT QUALITY CONCRETE (PQC) OF 600 PSI FLEXURAL STRENGTH FOR RUNWAY, TAXIWAY LINKS, LEAD-INS AND TARMAC, OF ANY THICKNESS, USING AN APPROVED CONCRETE MIX DESIGN, LAID MANUALLY, COMPLETE AS SPECIFIED.	CUM	73		
384	SH6	PROVIDING AND LAYING 75 MM THICK PCC 1:2:4 PLINTH PROTECTION USING CRUSHED STONES, SURFACE FINISHED AND SMOOTHED WITH CEMENT AND STEEL TROWEL, INCLUDING FORMWORK, COMPLETE AS SPECIFIED.	SQM	79		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
385	SH6	PROVIDING AND LAYING PCC 1:3:6 IN FLOOR SLABS, SURFACE FINISHED SMOOTH WITH CEMENT AND STEEL TROWEL USING CRUSHED OR BROKEN STONES, FOR BASEMENT/GROUND FLOOR, COMPLETE AS SPECIFIED.	CUM	4		
386	SH6	PROVIDING AND FIXING 22 BG CORRUGATED GALVANIZED IRON (CGI) ROOFING SHEETS ON THE VEHICLE SHED ROOF, FIXED TO TIMBER/STEEL PURLINS WITH ONE-AND-A-HALF CORRUGATION SIDE LAPS AND 150 MM END LAPS, USING GALVANIZED SCREWS, FIBRE WASHERS, AND CURVED/LIMPET WASHERS AT CENTRES NOT EXCEEDING 380 MM, COMPLETE AS SPECIFIED.	SQM	558		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
387	SH6	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF A MOTORIZED SLIDING/OPENING MECHANISM WITH REMOTE CONTROL FOR THE HEAVY-DUTY STEEL GATE, INCLUDING MOTOR, DRIVE, CONTROLS, SAFETY SENSORS, AND ALL ACCESSORIES, COMPLETE AS SPECIFIED.	JOB	1		
388	SH6	SUPPLY OF HIGH-STRENGTH WOVEN POLYPROPYLENE HESCO/DEFENCE BARRIER BAGS, 4 FT X 4 FT X 8 FT (L X W X H), WITH UV-STABILIZED COATING AND INTEGRAL FILLING SPOUTS, COMPLETE AS SPECIFIED.	NOS	15000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
389	SH6	PROVIDING AND PLACING APPROVED IMPORTED SAND/EARTH FILLING MATERIAL INTO HESCO BARRIER BAGS, INCLUDING LOADING, TRANSPORTATION TO SITE, UNLOADING AND FILLING, COMPLETE AS SPECIFIED.	CUM	1258.5		
390	SH6	PROVIDING AND FIXING TWO STRANDS OF GALVANIZED 12 SWG BARBED WIRE (4-POINT BARBS AT 75 MM CENTRES) ON ANGLED STEEL BRACKETS ALONG THE TOP OF THE HESCO WALL, FIXED WITH GI STAPLES AND TENSIONED, COMPLETE AS SPECIFIED.	MTR	3900		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
391	SH6	SUPPLY AND FIXING OF GUARD BARS, GRILLS, RAILINGS, LADDERS, BRACKETS, HOOKS, HOLDFASTS AND FRAMES ETC., CUT TO DEAD LENGTH, REDUCED TO SIZE AND SHAPE, PUNCHED/DRILLED AS NECESSARY, ASSEMBLED BY WELDING OR WITH BOLTS/NUTS/RIVETS/WASHERS, AND ERECTED/FIXED IN POSITION, INCLUDING MAKING GOOD DISTURBED SURFACES, COMPLETE AS SPECIFIED.	KG	33828		
392	SH6	SUPPLY AND FIXING OF ROUND, SQUARE OR FLAT STEEL BARS INCLUDING CUTTING, BENDING, BINDING AND PLACING REINFORCEMENT IN POSITION, COMPLETE AS SPECIFIED.	KG	714		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
393	SH6	SUPPLY AND FIXING OF BOLTS EXCEEDING 10 MM BUT NOT EXCEEDING 18 MM DIAMETER, LENGTH EXCEEDING 75 MM AND NOT EXCEEDING 150 MM, WITH HEXAGON/SQUARE/CUP/CHEESE HEADS, SCREWED ONE OR BOTH ENDS, EACH WITH ONE WASHER AND ONE HEXAGON OR SQUARE NUT, COMPLETE AS SPECIFIED.	EACH	2762		
394	SH6	SUPPLY AND FIXING OF 2 INCH X 2 INCH SQUARE MS HOLLOW PIPE SECTION, 16 GAUGE, INCLUDING CUTTING, WELDING, JOINTING AND ERECTION IN POSITION, COMPLETE AS SPECIFIED.	MTR	396		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
395	SH6	SUPPLY AND FIXING OF GALVANIZED IRON WIRE NETTING, 50 MM X 50 MM MESH, 10 SWG, FIXED WITH TINNED TACKS AND GI STAPLES, COMPLETE AS SPECIFIED.	SQM	2928		
396	SH6	PROVIDING AND FIXING TWO STRANDS OF GALVANIZED 12 SWG BARBED WIRE (4-POINT BARBS AT 75 MM CENTRES) ON POSTS/BRACKETS, FIXED WITH GI STAPLES/NAILS, INCLUDING CONNECTING UP ENDS AND TENSIONING, MEASURED PER LINEAR METRE, COMPLETE AS SPECIFIED.	MTR	57009		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
397	SH6	SUPPLY AND FIXING OF CONCERTINA/RAZOR WIRE, SINGLE COIL, 10/12 GAUGE GALVANIZED WIRE, LOOP DIAMETER 0.452 TO 0.990 M, COMPLETE WITH ALL ACCESSORIES, ALL AS SPECIFIED.	MTR	8701		
398	SH6	SUPPLY AND FIXING OF MS DT-TYPE CLAMP BRACKET, FABRICATED AS PER APPROVED DRAWING, INCLUDING BOLTS, NUTS AND WASHERS, COMPLETE AS SPECIFIED.	EACH	789.23		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
399	SH6	SUPPLY AND FIXING OF UPVC DOOR, 60 MM THICK SHUTTER WITH 20 MM THICK GROOVE PANEL FILLED INSTEAD OF GLASS, WITH FRAME, EXCEEDING 1.9 SQM EACH, IN WHITE COLOUR, INCLUDING ALL NECESSARY FITTINGS AND MONGERY, COMPLETE AS SPECIFIED.	SQM	79		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
400	SH6	SUPPLY AND FIXING OF BOX-PIPE TYPE OPENABLE/FIXED SIDE-HUNG STEEL WINDOW (OR CSW), FABRICATED FROM 16 GAUGE MS FRAME SECTION 50 MM X 25 MM AND Z-SHAPED PANEL 38 X 31 X 38 MM WITH 10 X 10 MM SQUARE GOLA, NOT EXCEEDING 1.48 SQM EACH, INCLUDING ALL FITTINGS, MONGERY, HOLDFASTS, TWO COATS OF SYNTHETIC ENAMEL PAINT OVER ONE COAT OF PRIMER, AND 5 MM THICK PLAIN SHEET GLASS, COMPLETE AS SPECIFIED.	SQM	36		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
401	SH6	SUPPLY AND FIXING OF HEAVY-DUTY REINFORCED STEEL GATE FOR UAV TAXIWAY ACCESS (30 FT WIDE &12 FT HIGH), APPROX. 20 KG/SQM, INCLUDING CUTTING, WELDING, ERECTION, HINGES, GUIDES, LOCKING MECHANISM, AND TWO COATS OF ENAMEL PAINT OVER PRIMER, COMPLETE AS SPECIFIED.	NOS	1		
402	SH6	SUPPLY AND FIXING OF STEEL DOOR AS PER APPROVED DRAWING, FABRICATED FROM MS SHEET/SECTIONS WITH NECESSARY STIFFENERS, HINGES, LOCKS, HANDLES, AND TWO COATS OF ENAMEL PAINT OVER PRIMER, APPROX. 25 KG/SQM, COMPLETE AS SPECIFIED.	SQM	3		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
403	SH6	SUPPLY AND INSTALLATION OF BLAST-RESISTANT STEEL DOOR FOR UAV BUNKER, HEAVY-DUTY CONSTRUCTION WITH AIRTIGHT NEOPRENE GASKET SEALING, MULTI-POINT LOCKING SYSTEM, AND BLAST-RATED HINGES, COMPLETE WITH ALL HARDWARE AND FACTORY FINISH AS SPECIFIED.	NOS	2		
404	SH6	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:4 MIX) ON INTERNAL WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	SQM	131		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
405	SH6	APPLYING ONE COAT OF APPROVED WEATHER-RESISTANT EXTERIOR EMULSION PAINT ON NEW PLASTERED EXTERIOR WALL SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	SQM	613		
406	SH6	APPLYING SECOND AND SUBSEQUENT COATS OF APPROVED WEATHER-RESISTANT EXTERIOR EMULSION PAINT ON PREVIOUSLY PRIMED/COATED EXTERIOR WALL SURFACES, COMPLETE AS SPECIFIED.	SQM	613		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
407	SH6	APPLYING A THREE-COAT SYSTEM OF APPROVED WEATHER-RESISTANT EXTERIOR EMULSION PAINT (ONE PRIMER COAT PLUS TWO FINISH COATS) ON NEW PLASTERED EXTERIOR WALL SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	SQM	2678		
408	SH6	APPLYING ONE COAT OF LIME WHITEWASH (FAT LIME SLAKED AND STRAINED) ON NEW OR OLD WALL/CEILING SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	SQM	66		
409	SH6	APPLYING SECOND AND SUBSEQUENT COATS OF LIME WHITEWASH ON PREVIOUSLY WHITEWASHED WALL/CEILING SURFACES, COMPLETE AS SPECIFIED.	SQM	66		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
410	SH6	APPLYING A THREE-COAT LIME WHITEWASH FINISH ON NEW OR OLD WALL/CEILING SURFACES, INCLUDING SURFACE PREPARATION AND CLEANING, COMPLETE AS SPECIFIED.	SQM	59398		
411	SH6	APPLYING A THREE-COAT OIL-BOUND DISTEMPER (OR POLYVINYL DISTEMPER) FINISH ON NEW OR OLD PLASTERED WALL SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	SQM	1483		
412	SH6	APPLYING TWO COATS OF SYNTHETIC ENAMEL PAINT ON NEW OR OLD STEEL DOORS, WINDOWS AND CSWS, INCLUDING SURFACE PREPARATION (CLEANING, SANDING, PRIMING WHERE REQUIRED), COMPLETE AS SPECIFIED.	SQM	72		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
413	SH6	APPLYING THREE COATS OF SYNTHETIC ENAMEL PAINT ON MS GRILLS/RAILINGS, INCLUDING SURFACE PREPARATION (REMOVAL OF RUST, SCALE AND OLD PAINT), COMPLETE AS SPECIFIED.	SQM	75		
414	SH7	EXCAVATION OF CABLE TRENCH UP TO 3 FEET DEEP AND 1.5 FEET WIDE FOR LAYING OF AIRFIELD LIGHTING PRIMARY CABLE OF ANY DESCRIPTION 6MM2 ON DESIRED LOCATION INCLUDING BACKFILLING IN LAYERS WITH COVERING LAYER OF SAND AROUND THE CABLE WARNING TAPE AND TILES/BRICKS COMPACTION AND MAKING GOOD AS PER PAK PWD SPECIFICATIONS.	MTR	2000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
415	SH7	EXCAVATION OF CABLE TRENCH UP TO 3 FEET DEEP AND 3 FEET WIDE FOR LAYING OF AIRFIELD LIGHTING PRIMARY CABLE OF ANY DESCRIPTION 6MM2 ON DESIRED LOCATION INCLUDING BACKFILLING IN LAYERS WITH COVERING LAYER OF SAND AROUND THE CABLE WARNING TAPE AND TILES/BRICKS COMPACTION AND MAKING GOOD AS PER PAK PWD SPECIFICATIONS.	MTR	6500		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
416	SH7	PROVIDING AND LAYING OF 4 CORE 25MM2 PVC INSULATED AND PVC SHEATHED 1900/3300 VOLTS GRADE CIRCULAR STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE IN A PROPER CABLE TRENCH BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING TILES AS PER PAK PWD SPECIFICATION.	MTR	1500		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
417	SH7	PROVIDING AND LAYING OF 4 CORE 50MM2 PVC INSULATED AND PVC SHEATHED 1900/3300 VOLTS GRADE CIRCULAR STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE IN A PROPER CABLE TRENCH BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING TILES AS PER PAK PWD SPECIFICATION.	MTR	4000		
418	SH7	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 10MM2.	MTR	200		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
419	SH7	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 16MM2.	MTR	11180		
420	SH7	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 25MM2.	MTR	210		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
421	SH7	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 35MM2.	MTR	150		
422	SH7	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 50MM2.	MTR	110		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
423	SH7	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 70MM2.	MTR	110		
424	SH7	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 95MM2.	MTR	100		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
425	SH7	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 120MM2.	MTR	100		
426	SH7	PROVIDING AND LAYING HT 11 KV 3 CORE STRANDED COPPER CONDUCTOR XLPE INSULATED CU TAPE SCREENED PVC BEDDED AND PVC SHEATHED ARMORED CABLE LAID IN EXISTING ALL KIND OF PIPES CABLE DUCT CHANNELS ETC AS PER PAK PWD SPECIFICATION - 50MM2.	MTR	150		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
427	SH7	PROVIDING AND LAYING HT 11 KV 3 CORE STRANDED COPPER CONDUCTOR XLPE INSULATED CU TAPE SCREENED PVC BEDDED AND PVC SHEATHED ARMORED CABLE LAID IN EXISTING ALL KIND OF PIPES CABLE DUCT CHANNELS ETC AS PER PAK PWD SPECIFICATION - 95MM2.	MTR	150		
428	SH7	PROVIDING AND FIXING INDOOR/OUTDOOR 3 CORE 11KV XLPE HEAT SHRINK TERMINATION ENDS KIT COMPLETE IN ALL RESPECT AS REQUIRED - 50MM2 TO 95MM2.	JOBS	6		
429	SH7	PROVIDING INSTALLATION AND COMMISSIONING OF OUTDOOR WATER TIGHT TYPE 30KVA 2000/415VOLTS 50HZ TRANSFORMER INCLUDING MAKING CONNECTIONS AND TESTING ON LOAD COMPLETE.	NOS	5		

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
430	SH7	PROVIDING INSTALLATION AND COMMISSIONING OF OUTDOOR WATER TIGHT TYPE 200 KVA 415/2000 VOLTS 50HZ TRANSFORMER INCLUDING MAKING CONNECTIONS AND TESTING ON LOAD COMPLETE.	NOS	1		
431	SH7	PROVIDING INSTALLATION AND COMMISSIONING OF OUTDOOR WATER TIGHT TYPE 150 KVA 415/2000 VOLTS 50HZ TRANSFORMER INCLUDING MAKING CONNECTIONS AND TESTING ON LOAD COMPLETE.	NOS	1		
432	SH7	PROVIDING FIXING AND COMMISSIONING INDOOR/POLE MOUNTED STEPDOWN 11000/400 VOLTS THREE PHASE 50HZ TRANSFORMER AS PER ELECTRICITY CODE COMPLETE IN ALL RESPECT - 400 KVA.	NOS	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
433	SH7	PROVIDING FIXING AND COMMISSIONING INDOOR/POLE MOUNTED STEPDOWN 11000/400 VOLTS THREE PHASE 50HZ TRANSFORMER AS PER ELECTRICITY CODE COMPLETE IN ALL RESPECT - 630 KVA.	NOS	2		
434	SH7	PROVIDING AND FIXING HT 11 KV INDOOR/OUTDOOR TYPE FUSE D LINK/CUT OFF FUSE ASSEMBLY SET OF THREE PIECES COMPLETE WITH FUSE FITTED ON ANGLE IRON BASE FRAME AS REQUIRED.	JOBS	3		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
435	SH7	PROVIDING AND ERECTING LT MS TUBULAR POLE 30 FEET LONG IN THE GROUND 5FT DEEP AND MAKING PCC FOUNDATION 1:3:6 RATIO 2FT HEIGHT FROM GROUND LEVEL DULY PLASTERED INCLUDING ACCESSORIES AND INTERCONNECTION.	JOBS	370		
436	SH7	SUPPLY AND INSTALLATION OF 2 FEET 2MM THICK GI SINGLE ARM MOUNTING BRACKET.	NOS	10		
437	SH7	SUPPLY AND INSTALLATION OF 2 FEET 2MM THICK GI DOUBLE ARM MOUNTING BRACKET.	NOS	350		
438	SH7	SUPPLY AND INSTALLATION OF 2 FEET 2MM THICK GI FOUR ARM MOUNTING BRACKET.	NOS	10		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
439	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF FLOOD LIGHTS IP66 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 90-110 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 20000-25000 HOURS LIFE CYCLE INCLUDING CONNECTION - 90-100 WATTS.	NOS	100		
440	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF FLOOD LIGHTS IP66 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 90-110 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 20000-25000 HOURS LIFE CYCLE INCLUDING CONNECTION - 140-160 WATTS.	NOS	550		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
441	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF STREET/ROAD LIGHTS IP65 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 90-110 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 20000-25000 HOURS LIFE CYCLE INCLUDING CONNECTION - 90-100 WATTS.	NOS	50		
442	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF STREET/ROAD LIGHTS IP65 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 90-110 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 20000-25000 HOURS LIFE CYCLE INCLUDING CONNECTION - 140-160 WATTS.	NOS	140		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
443	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF FLOODLIGHTS IP66 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 110-120 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 40000-50000 HOURS LIFE CYCLE INCLUDING CONNECTION - 300 WATTS.	NOS	24		
444	SH7	PROVIDING FABRICATION AND INSTALLATION OF HOT DIPPED GALVANIZED POLYGONAL MAST UP TO 25 METERS HEIGHT INCLUDING MID PLATFORM HEAD PLATFORM CLIMBING LADDERS SAFETY LOOPS BASE PLATE ANCHOR BOLTS AND STIFFENERS AS PER DRAWING AND SPECIFICATION.	JOBS	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
445	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED UNIDIRECTIONAL INSET APPROACH LIGHT COMPLETE WITH PRISM GASKET CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	JOBS	5		
446	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED UNIDIRECTIONAL ELEVATED APPROACH LIGHT COMPLETE WITH FRANGIBLE COUPLING POLE/BASE ASSEMBLY CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	JOBS	19		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
447	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED UNIDIRECTIONAL INSET THRESHOLD LIGHT COMPLETE WITH PRISM GASKET CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	JOBS	12		
448	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED BIDIRECTIONAL INSET THRESHOLD/RUNWAY END LIGHT COMPLETE WITH GREEN/RED FILTERS PRISM GASKET CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	JOBS	12		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
449	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED BIDIRECTIONAL INSET RUNWAY EDGE LIGHT COMPLETE WITH PRISM GASKET CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	JOBS	6		
450	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED BI-DIRECTIONAL ELEVATED RUNWAY EDGE LIGHT COMPLETE WITH FRANGIBLE COUPLING OPTICAL SYSTEM CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	JOBS	134		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
451	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED OMNIDIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT COMPLETE WITH FRANGIBLE COUPLING OPTICAL SYSTEM CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	JOBS	50		
452	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 45 W ISOLATING TRANSFORMER RATED 6.6A/6.6A 50/60 HZ COMPLETE WITH PRIMARY AND SECONDARY CONNECTIONS EARTHING MOUNTING AND ALL ACCESSORIES SUITABLE FOR SERIES AIRFIELD LIGHTING CIRCUITS.	JOBS	62		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
453	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 65 W ISOLATING TRANSFORMER RATED 6.6A/6.6A 50/60 HZ COMPLETE WITH PRIMARY AND SECONDARY CONNECTIONS EARTHING MOUNTING AND ALL ACCESSORIES SUITABLE FOR SERIES AIRFIELD LIGHTING CIRCUITS.	JOBS	188		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
454	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF ISOLATION TRANSFORMER RATED 200 W PRIMARY CURRENT 6.6 A SECONDARY CURRENT 6.6 A FREQUENCY 50/60 HZ COMPLETE WITH AL CORE CONSTRUCTION AND ALL NECESSARY ACCESSORIES SUITABLE FOR OPERATION WITH ICAO COMPLIANT AIRFIELD LIGHTING SYSTEMS.	JOBS	8		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
455	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED PRECISION APPROACH PATH INDICATOR PAPI LIGHT 04 COMPLETE UNIT COMPLETE WITH OPTICAL ASSEMBLY FRANGIBLE MOUNTING AIMING AND CALIBRATION MECHANISM AND ALL NECESSARY ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	JOB	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
456	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 8 INCH ALUMINUM SHALLOW BASE FOR INSET AIRFIELD LIGHTING FIXTURES 135 MM HEIGHT WITH 100 MM CENTRE HOLE COMPLETE WITH O-RING GASKET MOUNTING SCREWS GROUNDING SCREW AND ALL NECESSARY ACCESSORIES.	JOBS	11		
457	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 12 INCH ALUMINUM SHALLOW BASE FOR INSET AIRFIELD LIGHTING FIXTURES 150 MM HEIGHT WITH 100 MM CENTRE HOLE COMPLETE WITH O-RING GASKET MOUNTING STUDS GROUNDING SCREW AND ALL NECESSARY ACCESSORIES.	JOBS	24		

GOVERNMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
458	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 5 KVA CONSTANT CURRENT REGULATOR CCR AIR-COOLED MICROPROCESSOR-CONTROLLED MODULAR TYPE INCORPORATING FIVE BRIGHTNESS STEPS LOCAL AND REMOTE CONTROL FACILITIES AND ALL NECESSARY PROTECTIONS CONFORMING TO FAA AND ICAO STANDARDS.	JOBS	4		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
459	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 7.5 KVA CONSTANT CURRENT REGULATOR CCR AIR-COOLED MICROPROCESSOR-CONTROLLED MODULAR TYPE INCORPORATING FIVE BRIGHTNESS STEPS LOCAL AND REMOTE CONTROL FACILITIES AND ALL NECESSARY PROTECTIONS CONFORMING TO FAA AND ICAO STANDARDS.	JOBS	6		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
460	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 15 KVA CONSTANT CURRENT REGULATOR CCR AIR-COOLED MICROPROCESSOR-CONTROLLED MODULAR TYPE INCORPORATING FIVE BRIGHTNESS STEPS LOCAL AND REMOTE CONTROL FACILITIES AND ALL NECESSARY PROTECTIONS CONFORMING TO FAA AND ICAO STANDARDS.	JOBS	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
461	SH7	PROVIDING SUPPLYING LAYING TESTING AND COMMISSIONING OF 6 MM2 SINGLE-CORE AIRFIELD LIGHTING AFL PRIMARY CABLE 5 KV GRADE XLPE INSULATED STRANDED COPPER CONDUCTOR SCREENED AND PVC/PE SHEATHED SUITABLE FOR 6.6 A SERIES LIGHTING CIRCUITS CONFORMING TO ICAO AND FAA STANDARDS.	MTR	35000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
462	SH7	PROVIDING SUPPLYING LAYING TESTING AND COMMISSIONING OF 4 MM2 2-CORE AIRFIELD LIGHTING AFL SECONDARY CABLE COPPER CONDUCTOR WITH POLYCHLOROPRENE PCP INSULATION/SHEATH SUITABLE FOR CONNECTION BETWEEN ISOLATION TRANSFORMER AND AIRFIELD LIGHTING FIXTURES CONFORMING TO ICAO AND FAA STANDARDS.	MTR	2100		
463	SH7	SUPPLYING AND DRAWING OF 6MMSQ SINGLE CORE PVC INSULATED WIRE IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED.	MTR	6000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
464	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF PRIMARY CONNECTOR KIT KD500 SUITABLE FOR 5 KV 6.6 A AIRFIELD LIGHTING AFL SERIES PRIMARY CABLE COMPRISING MOLDED PLUG AND RECEPTACLE ASSEMBLY WATERTIGHT INSULATED CONNECTORS AND ALL NECESSARY HARDWARE.	JOBS	242		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
465	SH7	PROVIDING SUPPLYING AND INSTALLATION OF L-867 HOT-DIP GALVANIZED DEEP BASE ISOLATION TRANSFORMER HOUSING FABRICATED FROM HEAVY-DUTY GALVANIZED STEEL 12-INCH DIAMETER AND 18-INCH DEPTH COMPLETE WITH COVER PLATE MOUNTING STUDS UPVC CONDUIT EXCAVATION CONCRETE FOUNDATION EARTHING AND ALL ASSOCIATED ACCESSORIES CONFORMING TO FAA STANDARDS.	JOBS	242		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
466	SH7	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF SECONDARY CONNECTOR KIT MALE AND FEMALE KD501 AND KD502 SUITABLE FOR AIRFIELD LIGHTING AFL SECONDARY CABLE CONNECTION BETWEEN THE ISOLATION TRANSFORMER AND LIGHTING FIXTURE COMPLETE WITH MOLDED WATERTIGHT CONNECTORS AND ALL NECESSARY HARDWARE CONFORMING TO FAA AND ICAO STANDARDS.	JOBS	254		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
467	SH7	PROVIDING CORE CUTTING FIXING INSTALLATION TESTING AND COMMISSIONING OF 8-INCH INSET AIRFIELD LIGHTING SHALLOW BASE INCLUDING CORE DRILLING OF EXISTING PAVEMENT POSITIONING AND ALIGNMENT GROUTING WITH APPROVED NON-SHRINK EPOXY/CEMENTITIOUS GROUT REINSTATEMENT OF SURROUNDING PAVEMENT CONFORMING TO ICAO AND FAA STANDARDS.	JOBS	31		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
468	SH7	PROVIDING CORE CUTTING FIXING INSTALLATION TESTING AND COMMISSIONING OF 12-INCH INSET AIRFIELD LIGHTING SHALLOW BASE INCLUDING CORE DRILLING OF EXISTING PAVEMENT POSITIONING AND ALIGNMENT GROUTING WITH APPROVED NON-SHRINK EPOXY/CEMENTITIOUS GROUT RESTORATION OF PAVEMENT CONFORMING TO ICAO AND FAA STANDARDS.	JOBS	165		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
469	SH7	PROVIDING SLOT CUTTING 25 MM WIDE AND UP TO 100 MM DEEP IN EXISTING PAVEMENT INCLUDING CUTTING CLEANING LAYING OF AIRFIELD LIGHTING AFL CABLE INSTALLATION OF BACKER ROD FILLING WITH APPROVED NON-SHRINK GROUT/SEALANT SURFACE FINISHING RESTORATION OF PAVEMENT CONFORMING TO ICAO AND FAA STANDARDS.	MTR	200		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
470	SH7	PROVIDING SUPPLYING AND INSTALLATION OF AIRFIELD LIGHTING AFL CABLE ROUTE MARKERS MANUFACTURED FROM REINFORCED PRECAST CONCRETE COMPLETE WITH ENGRAVED AFL CABLE IDENTIFICATION EXCAVATION CONCRETE FOUNDATION ALIGNMENT FIXING BACKFILLING AND ALL NECESSARY HARDWARE INSTALLED AT REQUIRED INTERVALS CONFORMING TO ICAO AND FAA STANDARDS.	JOBS	446		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
471	SH7	PROVIDING AND INSTALLATION OF RUNWAY/TAXIWAY GUIDANCE SIGN BOARD FACE SIZE 2100 MM X 600 MM X 210 MM LOCALLY FABRICATED 14 SWG ALUMINUM SHEET FRAME MADE WITH 1-1/4IN ALUMINUM ANGLE FRAME DULY POWDER COATED SINGLE FACED WITH 5 MM THICK ACRYLIC SHEET WITH 3M VINYL PASTING INTERNALLY ILLUMINATED BY LED TYPE LIGHTS TO BE RUN ON 6.6A CCR CIRCUIT.	JOBS	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
472	SH7	PROVIDING AND INSTALLATION OF RUNWAY/TAXIWAY GUIDANCE SIGN BOARD FACE SIZE 1200 MM X 600 MM X 210 MM LOCALLY FABRICATED 14 SWG ALUMINUM SHEET FRAME MADE WITH 1-1/4IN ALUMINUM ANGLE FRAME DULY POWDER COATED SINGLE FACED WITH 5 MM THICK ACRYLIC SHEET WITH 3M VINYL PASTING INTERNALLY ILLUMINATED BY LED TYPE LIGHTS TO BE RUN ON 6.6A CCR CIRCUIT.	JOBS	3		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
473	SH7	PROVIDING AND INSTALLATION OF RUNWAY/TAXIWAY GUIDANCE SIGN BOARD FACE SIZE 2700 MM X 800 MM X 210 MM LOCALLY FABRICATED 14 SWG ALUMINUM SHEET FRAME MADE WITH 1-1/4IN ALUMINUM ANGLE FRAME DULY POWDER COATED DOUBLE FACED WITH 5 MM THICK ACRYLIC SHEET WITH 3M VINYL PASTING INTERNALLY ILLUMINATED BY LED TYPE LIGHTS TO BE RUN ON 6.6A CCR CIRCUIT.	JOBS	2		
474	SH7	FABRICATING/MAKING 1.5FT X 1.5FT X 4FT RCC FOUNDATION PADS FOR INSTALLATION OF GUIDANCE SIGN BOARDS INCLUDING NECESSARY GROUND WORK COMPLETE AS PER SITE REQUIREMENT.	JOBS	8		

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
475	SH7	PROVIDING AND LAYING D CLASS 50MM UPVC CONDUIT 2INCH DIA WITH ALL SPECIALS FITTING INCLUDING MAKING GOOD THE DAMAGES AS PER ORIGINAL COMPLETE.	MTR	444		
476	SH7	PROVIDING AND INSTALLATION OF 3 METERS X 19 MM DIA COPPER EARTH ROD ELECTRODE BURIED UNDER GROUND ALONG WITH SUITABLE COPPER CLAMPS NUTS/BOLTS AND MAKING CONNECTIONS INCLUDING TESTING COMPLETE.	JOBS	40		
477	SH7	PROVIDING AND LAYING OF 10MM2 STRANDED BARE COPPER CONDUCTOR FOR COUNTERPOISE IN THE EXISTING CABLE TRENCH ENSURING PROPER SPACING AS PER ICAO/FAA SPECIFICATIONS COMPLETE AS REQUIRED.	MTR	8000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
478	SH7	PROVIDING AND FIXING 4IN DIA UPVC PIPE D CLASS AND SPECIALS ETC OF APPROVED MAKE AND QUALITY WITH SPECIALS AND CLAMPS ETC.	RFT	4081		
479	SH7	EXCAVATION FOR FOUNDATION TRENCHES AND DRAINS IN STRATA OF CONGLOMERATIONS OF GRAVEL AND BOULDERS BY HAMMERING CHISELING AND JUMPER WORK INCLUDING STACKING OF SERVICEABLE AND UNSERVICEABLE MATERIALS SEPARATELY LEAD UP TO ONE CHAIN AND LIFT UP TO 5 FEET.	100CFT	3855		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
480	SH7	PROVIDING AND LAYING 1:3:6 CEMENT CONCRETE SOLID BLOCK MASONRY MACHINE MADE MORE THAN 6 INCHES THICK USING GRADED SCREENED BAJRI 3/4 INCH AND DOWN GAUGE SET IN CEMENT MORTAR 1:5 IN FOUNDATION BASEMENT AND PLINTH INCLUDING SCAFFOLDING RAKING OUT JOINTS AND CURING COMPLETE.	100CFT	132		
481	SH7	1/4IN THICK CEMENT PLASTER 1:4 ON SOFFITS OF CEILING CANTILEVER SLABS SIDES AND SOFFITS OF BEAMS ETC IN FIRST FLOOR INCLUDING MAKING EDGES CORNERS AND CURING COMPLETE.	100SFT	180		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
482	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF MONOCRYSTALLINE A GRADE TIER I HIGH EFFICIENCY IEC CERTIFIED SOLAR PANEL INCLUDING CABLING MAKING CONNECTIONS COMPLETE.	WATTS	500000		
483	SH7	PROVIDING AND FIXING OF GALVANIZED RUST FREE 14 GAUGE SOLID DESIGN FRAME FOR SOLAR PANEL COMPLETE.	NOS	800		
484	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF HYBRID ONGRID INVERTER INCLUDING NECESSARY CABLES MAKING CONNECTIONS WITH LOCKING ARRANGEMENTS COMPLETE - 50 KVA.	NOS	10		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
485	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 10 AMP TO 20 AMP.	NOS	25		
486	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 25 AMP.	NOS	25		
487	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 40 AMP.	NOS	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
488	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 50 AMP.	NOS	25		
489	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 10 AMP TO 20 AMP.	NOS	25		
490	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 32 AMP.	NOS	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
491	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 40 AMP TO 50 AMP.	NOS	25		
492	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 63 AMP.	NOS	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
493	SH7	PROVIDING LAYING FIXING TESTING AND COMMISSIONING SINGLE-CORE 6 MM2 DC SOLAR CABLE RATED UP TO 1500V DC MANUFACTURED WITH TINNED COPPER CONDUCTOR DOUBLE INSULATED LSZH FLAME RETARDANT AND UV WEATHER RESISTANT CABLE LAID IN SURFACE OR CONCEALED PVC CONDUITS INCLUDING CABLE TIES LUGS MC4 CONNECTORS GLANDING CRIMPING TERMINATION COMPLETE.	MTR	4200		
494	SH7	SUPPLY AND FIXING 12IN X 4IN MS CABLE TRAY PERFORATED 18 SWG COMPLETE WITH COVER OF 20 SWG INCLUDING PAINTING AND SUPPORTING SYSTEM.	MTR	250		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
495	SH7	SUPPLY AND FIXING OF 6IN X 4IN MS CABLE TRAY PERFORATED 18 SWG COMPLETE WITH COVER OF 20 SWG INCLUDING PAINTING AND SUPPORTING SYSTEM.	MTR	150		
496	SH7	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF RECESSED SPOT LIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR 80 LM/WATT EFFICIENCY 0.9 OR ABOVE POWER FACTOR 15000-20000 HOURS LIFE CYCLE INCLUDING CONNECTION - 3 WATTS.	NOS	8		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
497	SH7	WIRING FOR LIGHT POINT WITH 1.5 MM2 SINGLE CORE PVC INSULATED WIRE COPPER CONDUCTOR IN 20 MM DIA UPVC CONDUIT RECESSED IN THE WALL OR COLUMN ROOF ETC INCLUDING 1 MM2 SINGLE CORE PVC INSULATED WIRE AS ECC AS REQUIRED.	POINT	5		
498	SH7	PROVIDING AND FIXING 6/10 AMPS FLUSH TYPE SP PIANO SWITCH FITTED ON GIVEN SHEET OR ALL KIND OF BOARD INCLUDING CONNECTION AS REQUIRED.	EACH	5		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
499	SH7	PROVIDING AND FIXING FLAME PROOF FITTING 20 MM ET TAPPED ENTRY CI BODY GREY PAINTED WITH HEAVY GLASS CEMENTED TO FIXED RING STRONG WIRE GUARD AND LAMP HOLDER WITH TERMINAL CHAMBER SUITABLE FOR 60/100 W LAMP.	EACH	5		
500	SH7	PROVIDING AND FIXING DISTRIBUTION BOARD STEEL SHEET FLAME PROOF OF REQUIRED SIZE WITH HINGED COVER HARD DRAWN COPPER BUS BARS MOUNTED ON INSULATED FRAMES COMPLETE WITH MAIN AND BRANCH CABLES SOCKETS AND TERMINALS ENAMEL PAINT INSIDE AND BLACK OUTSIDE 500 V 200 A 4 BARS 400 MM HEIGHT.	EACH	5		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
501	SH7	PROVIDING AND FIXING 6 TO 32 AMPS SP MCCB FIXED ON EXISTING BOARD INCLUDING INTER-CONNECTION AS REQUIRED.	EACH	5		
502	SH7	PROVIDING AND FIXING 6 TO 63 AMPS DP MCCB FIXED ON EXISTING BOARD INCLUDING INTER-CONNECTION AS REQUIRED.	EACH	5		
503	SH7	PROVIDING AND FIXING EARTHING SET COMPLETE WITH 8 SWG COPPER CONDUCTOR SUPPLY AND FIXING.	EACH	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
504	SH8	WIRING FOR LIGHT OR FAN POINT WITH 1.5 mm2 SINGLE CORE, PVC INSULATED WIRE COPPER CONDUCTOR WIRE IN 20 mm (3/4in) DIA UPVC CONDUIT RECESSED IN THE WALL OR COLUMN, ROOF ETC. INCLUDING 1mm2 SINGLE CORE PVC INSULATED WIRE AS ECC AS REQUIRED.	POINTS	1600		
505	SH8	EXTENSION/ADDITIONAL WIRING FOR LIGHT, FAN OR CALL BELL POINT CONTROLLED WITH SAME SWITCH WITH 1.5mm2 PVC INSULATED WIRE IN 20 mm (3/4in) DIA UPVC CONDUIT RECESSED IN THE WALL OR COLUMN, INCLUDING 1mm2 PVC INSULATED WIRE AS ECC AS REQUIRED.	POINTS	1500		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
506	SH8	SUPPLY & DRAWING OF 2 x 2.5mm2, SINGLE CORE, PVC INSULATED WIRE INCLUDING 1mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED (P+N+E)	METERS	16000		
507	SH8	SUPPLY & DRAWING OF 2 x 4mm2, SINGLE CORE, PVC INSULATED WIRE INCLUDING 1.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	METERS	11000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
508	SH8	SUPPLY & DRAWING OF 2 x 6mm2, SINGLE CORE, PVC INSULATED WIRE INCLUDING 2.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	METERS	200		
509	SH8	WIRING FOR SUB-MAIN WITH 4 x 4mm2, PVC INSULATED WIRE 300/500VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 1.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	METERS	310		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
510	SH8	WIRING FOR SUB-MAIN WITH 4 x 6mm2, PVC INSULATED WIRE 300/500VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 2.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	METERS	3360		
511	SH8	WIRING FOR SUB-MAIN WITH 4x10mm2, PVC INSULATED WIRE 300/500VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 2.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	METERS	423		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
512	SH8	WIRING FOR SUB-MAIN WITH 4x16 mm2, PVC INSULATED WIRE 450/750VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 4mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ANY EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	METERS	200		
513	SH8	WIRING FOR SUB-MAIN WITH 4x25mm2, PVC INSULATED WIRE 450/750VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 4mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ANY EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	METERS	170		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
514	SH8	WIRING FOR SUB-MAIN WITH 4x35mm2, PVC INSULATED WIRE 450/750 VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 6mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ANY EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	METERS	150		
515	SH8	WIRING FOR SUB-MAIN WITH 4x50mm2, PVC INSULATED WIRE 450/750 VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 6mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ANY EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	METERS	100		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
516	SH8	SUPPLY & FIXING 25mm (1in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC FITTED ON SURFACE AS REQUIRED.	METERS	1200		
517	SH8	SUPPLY & FIXING 40mm (1 1/2in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC FITTED ON SURFACE AS REQUIRED.	METERS	1000		
518	SH8	SUPPLY & FIXING 50mm (2in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC FITTED ON SURFACE AS REQUIRED.	METERS	1000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
519	SH8	SUPPLY & FIXING 25mm (1in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC RECESSED IN THE WALL OR COLUMN AS REQUIRED.	METERS	5800		
520	SH8	SUPPLY & FIXING 40mm (1 1/2in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC RECESSED IN THE WALL OR COLUMN AS REQUIRED.	METERS	9000		
521	SH8	SUPPLY & FIXING 50mm (2in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC RECESSED IN THE IN THE WALL OR FLOOR AS REQUIRED.	METERS	9000		
522	SH8	PROVIDING & FIXING OF 50X50mm UPVC DUCT FITTED ON SURFACE AS REQUIRED BY SITE INCHARGE.	METERS	200		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
523	SH8	PROVIDING & FIXING OF 100X100mm UPVC DUCT FITTED ON SURFACE AS REQUIRED BY SITE INCHARGE.	METERS	200		
524	SH8	PROVIDING & FIXING OF 150X150mm UPVC DUCT FITTED ON SURFACE AS REQUIRED BY SITE INCHARGE.	METERS	200		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
525	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED / SURFACE MOUNTED PROJECT / PROFESSIONAL SERIES CEILING LIGHTS / DOWNLIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR, 100-110 LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWER FACTOR, 40000-50000 HOURS LIFECYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 11-13 WATTS	NOS	600		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
526	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED / SURFACE MOUNTED PROJECT / PROFESSIONAL SERIES CEILING LIGHTS / DOWNLIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR, 100-110 LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWER FACTOR, 40000-50000 HOURS LIFECYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 16-18 WATTS	NOS	1500		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
527	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED / SURFACE MOUNTED PROJECT / PROFESSIONAL SERIES CEILING LIGHTS / DOWNLIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR, 100-110 LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWER FACTOR, 40000-50000 HOURS LIFECYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 22-24 WATTS	NOS	150		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
528	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED / SURFACE MOUNTED PROJECT / PROFESSIONAL SERIES CEILING LIGHTS / DOWNLIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR, 100-110 LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWER FACTOR, 40000-50000 HOURS LIFECYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 30-34 WATTS	NOS	100		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
529	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED/ SURFACE MOUNTED LED PANEL LIGHT INCLUDING DRIVER, HAVING WARM/ NEUTRALWHITE /COOL WHITE COLOUR, 80-100LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWERFACTOR, 20000-25000 HOURS LIFE CYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 38-40 WATTS (2 x 2)	NOS	250		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
530	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF LED BATTEN LIGHTS INCLUDING DRIVER, HAVING WARM / NEUTRAL WHITE /COOL WHITE COLOUR, 90-100 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 INCHARGE. - 18-20 WATTS	NOS	250		
531	SH8	PROVIDING & INSTALLING 140 Cm (56in) SWEEP CEILING FAN WITH BLADES, CANOPY, STANDARD LENGTH OF DOWN ROD INCLUDING CONNECTION WITH 14.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED. (WITHOUT REGULATOR) PAK, ROYAL, GFC, YOUNAS, MILLAT.	NOS	250		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
532	SH8	PROVIDING & INSTALLING FALSE CEILING FAN (BOX FAN) WITH REMOTE, 24in (2 x 2) SIZE INCLUDING CONNECTIONS, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE (VOLDAM / PAK / ROYAL)	NOS	250		
533	SH8	PROVIDING & INSTALLING 45 Cm (18in) SWEEP WALL BRACKET FAN COMPLETE WITH BLADES, REGULATOR & PULLING CORD SWITCH, FITTED ON WALL OR COLUMN WITH GI CLIP INCLUDING CONNECTION AS REQUIRED. PAK, ROYAL, GFC, YOUNAS, MILLAT	NOS	50		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
534	SH8	PROVIDING & INSTALLING 30 Cm (12in) SWEEP, METALLIC BODY EXHAUST FAN COMPLETE WITH BLADES, MOTOR, ETC FITTED IN EXISTING HOLE INCLUDING CONNECTION WITH 14/.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED PAK, ROYAL, GFC, YOUNAS, MILLAT.	NOS	20		
535	SH8	PROVIDING & INSTALLING 60 Cm (24in) SWEEP, METALLIC BODY EXHAUST FAN COMPLETE WITH BLADES, MOTOR, ETC FIXED IN EXISTING HOLE INCLUDING CONNECTION WITH 14/.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED PAK, ROYAL, GFC, YOUNAS, MILLAT.	NOS	12		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
536	SH8	PROVIDING & INSTALLING 25 Cm (10in) SWEEP, PLASTIC BODY EXHAUST FAN COMPLETE WITH BLADES, MOTOR, ETC FIXED IN EXISTING HOLE INCLUDING CONNECTION WITH 14/.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED PAK, ROYAL, GFC, YOUNAS, MILLAT.	NOS	66		
537	SH8	PROVIDING & INSTALLING 30 Cm (12in) SWEEP, PLASTIC BODY EXHAUST FAN COMPLETE WITH BLADES, MOTOR, ETC FIXED IN EXISTING HOLE INCLUDING CONNECTION WITH 14/.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED PAK, ROYAL, GFC, YOUNAS, MILLAT.	NOS	60		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
538	SH8	PROVIDING & FIXING 10 AMPS POLYCARBONATE FLAME RETARDANT S.P SWITCH WITH FANCY REQUIRED GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	NOS	1900		
539	SH8	PROVIDING & FIXING 10 AMPS POLYCARBONATE FLAME RETARDANT 2-PIN SWITCH SOCKET UNIT (UNIVERSAL) WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	NOS	1000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
540	SH8	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)	NOS	400		
541	SH8	PROVIDING & FIXING 10/15 AMPS POLYCARBONATE FLAME RETARDANT 2-PIN SCHUKO SOCKET UNIT(GR-EARTH PIN) WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	NOS	40		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
542	SH8	PROVIDING & FIXING LIGHT DIMMER POLYCARBONATE FLAME RETARDANT WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	NOS	355		
543	SH8	PROVIDING & FIXING POLYCARBONATE FLAME RETARDANT DATA SOCKET UNIT 8 CONTACT CAT-5 WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	NOS	250		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
544	SH8	PROVIDING & FIXING POLYCARBONATE FLAME RETARDANT TELEPHONE SOCKET 4 CONTACT SINGLE 2 LINE WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	NOS	250		
545	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF ONLINE UPS, WITH STANDARD BACKUP OF 15-20 MINUTES, SUITABLE FOR OPERATION AT 220/240 VOLTS, 50HZ, SINGLE PHASE AC SUPPLY, INCLUDING CONNECTIONS, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 1 KVA	NOS	3		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
546	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF ONLINE UPS, WITH STANDARD BACKUP OF 15-20 MINUTES, SUITABLE FOR OPERATION AT 220/240 VOLTS, 50HZ, SINGLE PHASE AC SUPPLY, INCLUDING CONNECTIONS, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 2 KVA	NOS	3		
547	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF ONLINE UPS, WITH STANDARD BACKUP OF 15-20 MINUTES, SUITABLE FOR OPERATION AT 220/240 VOLTS, 50HZ, SINGLE PHASE AC SUPPLY, INCLUDING CONNECTIONS, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 3 KVA	NOS	6		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
548	SH8	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF ONLINE UPS, 10KVA CAPACITY, WITH STANDARD BACKUP OF 15-20 MINUTES, 3 PHASE IN AND 3 PHASE OUT, SUITABLE FOR OPERATION AT 380/400VOLTS, 50HZ, AC SUPPLY, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE.	NOS	5		
549	SH8	PROVIDING & FIXING CUBICAL TYPE METAL SHEET VERMIN PROTECTED LT PANEL BOARD AS PER DRAWING WITH LOCKING ARRANGEMENT DULY POWDER COATED I/C ALL FASTENING DEVICES AND ELECTRICAL WIRE/ LEADS FOR INTERNAL CONNECTION COMPLETE AS REQUIRED.	SFT	650		

GOVERNMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
550	SH8	PROVIDING & FIXING 6 TO 32 AMPS, S.P MCCB FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	NOS	950		
551	SH8	6-32 AMPS DP MCCB.	NOS	250		
552	SH8	PROVIDING & FIXING 10 TO 60 AMPS,(HIGH BREAKING CAPACITY) T.P MCCB FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	NOS	70		
553	SH8	PROVIDING & FIXING 75 TO 100 AMPS,(LOW BREAKING CAPACITY) T.P MCCB FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	NOS	30		
554	SH8	PROVIDING & FIXING 250 TO 400 AMPS,(HIGH BREAKING CAPACITY) T.P CIRCUIT BREAKER FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	NOS	20		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
555	SH8	PROVIDING & FIXING 400 TO 630 AMPS,(HIGH BREAKING CAPACITY) T.P CIRCUIT BREAKER FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	NOS	20		
556	SH8	PROVIDING & FIXING 400 TO 630 AMPS,(ADJUSTABLE- HIGH BREAKING CAPACITY) 4 POLE CIRCUIT BREAKER FIXED ON EXISTING BOARD, I/C INTERCONNECTION AS REQUIRED.	NOS	4		
557	SH8	PROVIDING & FIXING 630 TO 1200 AMPS, (ADJUSTABLE- HIGH BREAKING CAPACITY) 4 POLE CIRCUIT BREAKER FIXED ON EXISTING BOARD, I/C INTER CONNECTION AS REQUIRED.	NOS	4		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
558	SH8	PROVIDING & FIXING 10 TO 60 AMPS, 4 POLE, THREE PHASE BUS BAR STRIP FITTED IN GIVEN DISTRIBUTION BOARD COMPLETE WITH BUS BAR INSULATOR, SCREWS, BOLTS ETC AS REQUIRED.	NOS	55		
559	SH8	PROVIDING & FIXING 70 TO 100 AMPS, 4 POLE, THREE PHASE BUS BAR STRIP FITTED IN GIVEN DISTRIBUTION BOARD COMPLETE WITH BUS BAR INSULATOR, SCREWS, BOLTS ETC AS REQUIRED.	NOS	60		
560	SH8	PROVIDING & FIXING 160 TO 200 AMPS, 4 POLE, THREE PHASE BUS BAR STRIP FITTED IN GIVEN DISTRIBUTION BOARD COMPLETE WITH BUS BAR INSULATOR, SCREWS, BOLTS ETC AS REQUIRED.	NOS	20		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
561	SH8	PROVIDING & FIXING 400 AMPS, 4 POLE, THREE PHASE BUS BAR STRIP SET (STANDARD SIZE) FITTED IN SUITABLE SIZE METALLIC SHEET STEEL BOX WITH HINGED TYPE FRONT DOOR DULY PAINTED AND FIXED ON EXISTING BOARD I/C CONNECTION AS REQUIRED.	NOS	20		
562	SH8	PROVIDING & FIXING PILOT LAMP SET FITTED ON EXISTING BOARD I/C CONNECTION AS REQUIRED.	SETS	60		
563	SH8	VOLT METER 96 mm x 96 mm	NOS	60		
564	SH8	AMPERE METER 96 mm x 96 mm CT OPERATED 150 TO 1000 AMP	NOS	60		
565	SH8	CURRENT TRANSFORMER 200/5A	NOS	180		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
566	SH8	PROVIDING AND FIXING EARTHING SET WITH 2ftx2ftx1/4in COPPER PLATE BURIED IN THE GROUND AT A DEPTH OF 12 FEET OR LESS IF WATER COMES OUT FROM THE GROUND LEVEL (WITH SALT AND CHARCOAL, OR EARTHING CHEMICAL POWDER) ETC MAKING THE PIT 12 FEET DEEP BY EXCAVATION OF ALL TYPE OF SOIL (EXCEPT SOFT OR HARD ROCK) I/C FIXING OF 8SWG COPPER WIRE IN 1/2in G.I CONDUIT COMPLETE IN ALL RESPECT AS REQUIRED.	JOBS	60		
567	SH8	PROVIDING AND FIXING 1in DIAMETER 3FT LONG LIGHTING COPPER ROD WITH FIVE SPIKES AND BALLS ON ITS HEAD AS REQUIRED.	JOBS	100		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
568	SH8	PROVIDING AND FIXING 1-1/2in x 1/3in THICK COPPER STRIP WITH SUITABLE SADDLE AT 12in INTERVALS COMPLETE AS REQUIRED.	METERS	2000		
569	SH8	WIRING OF CCTV CAMERA WITH UTP CAT-6 IN EXISTING PVC CONDUIT/DUCT I/C CONNECTORS COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE (VOICE + DATA)	METERS	15000		
570	SH8	PROVIDING, FIXING AND INSTALLING POE GIGA BIT SWITCHES, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED. - 8 PORT POE SWITCH	JOBS	32		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
571	SH8	PROVIDING, FIXING AND INSTALLING POE GIGA BIT SWITCHES, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED. - 16 PORT POE SWITCH	JOBS	32		
572	SH8	PROVIDING, SUPPLYING, INSTALLATION, FITTING, FIXING AND COMMISSIONING OF 4 CORE SINGLE MODE FIBER OPTICS CABLE IN GIVEN EXISTING PVC CONDUIT, BOX CONDUIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE.	METERS	500		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
573	SH8	PROVIDING, SUPPLYING, INSTALLATION, FITTING, FIXING AND COMMISSIONING OF 8 CORE SINGLE MODE FIBER OPTICS CABLE IN GIVEN EXISTING PVC CONDUIT, BOX CONDUIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE	METERS	500		
574	SH8	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF MEDIA CONVERTER, USED FOR DATA CONVERSION FROM FIBER OPTIC TO CAT-6 ETHERNET CABLE, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE.	NOS	64		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
575	SH8	PROVIDING, SUPPLYING, INSTALLATION, FITTING, FIXING AND COMMISSIONING OF ODF WITH UP & DOWN FIBER CONNECTIVITY WITH REQUIRED PROGRAMMING AS NEEDED, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 8 PORT POE SWITCH	NOS	40		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
576	SH8	PROVIDING AND INSTALLATION OF ILLUMINATED SIGNBOARDS FOR LOUNGES IN BOTH URDU AND ENGLISH WORDS BEST MATERIAL (MS SHEET 18 SWG), LASER/FIBRE CUTTING OF LETTERS & SIGNS, ACRYLIC SHEET 4 mm YELLOW, POWDER COATING, COMPLETE 3D BENDING SCREWLESS SIGN, LED /SMD INJECTED MODULES, WATER PROOF POWER SUPPLY, 3D LIGHTING LATEST TYPE APPROVED COLOUR AND PATTERN, SINGLE AND DOUBLE FACED SIGNS COMPLETE IN ALL RESPECT AS PER INSTRUCTIONS OF ENGINEER INCHARGE.	SFT	250		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
577	SH8	PROVIDING AND INSTALLATION OF MS 3D ILLUMINATED SIGNBOARDS FABRICATED WITH MS CHANNEL 3/4in x 1in (18-20SWG) STRUCTURE INCLUDING MS LETTER HAVING 4in THICKNESS OF 18-20 SWG POWDER COATED APPROVED COLOR, PLASTIC / ACRYLIC LETTER SHEET 3mm PURE YELLOW ILLUMINATED WITH 400 WATTS, SMD / LED INJECTED MODULES 5730 / 5050 COOL WHITE COLOR WITH SUITABLE WATER PROOF WIRING / POWER SUPPLY. JOB ALSO INCLUDES INVISIBLE ANGLE IRON STRUCTURE 2inx2in OF 6mm WITH WELDED SUPPORT FITTED ON HEAVY GAUGE IRON STRUCTURE AS PER SITE REQUIREMENT COMPLETE IN ALL RESPECTS WITH TESTING AND AS PER INSTRUCTIONS OF ENGINEER IN-CHARGE	SFT	480		

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
578	SH8	PROVIDING & FIXING OF UNIVERSAL MOUNTED LED BASED EXIT SIGN IMPORTED MAKE WITH DOUBLE / SINGLE FACE CONFIGURATION, 220VAC, 02 WATTS, COMPLETE WITH RECHARGEABLE NI-CAD BATTERY I/C MAKING CONNECTION ETC. COMPLETE IN ALL RESPECTS AS PER SATISFACTION OF ENGINEER IN-CHARGE	NOS	31		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
579	SH8	PROVIDING & INSTALLATION OF 45 LITRES / HOUR CAPACITY WATER COOLER WITH BRAND NEW COMPRESSOR AND CONDENSOR, PRIME COPPER WRAPPED STEEL TANK AND ELECTRIC FAN MOTOR, PRIME GRADE INSULATION, STAINLESS STEEL FULLY DIE MADE BODY WITH BLACK COLOR ETC. COMPLETE IN ALL RESPECTS AS PER SATISFACTION OF ENGINEER IN-CHARGE	NOS	5		
580	SH8	PROVIDING & FIXING 12in x 4in MS CABLE TRAY PERFORATED 18 SWG COMPLETE WITH COVER OF 20 SWG INCLUDING PAINTING AND SUPPORTING SYSTEM	METERS	250		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
581	SH8	PROVIDING & FIXING OF 6in x 4in MS CABLE TRAY PERFORATED 18 SWG COMPLETE WITH COVER OF 20 SWG INCLUDING PAINTING AND SUPPORTING SYSTEM	METERS	150		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
582	SH8	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL 02 ZONE FIRE ALARM CONTROL PANEL SURFACE /RECESSED MOUNTING TYPE WITH FULL SWITCHING PROGRAMMING CAPABILITIES, SYSTEM SUITABLE OPERATION OF 230 VOLTS 50HZ WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER WITH BATTERY BACKUP COMPLIES WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED	JOBS	3		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
583	SH8	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL 04 ZONE FIRE ALARM CONTROL PANEL SURFACE /RECESSED MOUNTING TYPE WITH FULL SWITCHING PROGRAMMING CAPABILITIES, SYSTEM SUITABLE OPERATION OF 230 VOLTS 50HZ WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER WITH BATTERY BACKUP COMPLIES WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	JOBS	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
584	SH8	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL 08 ZONE FIRE ALARM CONTROL PANEL SURFACE /RECESSED MOUNTING TYPE WITH FULL SWITCHING PROGRAMMING CAPABILITIES, SYSTEM SUITABLE OPERATION OF 230 VOLTS 50HZ WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER WITH BATTERY BACKUP COMPLIES WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED	JOB	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
585	SH8	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL SMOKE DETECTOR, WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	JOBS	180		
586	SH8	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL HEAT DETECTOR, WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	JOBS	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
587	SH8	PROVIDING, FIXING, TESTING AND COMMISSIONING OF MANUAL CALL POINT BREAK GLASS TYPE WITH SPARE GLASS WITH ALLIED COMPONENTS WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING ETC APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	JOBS	50		
588	SH8	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL WALL SOUNDER WITH ALLIED COMPONENTS WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING ETC APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	JOBS	50		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
589	SH8	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL 6in BELL WITH ALLIED COMPONENTS WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING ETC APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	JOBS	50		
590	SH8	PROVIDING, FIXING, TWO CORE, 1.5mm, FIRE RESISTANT CABLE, MINIMUM FIRE RATING OF 2 HOUR, LAID IN CONDUIT (25mm DIA), COMPLETE IN ALL RESPECT, AS APPROVED BY THE ENGINEER IN-CHARGE.	METERS	3500		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
591	SH9	CONDUCTING ELECTRIC RESISTIVITY SURVEY AT DIFFERENT LOCATIONS TO CONFIGURE THE SUBSURFACE LITHOLOGIES/POSSIBILITY OF GROUND WATER SUITABLE FOR DRILLING TUBE WELL.	JOBS	4		
592	SH9	DRILLING OF TRIAL BORE IN SHINGLE GRAVEL AND ROCK INCLUDING SINKING AND WITH DRAWING OF CASING PIPES 6in - 10in DIA GROUND LEVEL TO 250 Rft	RFT	250		
593	SH9	EXCEEDING 250 Rft	RFT	170		
594	SH9	CONVERSION OF TRIAL BORE IN SHINGLE GRAVEL AND ROCK INCLUDING SINKING AND WITH DRAWING OF CASING PIPES 15in - 18in DIA GROUND LEVEL TO 250 Rft	RFT	250		
595	SH9	EXCEEDING 250 Rft	RFT	170		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
596	SH9	FURNISHING SAMPLES OF WATER FROM BORE HOLE.	SETS	2		
597	SH9	PROVIDING AND INSTALLING PVC BAIL/END PLUG IN TUBE WELL BORE HOLE 2 ft LONG & 10in DIA CLASS E COMPLETE AS REQUIRED.	NOS	2		
598	SH9	PROVIDING AND INSTALLING 10in DIA U PVC BLIND PIPE BSS CLASS E IN TUBE WELL BORE HOLE INCLUDING SOCKETS AND SALVENT ETC COMPLETE AS REQUIRED AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED	RFT	200		
599	SH9	PROVIDING AND INSTALLING 10in DIA U PVC STRAINER BSS CLASS E IN TUBE WELL BORE HOLE INCLUDING SOCKETS AND SALVENT ETC COMPLETE AS REQUIRED AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED	RFT	640		

PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
600	SH9	SHROUDING WITH GRADED PEA GRAVEL INTO THE SPACE BETWEEN BORE HOLE AND BLIND PIPE/STRAINER.	CFT	1105		
601	SH9	ELECTRIC/VIDEO LOGGING OF SUCCESSFUL BORE HOLE FOR PROPER PLACEMENT OF STRAINER/BLIND PIPE ETC COMPLETE AS REQUIRED.	JOBS	2		
602	SH9	TESTING DEVELOP AND STERILIZE OF TUBE WELL THROUGH COMPRESSOR UPTO 1.5 CUSECS DISCHARGE IN ACCORDANCE WITH APPROVED PROCEDURE UPTO DURATION OF 72 HOURS AS REQUIRED BY THE ENGINEER.	JOBS	2		
603	SH9	PROVIDING & LAYING IN SITU 1:2:4 CEMENT CONCRETE USING SCREEN GRADED BAJRI IN FOUNDATION AND PLINTH I/C FORM WORK, RODDING, COMPACTING, CURING ETC.	CFT	144		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
604	SH9	PROVIDING & FIXING CENTRIFUGAL PUMPING SET COMPLETE WITH AC 5 HP 2850/2900 RPM 380/400V 50 CYCLE 3 PHASE AC MOTOR WITH CENTRIFUGAL PUMP HAVING SUCTION & DISCHARGE 2 x 1 1/2in COUPLED ON A COMMON BASE PLATE AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	NO	1		
605	SH9	PROVIDING & FIXING CENTRIFUGAL PUMPING SET COMPLETE WITH AC 10 HP 2850/2900 RPM 380/400V 50 CYCLE 3 PHASE AC MOTOR WITH CENTRIFUGAL PUMP HAVING SUCTION & DISCHARGE 4in x 3in COUPLED ON A COMMON BASE PLATE AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	NO	1		

GOVERNMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
606	SH9	PROVIDING & FIXING CENTRIFUGAL PUMPING SET COMPLETE WITH AC 15 HP 2850/2900 RPM 380/400V 50 CYCLE 3 PHASE AC MOTOR WITH CENTRIFUGAL PUMP HAVING SUCTION & DISCHARGE 4in x 3in COUPLED ON A COMMON BASE PLATE AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	NO	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
607	SH9	PROVIDING & FIXING SUBMERSIBLE PUMPING SET COMPRISING OF SUBMERSIBLE PUMP WITH 5 HP 2850/2900 RPM, 3 PHASE, 400 V, 50 HZ, AC ELECTRIC MOTOR CAPABLE TO DISCHARGE 1800-2500 US GPH (GALLONS PER HOUR) OF CLEAR WATER AT HEAD OF 250 TO 300 ft, INCLUDING ERRECTION CLAMP, CABLE CLAMP, NON RETURN VALVE, MOTOR CONTROL UNIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	NO	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
608	SH9	PROVIDING & FIXING SUBMERSIBLE PUMPING SET COMPRISING OF SUBMERSIBLE PUMP WITH 10 HP 2850/2900 RPM, 3 PHASE, 400 V, 50 HZ, AC ELECTRIC MOTOR CAPABLE TO DISCHARGE 1800-2500 US GPH (GALLONS PER HOUR) OF CLEAR WATER AT HEAD OF 250 TO 300 ft, INCLUDING ERRECTION CLAMP, CABLE CLAMP, NON RETURN VALVE, MOTOR CONTROL UNIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	NO	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
609	SH9	PROVIDING & FIXING SUBMERSIBLE PUMPING SET COMPRISING OF SUBMERSIBLE PUMP WITH 15 HP 2850/2900 RPM, 3 PHASE, 400 V, 50 HZ, AC ELECTRIC MOTOR CAPABLE TO DISCHARGE 1800-2500 US GPH (GALLONS PER HOUR) OF CLEAR WATER AT HEAD OF 250 TO 300 ft, INCLUDING ERRECTION CLAMP, CABLE CLAMP, NON RETURN VALVE, MOTOR CONTROL UNIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	NO	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
610	SH9	PROVIDING & FIXING SUBMERSIBLE PUMPING SET (KSB/GRUNDFOS/HMA) COMPRISING OF SUBMERSIBLE PUMP WITH 3 HP 2850/2900 RPM, 3 PHASE, 400 V, 50 HZ, AC ELECTRIC MOTOR CAPABLE TO DISCHARGE 800-900 US GPH (GALLONS PER HOUR) OF CLEAR WATER AT HEAD OF 250 TO 320 ft, INCLUDING ERRECTION CLAMP, CABLE CLAMP, NON RETURN VALVE, MOTOR CONTROL UNIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	NO	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
611	SH9	PROVIDING & FIXING MANUAL OPERATED STAR DELTA STARTER SUITABLE FOR 3-10 HP AC.3 PHASE 50 CYCLE SUPPLY UP TO 12/25 AMPS TRIP RATING ON A PREPARED BOARD.	NOS	6		
612	SH9	WIRING FOR SUB-MAIN WITH 3 CORE, 6 mm2, STRANDED COPPER CONDUCTOR, PVC INSULATED & PVC SHEATHED CIRCULAR / FLAT CABLE IN EXISTING CONDUIT FITTED ON SURFACE / UNDERGROUND AS REQUIRED.	METERS	250		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
613	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE WALL MOUNTED AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 0.9 TON - 1.0 TON (10800 BTU - 12000 BTU)	JOBS	50		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
614	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE WALL MOUNTED AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 1.5 TON - 1.6 TON (18000 BTU - 19500 BTU)	JOBS	150		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
615	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE WALL MOUNTED AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 1.9 TON - 2 TON (22800 BTU - 24000 BTU)	JOBS	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
616	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE WALL MOUNTED AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 2.2 TON - 2.5 TON (26000 BTU - 30000 BTU)	JOBS	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
617	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF CASSETTE TYPE AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 1.9 TON - 2 TON (22800 BTU - 24000 BTU)	JOBS	30		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
618	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF CASSETTE TYPE AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 3.8 TON - 4.0 TON (45600 BTU - 48000 BTU)	JOBS	25		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
619	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF FLOOR STANDING AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 2 TON - 2.3 TON (24000 BTU - 28000 BTU)	JOBS	10		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
620	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF FLOOR STANDING AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 3.8 TON - 4.0 TON (45600 BTU - 48000 BTU)	JOBS	20		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
621	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF REFRIGERANT COPPER PIPE, 22 GAUGE WITH ALL TYPE OF FITTINGS LIKE, ELBOW, CLAMPING, AERO FLEX INSULATION, WRAPPING TAPE, ETC COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 1/4in	FTS	2000		
622	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF REFRIGERANT COPPER PIPE, 22 GAUGE WITH ALL TYPE OF FITTINGS LIKE, ELBOW, CLAMPING, AERO FLEX INSULATION, WRAPPING TAPE, ETC COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 1/2in	FTS	2000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
623	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF REFRIGERANT COPPER PIPE, 22 GAUGE WITH ALL TYPE OF FITTINGS LIKE, ELBOW, CLAMPING, AERO FLEX INSULATION, WRAPPING TAPE, ETC COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 3/8in	FTS	2000		
624	SH9	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF REFRIGERANT COPPER PIPE, 22 GAUGE WITH ALL TYPE OF FITTINGS LIKE, ELBOW, CLAMPING, AERO FLEX INSULATION, WRAPPING TAPE, ETC COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 5/8in	FTS	2000		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
625	SH9	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF STANDBY 1500 RPM, DIESEL GENERATING SET, SUITABLE FOR 400/415 VOLTS, 3-PHASE, 50HZ, AC SUPPLY, WITH CANOPY, INCLUDING CONTROL WIRING, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 440 KVA (400 KVA PRIME RATINGS)	JOB	1		
626	SH9	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF STANDBY 1500 RPM, DIESEL GENERATING SET, SUITABLE FOR 400/415 VOLTS, 3-PHASE, 50HZ, AC SUPPLY, WITH CANOPY, INCLUDING CONTROL WIRING, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 700 KVA (640 KVA PRIME RATINGS)	JOBS	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
627	SH9	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF 400 VOLTS, 3-PHASE, 3 POLE, ATS PANEL, WITH MOR, DULY POWDER COATED, PAINTED, HAVING MAGNETIC CONTACTOR, MECHANICAL INTERLOCKING, EMERGENCY STOP SYSTEM, ATS MODULE, BATTERY CHARGER, AUXILIARY RELAYS, VOLTMETER, AMPERE METER, FREQUENCY METER, SELECTOR SWITCH, INDICATION LIGHTS, COPPER BUS BAR, TIMERS, INCLUDING WIRING, LOCKING ARRANGEMENTS, ETC, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 400 KVA	JOB	1		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
628	SH9	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF 400 VOLTS, 3-PHASE, 3 POLE, ATS PANEL, WITH MOR, DULY POWDER COATED, PAINTED, HAVING MAGNETIC CONTACTOR, MECHANICAL INTERLOCKING, EMERGENCY STOP SYSTEM, ATS MODULE, BATTERY CHARGER, AUXILIARY RELAYS, VOLTMETER, AMPERE METER, FREQUENCY METER, SELECTOR SWITCH, INDICATION LIGHTS, COPPER BUS BAR, TIMERS, INCLUDING WIRING, LOCKING ARRANGEMENTS, ETC, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 600 KVA	JOBS	2		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
629	SH9	PROVIDING & FIXING 4 CORE, PVC INSULATED & PVC SHEATHED, 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR, UNARMOURED, L.T CABLE FIXED ON SURFACE WITH HEAVY GAUGE GI FLAT STRIP SADDLE AT SUITABLE DISTANCE AS PER PAK. P.W.D SPECIFICATION AS REQUIRED. - 185 mm2	METERS	310		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
630	SH9	PROVIDING & FIXING 4 CORE, PVC INSULATED & PVC SHEATHED, 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR, UNARMOURED, L.T CABLE FIXED ON SURFACE WITH HEAVY GAUGE GI FLAT STRIP SADDLE AT SUITABLE DISTANCE AS PER PAK. P.W.D SPECIFICATION AS REQUIRED. - 240 mm2	METERS	200		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
631	SH9	PROVIDING & FIXING 4 CORE, PVC INSULATED & PVC SHEATHED, 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR, UNARMOURED, L.T CABLE FIXED ON SURFACE WITH HEAVY GAUGE GI FLAT STRIP SADDLE AT SUITABLE DISTANCE AS PER PAK. P.W.D SPECIFICATION AS REQUIRED. - 300 mm2	METERS	180		
632	SH9	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 16 mm2 TO 25 mm2	NOS	750		

PUBLIC PROCUREMENT REGULATORY AUTHORITY PPRA EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
633	SH9	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 35 mm2 TO 50 mm2	NOS	30		
634	SH9	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 70 mm2 TO 95 mm2	NOS	30		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
635	SH9	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 120 mm2 TO 150 mm2	NOS	20		
636	SH9	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 185 mm2 TO 240 mm2	NOS	20		

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
637	SH9	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 300 mm2	NOS	14		
638	SH9	VENTILATION SYSTEM: EXPLOSION-PROOF EXHAUST FANS AND AIR VENTS (UAV BUNKERS) COMPLETE AS PER SPECIFICATIONS AND DIRECTIONS OF THE ENGINEER.	NOS	4		
639	SH9	DEHUMIDIFIER: TO MAINTAIN LOW HUMIDITY INSIDE BUNKER (UAV BUNKERS) COMPLETE AS PER SPECIFICATIONS AND DIRECTIONS OF THE ENGINEER.	NOS	2		
640	SH9	FIRE SUPPRESSION: FIRE EXTINGUISHERS (DCP) AS PER SAFETY CODES (UAV BUNKERS)	NOS	4		

PPRA EPADS

Sr. No	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
641		TOTAL ESTIMATED COST	JOB	1		7343223931
					GRAND TOTAL:	Rs7,343,223,931.00

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Scope of Work

The contractor shall execute all procurement, installation, testing, and commissioning works across the following nine sub-heads:

1. Rehabilitation of Airside Pavements (SH 1)

Earthworks and Sub Base: Demolishing existing bituminous pavements, stripping topsoil, compacting natural subgrade, and laying granular sub base reinforced with biaxial HDPE geogrids and geocells.

Paving and Markings: Constructing polymer modified asphalt base and wearing courses, laying PQC for taxiway links and aprons, sealing rigid joints with jet fuel resistant sealant, installing airside drainage pipes, and applying FAA compliant reflective airfield markings.

2. Access Road (SH 2)

Roadway Construction: Clearing the alignment, constructing compacted borrow embankments, laying aggregate base courses, and paving with plant mixed asphaltic wearing course.

Drainage and Furniture: Building reinforced concrete roadside drains and pipe culverts, applying thermoplastic road markings, and installing reflective caution signboards.

3. Ancillary Civil Infrastructure (SH 3)

Structural and Architectural Works: Constructing Grade 60 steel reinforced concrete foundations, frames, roof slabs, and overhead water tanks, alongside brick masonry, plastering, terrazzo and marble flooring, gypsum ceilings, Deodar wood doors, uPVC or aluminium windows, and stainless steel railings.

Plumbing and Sewerage: Fitting washroom sanitary ware, kitchen cabinetry, grease traps, brick manholes, uPVC waste stacks, and galvanized iron water mains.

4. Renovation of Passenger Terminal Building (SH 4)

Refurbishment and Finishes: Stripping damaged tiles, plaster, and paint, re securing door frames, applying fresh plaster and non slip tiling, repainting exteriors, and installing gypsum, fiberglass, Plaster of Paris, and MDF false ceilings.

Glazing and Accessibility: Fitting anodized aluminium doors and tinted glass sliding windows, upgrading washrooms, and constructing a concrete wheelchair ramp with stainless steel handrails.

5. Public Health Engineering (SH 5)

Tube Wells and Pumping: Drilling deep boreholes using reverse rotary percussion methods, installing mild steel blind pipes and stainless steel V wire screens, gravel shrouding, sterilizing wells, and commissioning high head submersible pumps with chlorination units.

Water and Sewerage Networks: Trenching and laying PE 100, PPR, and galvanized iron water distribution lines with isolation valves, alongside constructing masonry manholes, soakage pits, and reinforced concrete sewer lines.

6. Security Infrastructure (SH 6)

UAV Bunkers and Hardening: Excavating and constructing reinforced concrete semi underground bunkers with bituminous waterproofing, camouflage earth cover, and blast resistant steel doors.

Perimeter Barriers and Access: Deploying and sand filling UV stabilized HESCO defense barriers, erecting galvanized wire mesh, barbed wire, and concertina razor wire fencing, installing a motorized heavy duty steel taxiway gate, and laying hydraulically compressed concrete pavers.

7. External Electrical Infrastructure (SH 7)

Power Distribution: Trenching and laying 11 kV XLPE armored cables and underground low tension copper cables, and commissioning step down transformers and switchgear.

Airfield Lighting and Solar Plant: Installing ICAO and FAA compliant LED inset and elevated approach, threshold, runway, and taxiway lights, a PAPI system, Constant Current Regulators, isolating transformers, illuminated guidance signs, street and high mast floodlighting, and a 500 kW solar PV plant with hybrid inverters.

8. Building Electrification and Life Safety (SH 8)

Internal Power and Lighting: Installing concealed uPVC conduits, copper wiring, flame retardant switches and sockets, vermin proof distribution boards, copper plate earthing, lightning protection, online UPS systems, LED lighting fixtures, fans, and illuminated lounge signage.

IT, CCTV, and Fire Safety: Deploying CAT 6 cabling, single mode fiber optic backbones, PoE switches, conventional multi zone fire alarm panels with fire resistant cabling, smoke and heat detectors, call points, sounders, and battery backed exit signs.

9. Mechanical Works (SH 9)

Groundwater and Pumping Systems: Conducting electric resistivity surveys, drilling and video logging production boreholes, installing uPVC casing and strainers, and commissioning centrifugal and submersible pump sets.

HVAC and Standby Generation: Installing wall mounted split, ceiling cassette, and floor standing air conditioners with insulated copper piping, equipping UAV bunkers with explosion proof exhaust fans, dehumidifiers, and fire extinguishers, and commissioning canopy type standby diesel generators with Automatic Transfer Switch panels.

Brief Description

The **Rehabilitation of Dalbandin Airport**, commissioned by the **Pakistan Airports Authority (PAA)** in Dalbandin, Balochistan, is a comprehensive infrastructure modernization and security upgrade initiative. Designed to restore full operational readiness, elevate aviation safety, and harden perimeter defenses, the project integrates nine civil, electrical, mechanical, and public health engineering packages.

Core airside works involve the demolition and full depth reconstruction of runways, taxiways, and aprons utilizing Asphalt Concrete, and Pavement Quality Concrete (PQC) compliant with ICAO and FAA standards. Landside improvements include constructing a paved access road with drainage culverts, renovating the Passenger Terminal Building (PTB) with accessibility upgrades, and erecting reinforced ancillary support buildings. A central focus of the project is tactical and perimeter security hardening, featuring HESCO defense barriers, concertina fencing, heavy duty concrete paving, and semi underground, blast resistant Unmanned Aerial Vehicle (UAV) bunkers.

Supporting utility and electromechanical packages cover deep tube well boring, potable water supply and sewerage networks, 11 kV high tension and low tension power distribution, an ICAO Annex 14 compliant LED Airfield Ground Lighting (AGL) system, a 500 kW grid tied solar power plant, standby diesel generators, HVAC installations, and conventional fire detection and life safety systems. Together, these upgrades will establish Dalbandin Airport as a resilient, modern, and secure regional aviation facility.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Price Schedule

For Individual Jobs

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

For Lots

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

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

General Conditions of Contract

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

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

International Federation of Consulting Engineers (FIDIC) FIDIC
Bookshop – Box- 311 – CH – 1215 Geneva 15, Switzerland
Fax: +41 22 799 49 054
Telephone: **+41 22 568 0500**
E-mail: **fidic@fidic.org**
Website: www.fidic.org
FIDIC code: ISBN13: 978-2-88432-084-9

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Special Conditions of Contract

PARTICULAR CONDITIONS OF CONTRACT (PCC)

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

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

PART A - Contract Data

Sub-Clause 1.1.27
Defects Notification Period (DNP): **365** Days

Sub-Clause 1.1.31
Employer's name & address: **Quetta Airport (Pakistan Airports Authority (PAA)), Secretary Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province).**

Sub-Clause 1.1.35
Engineer's name & address: Abdul Mohaymin Sahito, DDS Civil HQ

HQ, Terminal I, JIAP, Karachi

Sub-Clause 1.1.84
Time for Completion: **730** days for whole of the works

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

Sub-Clause 1.3 (d)
Address of Empoyer for Communications: **Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province).**
Address of Engineer for Communications:

HQ, Terminal I, JIAP, Karachi

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

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

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

Sub-Clause 2.4
Employer's financial arrangements:

Funded by Provincial Government

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

Sub-Clause 4.2
Performance Security (as percentage of the Accepted Contract Amount in Currencies): 0%
Form of Performance Guarantee: **Nil**

Sub-Clause 4.2.1
List of Insurance Companies:

Insurance Company in Pakistan having at least "AA" rating from PACRA

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

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

Sub-Clause 5.1 (a)
Maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount): **30** %

Sub-Clause 5.1 (b)
Parts of the Works for which subcontracting is not permitted: 40

None

Sub-Clause 6.5
Normal working hours on the Site: **09**

Sub-Clause 8.3
Number of additional paper copies of programmes: **06**

Sub-Clause 8.8 & 14.15(b)
Delay Damages payable for each day of delay **0.01**% of the Accepted Contract Amountfor delay in completion of whole of the Works

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

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

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

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

(25%)

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

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

Insurance Company in Pakistan having at least "AA" rating from PACRA

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

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

Sub-Clause 14.3(b)
Number of additional paper copies of Statements: **06**

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

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

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

Imported Plants and Materials

Deleted. Not Applicable.

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

Plants and Materials Onsite

Plant and Non-Perishable Materials for payment shall include: 1. Steel Reinforcement 2. Tile, Marble and Granite 3. Electric Cables

Sub-Clause 14.6.2
Minimum amount of Interim Payment Certificate (IPC): **Yes**
The Minimum Amount IPC is 150,000,000
[Employer to give value not exceeding one fifth of the average expected value of Interim Payment Certificate]

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

Sub-Clause 14.7b(i)
Period for the Employer to make interim payments to the Contractor under Sub-Clause 14.6: **28** days

Sub-Clause 14.7b(ii)
Period for the Employer to make interim payments to the Contractor under Sub-Clause 14.13 (Final Payment)**: 56** days

Sub-Clause 14.7(c)
Period for the Employer to make final payment to the Contractor**: 56** days

Sub-Clause 14.8
Financing charges for delayed payment Local Currency (PKR):
6-Month KIBOR (Offer) +3% per annum.
Foreign Currency:
USD
6-Month SOFR (Secured Overnight Financing Rate for USD) +1% per annum.

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

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

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

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

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

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

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

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

Sub-Clause 19.1
Permitted deductible limits:
i) insurance required for the Works: **Ten percent (10%) of loss amount on each & every loss**
ii) insurance required for Goods: **Nil**
iii) insurance required for liability for breach of professional duty: **Nil**
iv) insurance required against liability for fitness for purpose (if any is required): **Nil**

v) insurance required for injury to persons and damage to property: **Nil**
vi) insurance required for injury to employees: **Nil**
vii) other insurances required by Laws and by local practice : **Nil**

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

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

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

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

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

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

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

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

Sub-Clause 21.1
The DAAB shall comprise 3
[insert either “a sole Member” or “Three Members”]
[For a Contract estimated to cost above PKR 2.5billion, the DAAB shall comprise of three members. For a Contract estimated to cost between PKR1billion and PKR2.5billion, the DAAB may comprise of three members or a sole member. For a Contract estimated to cost less than PKR1billion, a sole member is recommended.]

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

Sole Member

-

-

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

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

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

Particular Conditions

PartB - Special Provisions

1.1 Definitions

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

1.2 Interpretation

"and" is deleted from the end of sub-paragraph (i) and added at the end of sub-paragraph (j).
Sub-paragraph (k) is added:
"(k) The word "tender" is synonymous with "bid" the word tenderer with "bidder", the words "tender documents" with "bidding documents" and "Schedule of Prices" with "Bill of Quantities", as applicable."
1.5 Priority of Documents The documents listed at (a) through (k) of this Sub-Clause are deleted and substituted with the following:
(a) the Contract Agreement;
(b) the Letter of Acceptance;
(c) the Letter of Bid;

(d) the Particular Conditions Part A - Contract Data;
(e) the Particular Conditions Part B - SpecialProvisions;
(f) the General Conditions;
(g) the Specification Part A - SpecificProvisions;
(h) the Specification Part B- Technical Provisions;
(i) the Drawings;
(j) the completed Schedules to Bid includingBillof Quantities;
(k) the JV Undertaking (if the Contractor is a JV); and
(l) any other documents forming part of the Contract.
The addenda/corrigenda, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

1.6 Contract Agreement

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

3.1 The Engineer

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

3.2 Engineer’s Duties and Authority

The Engineer shall obtain the consent in writing of the Employer before taking action under the following Sub-Clauses of these Conditions:
(a) Consenting to the subcontracting of any part of the Works under Sub-Clause 5.1 [Subcontractors]
(b) Any action under Sub-Clauses 8.9 [Employer’s Suspension] and 8.12 [Prolonged Suspension]
(c) Issuance of “Taking Over Certificate” under Sub-Clause 10.1 [Taking Over the Works and Sections].
(d) Issuing the “Performance Certificate” under Sub-Clause 11.9 [Performance Certificate].
(e) Sub-Clause 13.1 [Right to Vary]: instructing a Variation, except;
(i) in an emergency situation as determined by the Engineer, or
(ii) if such a Variation would increase the Accepted Contract Amount by less than the percentage specified in the Contract Data.
(f) Sub-Clause 13.3 [Variation Procedure]: approving a proposal for Variation submitted by the Contractor in accordance with Sub-Clause 13.3.2 [Variation by Request for Proposal] or 13.2 [Value Engineering].
(g) Certifying release of second half of the Retention Money under Sub-Clause 14.9 [Release of Retention Money].
(h) Issuing Final Payment Certificate under Sub-Clause 14.13 [Issue of FPC].
(i)

Issue of FPC Sub Clauses

-

*[insert Sub-Clause number (not Sub-Clause 3.7 [Agreement or Determination]
Any such requirement shall not be applied to any action by the Engineer under Sub-Clause 3.7 [Agreement or Determination], as stated in Sub-Clause 3.2 [Engineer’s Duties and Authority] of the General Conditions.
Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Employer, with

any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Employer.
Following is added after the words “the Employer’s consent is required” in 4th paragraph:
“stating that the Employer’s consent has been obtained for that specified authority”

4.2 Performance Security

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

4.3 Contractor’s Representative

In second paragraphthe text “professional engineer as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976) (having temporary licence in case of foreign engineer under Section 12 of the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)” are added after the words “qualified, experienced”.
In the 3rd paragraph the words “28 days” are substituted by “14 days”. In 2nd line of 4thparagraph the text “or appoint a replacement” is substituted by “except appointment of a suitable temporary replacement is deployed at the Site”

4.4 Contractor’s Documents

4.4.2 As-Built Records
First paragraph is deleted and the text in the last paragraph is substituted with the following:
“The Contractor shall furnish to the Engineer 6 copies, one reproducible and one electronic copy(provided the Engineer has made available to the Contractor editable form of the Drawings)of all Drawings amended to conform to the Works as built.In case the Engineer does not make available to the Contractor editable form of the Drawings, the Contractor shall furnish to the Engineer as-built data for incorporation in the Drawings. Upon receipt of PDF versions of the as-built drawings prepared by the Engineer, the Contractor shall furnish to the Engineer 6copies and one reproducible of these Drawings.
The price of such Drawings shall be deemed to be included in the Contract Price.”
Following Sub-Clause is added:
4.4.4 ShopDrawings
The Contractor shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this Contract as per provision of relevant Sub-Clause of the Contract.
Review and approval by the Engineer shall not exceed 21 days and be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and the Engineer’s review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

4.8 Health and Safety Obligations

The following text is added at the end ofthis Sub-Clause:
In the event of work being carried out outside the normal working hours and in the event of work being carried out at night, the Contractor shall at his own cost, provide and maintain such good and sufficient light as will enable the work to proceed satisfactorily and without danger. The approaches to the Site and the Works where the night work is being carried out shall be sufficiently lighted. All arrangement adopted for such lighting shall be to the satisfaction of the Engineer.

4.20 Progress Reports

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

5.1 Subcontractors

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

5.2 Nominated Subcontractors

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

6.1 Engagement of Staff and Labour

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

6.7 Health and Safety of Personnel

The existing text is substituted with the following:
"In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorize or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose. The Contractor shall also provide all other medical services and appoint a health and safety officer at Site if stated in the Specifications. In case of any fatality or serious accident, the Contractor shall, in addition, notify the

Engineer immediately by the quickest available means."

6.8 Contractor's Superintendence

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

6.12 Key Personnel

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

6.13 Foreign Personnel

The Contractor may bring in to the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required residence visas and work permits. The Employer will, if requested by the Contractor, use all reasonable endeavours in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national, or government permission required for bringing in the Contractor's personnel.
The Contractor shall be responsible for the return of these personnel to the place where they were recruited or to their domicile. In the event of the death in the Country of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

6.14 Supply of Foodstuffs

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

6.15 Supply of Water

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

6.16 Measures against Insect and Pest Nuisance

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

6.17 Alcoholic Liquor or Drugs

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

or disposal thereto by Contractor's Personnel.

6.18 Arms and Ammunition

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

6.19 Festivals and Religious Customs

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

6.20 Funeral Arrangements

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

6.21 Forced Labour

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

6.22 Child Labour

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

6.23 Employment Records of Workers

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

6.24 Workers' Organizations

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

6.25 Non-Discrimination and Equal Opportunity

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

6.26 Epidemics

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

7.7 Ownership of Plant and Materials

The following is added before the first paragraph:
“Except as otherwise provided in the Contract,”
The following is added at the end of the Sub-Clause:
"No Plant and/or Materials that is the property of the Employer shallbe removed from the Site. If it becomes necessary to:
(i) remove any item of such Plant from the Site for the purposesof repair, the Contractor shall give a Notice, with reasons, tothe Engineer requesting consent to remove the defective ordamaged item off the Site. This Notice shall clearly identifythe item of defective or damaged Plant, and shall give detailsof: the defect or damage to be repaired; the place to whichdefective or damaged item of Plant is to be taken for repair;the transportation to be used (and insurance cover for suchtransportation); the proposed inspections and testing off theSite; and the planned duration required before the repaireditem of Plant shall be returned to the Site. The Contractorshall also provide any further details that the Employer mayreasonably require; or
(ii) replace any item(s) of such Plant and/or Materials, theContractor shall give a Notice, with reasons, to the Engineerclearly identifying the item(s) of Plant and/or Materials to bereplaced, and giving details of the due date of delivery tothe Site of the replacement item(s).
Where any item of Plant and/or Materials has become the propertyof the Employer under this Sub-Clause before it has been deliveredto the Site, the Contractor shall ensure that such an item is notmoved except for its delivery to the Site.
The Contractor shall indemnify and hold the Employer harmlessagainst and from the consequences of any defect in title orencumbrance or charge (except any reasonable restrictionarising from the intellectual property rights of the manufacturer orproducer) on any item of Plant and/or Materials that has becomethe property of the Employer under this Sub-Clause."
The following Sub-Clause7.9 is added after Sub Clause 7.8:

7.9 Use of Pakistani Materials and Services

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

8.1 Commencement of Works

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

8.5 Extension of Time for Completion

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

8.14 Incentives For Early Completion

If Contract Data does not state applicability of incentives for early completion, this Sub-Clause shall not apply.

The Contractor shall be entitled subject to Sub-Clause 20.2 [Claims for Payment and/or EOT] to bonus payment if the Works and/or each Section is completed earlier than the Time for Completion for the Works or Section (as the case may be). The amount of bonus for early completion of the Works and/or each Section shall be upto a limit and at a rate to 50% of the relevant limit and rate of delay damages prescribed in Contract Data and shall be paid for every day which shall elapse between the relevant Date of Completion of the Works or Section and the relevant Time for Completion.
For the purposes of calculating any bonus payment, the applicableTime for Completion stated in the Contract Data is fixed and noadjustments of this time by reason of granting an EOT will beallowed.
The following Sub-Clause 11.12 is added after Sub-Clause 11.11:

11.12 Supervisory Assistance During DNP

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

12.2 Method of Measurement

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

12.3 Valuation of the Works

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

13.4 Provisional Sums

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

13.6 Adjustments for Changes in Laws

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

14.1 The Contract Price

The following is added at the end of the Sub-Clause:
“Notwithstanding the provisions of subparagraph (b), Contractor's Equipment, including essential spare parts, imported by the Contractor for the sole purpose of executing the Contract shall be temporarily exempt from the payment of import duties and taxes upon initial importation, provided the Contractor shall post with the customs authorities at the port of entry an approved re-export bond or bank guarantee, valid until the Time

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

14.2 Advance Payment

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

14.6 Issue of IPC

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

14.7 Payment

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

14.8 Delayed Payment

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

14.9 Release of Retention Money

The following is added at the end of Sub-Clause 14.9:
"Unless otherwise stated in the Contract, when the Taking-Over Certificate has been issued for the Works and the first half of the Retention Money has been certified for payment by the Engineer, the Contractor shall be entitled to substitute a guarantee, in the form annexed to the Particular Conditions or in another form approved by the Employer and issued by a schedule bank selected by the Contractor, for the second half of

the Retention Money. The Contractor shall ensure that the guarantee is in the amounts and currencies of the second half of the Retention Money and is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects, as specified for the Performance Security. On receipt by the Employer of the required guarantee, the Engineer shall certify, and the Employer shall pay the second half of the Retention Money. The release of the second half of the Retention Money against a guarantee shall then be in lieu of the release after the latest of the expiry dates of the Defects Notification Periods. The Employer shall return the guarantee to the Contractor within 21 days after receiving a copy of the Performance Certificate.

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

15.2 Termination for Contractor's Default

15.2.1 Notice
Following text is added at the end of sub-paragraph (h) of this Sub-Clause:
"For the purposes of this Contract, corrupt and fraudulent practices have been defined in Public Procurement Rules 2026."
15.2.3 After Termination
The word "and" at the end of sub-paragraph (ii) of paragraph (b) is deleted the following paragraph is added after sub-paragraph (iii):
"(iv) all Employer-Supplied Materials and/or Employer's Equipment madeavailable to the Contractor in accordance with Sub-Clause 2.6 [Employer-Supplied Materials and Employer's Equipment], and"

15.4 Payment after Termination

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

16.2 Termination by Contractor

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

16.3 Contractor's Obligations After Termination

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

17.1 Responsibility for Care of the Works

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

17.7 Use of Employer’s Accommodation/Facilities

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

18.1 Exceptional Events

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

18.4 Consequences of an Exceptional Event

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

18.5 Optional Termination

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

19.1 General Requirements

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

19.2 Insurance to be provided by the Contractor

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

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

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

21.6 Arbitration

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

22 Custom Duty

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

23 Taxes

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

24 Integrity Part

If it is found and established at any stage that the Contractor or any of his Subcontractors, agents or servants have violated or involved in violation of the Integrity Pact signed by the Contractor then the Employer shall be entitled to :
(a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder’s fee or kickback given by the Contractor or any of his Subcontractors, agent or servants;
(b) terminate the Contract; and
(c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agent or servants.
The termination under sub-paragraph(b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clause 15.1 to 15.4 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the Employer under sub-paragraph(a) and (c) of this Sub-Clause.
Appendix General Conditions of Dispute Avoidance/Adjudication Agreement

12 Disputes Under DAAB Agreement

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

Bid Securing Declaration

FORM OF BID SECURING DECLARATION

Date:
No.:
Alternative No.: ***P202140***

To: **Quetta Airport (Pakistan Airports Authority (PAA)), Secretary Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (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:

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

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

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

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

Contract Form

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the _____ day of _____ (month) 20_____ between **Quetta Airport (Pakistan Airports Authority (PAA)), Secretary Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province).** (hereinafter called the "Employer") of the one part and _____ (hereinafter called the "Contractor") of the other part.

WHEREAS the Employer is desirous that certain Works, viz., **Operationalization of Dalbandin Airport (Rehabilitation of Airside Pavements, Security Fence, PTB and Allied Works) (*P202140*)** should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents, in the order of priority, after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement:

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

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

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

Signature of the Contactor Signature of Employer

(Seal) (Seal)

Signed, Sealed and Delivered in the presence of:

Witness Witness

(Name, Title and Address) (Name, Title and Address)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

DAAB Agreement

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

Name and details of the Contract Operationalization of Dalbandin Airport (Rehabilitation of Airside Pavements, Security Fence, PTB and Allied Works)

_____

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

Name and contact details of the Employer **Quetta Airport (Pakistan Airports Authority (PAA)), Secretary**
Quetta Airport., Sadar, Quetta (District), Quetta Division (Division), Balochistan (Province).
+92-322-826-8402
rasheedbizenjo35@gmail.com

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

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

("DAAB Agreement")

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

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

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

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

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

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

FORM OF MOBILIZATION ADVANCE GUARANTEE/ BOND

Guarantee No._____ Date _____

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

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

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

Guarantor
(Scheduled Bank/ Insurance Company)

Signature _____
Name _____
Title _____

WITNESS:

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

2. _____
_____
Name, Title & Address

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Retention Money Security
Demand Guarantee

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

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

_____
[signature(s)]

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

Integrity Pact

Integrity Pact

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

Contract Number: Contract Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

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

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Name of Employer: ……
Signature: ……
[Seal]

Name of Bidder/Contractor: ……
Signature: …….
[Seal]

Performance Guarantee Form

FORM OF PERFORMANCE SECURITY

Guarantee No._____
Executed on _____
Expiry date _____

Name of Guarantor with address: _____

Name of Principal (Contractor) with address:_____

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

Letter of Acceptance No. _____Dated _____

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

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

(Name of Contract) for the **Operationalization of Dalbandin Airport (Rehabilitation of Airside Pavements, Security Fence, PTB and Allied Works)** (**P202140**) _____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause11, Defects After Taking Over, of Conditions of Contract are fulfilled.

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

We, _____ (the Guarantor), waiving all objections and defense under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated

above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

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

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

Guarantor
(Schedule Bank/ Insurance Company)
Signature: _____
Name: _____
Title: _____

Corporate Guarantor (Seal)

WITNESS:

1.
_____
_____

2.

_____
_____
Name, Title & Address

Annexure

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Adjustment Data

SBD Document (Read-Only)

See Form Under Additional Forms and Documents: **Adjustment Data** (page number: 350)

Bid Securing Declaration

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Bid Securing Declaration** (page number: 352)

Contract Document

Mandatory Requirement. Please attach signed and stamped copy of the document.

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Contract Document** (page number: 353)

Bill of Quantities

Mandatory Requirement: Please attached filled, signed and stamped BoQ

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Bill of Quantities** (page number: 447)

Procurement Forms

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

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 517)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

SCHEDULE E - PRICE ADJUSTMENT

Schedule of Cost Indexation

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

$$Pn = A + b\,Ln / Lo + c\,En/ Eo + d\,Mn/Mo + ...$$

where:

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

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

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

"Ln", "En", "Mn", are the current cost indices or reference prices for period "n", expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates); and

"Lo", "Eo", "Mo", are the base cost indices or reference prices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the Base Date.

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

If the currency in which the Contract price is expressed is different from the currency of the country of origin of the indices, a correction factor will be applied to avoid incorrect adjustments of the Contract price. The correction factor shall be: ***Z0 / Z1***, where,

Z0 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price on the Base date, and

Z1 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price on the Date of Adjustment.

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FORMULA FACTORS

Price Adjustment Formulae and their Applicability

1. $Pn(1) = A + b(Ln/Lo) + c(Sn/So) + d(Cn/Co) + e(Bn/Bo) + f(Agn/Ago) + g(Dn/Do)$
   Applicable on Sub-Heads 1 & 2 (Airside Pavements and Access Road)

2. $Pn(2) = A + b(Ln/Lo) + c(Sn/So) + d(Cn/Co) + g(Dn/Do)$
   Applicable on Sub-Heads 3, 4, 5 & 6 (Buildings, Ancillary, Public Health, Security)

3. $Pn(3) = A + b(Ln/Lo) + c(Sn/So) + d(Cn/Co) + g(Dn/Do) + h(Cun/Cuo)$
   Applicable on Sub-Heads 7, 8 & 9 (Electrical, Life Safety, Mechanical)

Table I. Summary of Price Adjustment Coefficients

Formula / Coefficient	$P_{n(1)}$	$P_{n(2)}$	$P_{n(3)}$
A (Fixed)	0.30	0.30	0.30
b (Labour)	0.16	0.19	0.20
c (Steel)	0.05	0.27	0.07
d (Cement)	0.11	0.12	0.02
e (Bitumen)	0.05	—	—
f (Aggregate)	0.20	—	—
g (HSD)	0.13	0.12	0.15
h (Copper)	—	—	0.26
Total Adjustable	0.70	0.70	0.70

Table II. Source of Base and Current Prices

Coeff.	Element	Source	Representative Item
b	Labour	PBS Statistical Bulletin	Unskilled labour daily wage
c	Steel	PBS Statistical Bulletin	Grade-40, ½" dia deformed bar
d	Cement	PBS Statistical Bulletin	OPC, 50 kg bag
e	Bitumen	PARCO / Attock notification	60/70 penetration grade
f	Aggregate	PBS Statistical Bulletin	Crushed stone aggregate
g	HSD	OGRA / PSO	High-speed diesel, per litre
h	Copper	LME	Copper (Cu)

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SCHEDULE D - STANDARD FORMS

BID SECURING DECLARATION

Date:
No.: _____
Ref. No.: _____

To:

Director Engineering Services,
Pakistan Airports Authority,
HQPAA, Terminal-1, Jinnah International Airport, Karachi

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 the bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

a) have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;
b) have a disagreement to arithmetical correction made to the Bid price; or
c) 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.

Name of the Bidder*
Name of the person duly authorized to sign the Bid on behalf of the Bidder** _____
Title of the person signing the Bid _____
Signature of the person named above _____
Date signed _____ day of _____, _____

**: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder*
***: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid*
[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]

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This document supersedes and shall prevail over the other EPADS generated conditions.

Pakistan Airports Authority

CONTRACT DOCUMENT

Operationalization of Dalbandin Airport (Rehabilitation of Airside Pavements, Security Fence, PTB and Allied Works)

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SECTION I - INVITATION FOR BIDS

Date: _____
Bid Reference No.: _____

1. The Employer, Pakistan Airports Authority, invites sealed 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 shall be conducted in line with the single stage one 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 a 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.

Yours Sincerely,

[Project Director]

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TABLE OF CONTENTS

SECTION I - INVITATION FOR BIDS i
SECTION II - INSTRUCTIONS TO BIDDERS v
A. INTRODUCTION v
IB.1 Scope of Bid v
IB.2 Source of Funds v
IB.3 Eligible Bidders v
IB.4 Eligible Material and Equipment vii
IB.5 One Bid per Bidder vii
IB.6 Cost of Bidding vii
B. BIDDING DOCUMENTS vii
IB.7 Contents of Bidding Documents vii
IB.8 Clarification of Bidding Documents viii
IB.9 Amendment of Bidding Documents ix
C. PREPARATION OF BIDS ix
IB.10 Language of Bid ix
IB.11 Documents Establishing Eligibility of Material, Equipment and Works, their Conformity to Bidding Documents x
IB.12 Documents Establishing Eligibility and Qualification of the Bidder xi
IB.13 Letter of Bid and Schedules xi
IB.14 Letter of Bid xi
IB.15 Bid Prices xi
IB.16 Currencies of Bid and Payment xii
IB.17 Documents Comprising the Technical Proposal xiii
IB.18 Bid Validity Period xiii
IB.19 Bid Security xiii
IB.20 Alternative Bids by Bidders xiv
IB.21 Withdrawal of Bids xv
IB.22 Format and Signing of Bid xv
D. SUBMISSION OF BIDS xv
IB.23 Sealing and Marking of Bids xv
IB.24 Deadline for Submission of Bids xvi
IB.25 Late Bids xvi
IB.26 Substitution and Modification of bids xvi
E. OPENING AND EVALUATION OF BIDS xvi
IB.27 Opening of Bids xvi
IB.28 Confidentiality xvii

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IB.29 Clarification of Bids....xvii
IB.30 Preliminary Examination of Bids....xviii
IB.31 Examination of Terms and Conditions....xix
IB.32 Correction of Arithmetic Errors....xix
IB.33 Conversion to Single Currency....xx
IB.34 Evaluation of Bids....xx
IB.35 Domestic Preference....xxi
IB.36 Determination of Most Advantageous Bid....xxi
IB.37 Qualification of Bidder....xxi
IB.38 Sub-Contractors....xxi
IB.39 Abnormally Low Financial Bid....xxi
F. AWARD OF CONTRACT....xxiii
IB.40 Criteria of Award....xxiii
IB.41 Negotiations....xxiii
IB.42 Employer's Right to reject All Bids....xxiii
IB.43 Variations....xxiii
IB.44 Instructions for Variations....xxiv
IB.45 Valuation of Variations....xxiv
IB.46 Notification of Award....xxiv
IB.47 Signing of Contract....xxv
IB.48 Performance Security (or Guarantee)....xxv
IB.49 Advance Payment....xxvi
IB.50 General Performance of the Bidders....xxvi
IB.51 Corrupt & Fraudulent Practices....xxvi
G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM....xxvi
IB.52 Constitution of Grievance Redressal....xxvi
IB.53 GRC Procedure....xxvi
H. MECHANISM OF BLACKLISTING....xxvii
IB.54 Mechanism of Blacklisting....xxvii
SECTION III – BID DATA SHEET....xxix
DECLARATION....xxxi
LETTER OF BID....xxxiii

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SECTION II - INSTRUCTIONS TO BIDDERS

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

A. INTRODUCTION

IB.1 **Scope of Bid**The Employer, as indicated in the Bid Data Sheet (BDS) invites Bids for the execution of Works as specified in the BDS and Schedule of Prices (BoQ). The name of this procurement is specified in the BDS.

1.2 Bidders must quote for the complete scope of work. Any Bid covering partial scope of work will be rejected as non-responsive.

IB.2 **Source of Funds**Source of funds as referred in Bid Data Sheet.

IB.3 **Eligible Bidders**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.

3.2 The appointment of Lead Member in the joint venture or consortium shall be confirmed by submission of a valid Power of Attorney to the Employer

3.3 Verifiable copy of the agreement that forms a joint venture or consortium shall be required to be submitted as part of the Bid.

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

3.5 The invitation for bids is open to all prospective bidders subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business.

3.6 Foreign Bidders must be locally registered with the appropriate national incorporating body or the statutory body, before participating in the national competitive bidding with the exception of such procurements made by the foreign missions of Pakistan. For such purpose the bidder must have to initiate the registration process before the bid submission and the necessary evidence shall be submitted to the Employer along with their bid, however, the final award will be subject to the complete registration process.

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

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

b) any of its affiliates has been hired (or is proposed to be hired) by the Employer as Engineer for the Contract implementation; or

c) The works to be executed are resulting from or directly related to consulting services for the preparation or implementation of the project that the bidder provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm;

d) have controlling shareholders in common; or

e) receive or have received any direct or indirect subsidy from any of them; or

f) have the same legal representative for purposes of this Bid; or

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

h) Submit more than one bid in this bidding process.

3.8 A Bidder may be ineligible if:

a) he is declared bankrupt or, in the case of company or firm, insolvent;

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

c) legal proceedings are instituted against such bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property;

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

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

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f) The bidder is blacklisted or debarred by a foreign country, international organization, or other foreign institutions for the period defined by them.

3.9 Bidders shall provide to the Employer evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

3.10 Bidders shall provide such evidence of their continued eligibility to the satisfaction of the Employer, as the Employer shall reasonably request.

3.11 Bidders shall submit proposal relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract is envisaged.

IB.4 Eligible Material and Equipment 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 BDS.

4.2 For purposes of this Clause, "origin" means the place where the material, equipment is produced, manufactured, or processed, or through manufacture, procession, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components or the place from where the services are/to be supplied.

4.3 The nationality of the bidder shall not determine the origin of the material and equipment.

4.4 To establish the eligibility of the material and equipment, Bidders shall fill the country-of-origin declarations included in the Form of Bid.

IB.5 One Bid per BidderA bidder shall submit only one bid, in the same bidding process, either individually as a bidder or as a member in a joint venture or any similar arrangement.

5.2 No bidder can be a sub-contractor while submitting a bid individually or as a member of a joint venture in the same bidding process.

IB.6 Cost of Bidding The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process

B. BIDDING DOCUMENTS

IB.7 Contents of Bidding Documents 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 IB 9.2 include:

Section I – Invitation for Bids

Section II – Instructions to Bidders

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Section III – Bid Data Sheet (BDS)

Section IV – Contract Agreement

Section V - Drawings, if any

7.2 The number of copies to be completed and submitted with the Bid is specified in the BDS.

7.3 The Employer is not responsible for the completeness of the bidding documents and their addenda, if they were not obtained directly from the Employer or the signed pdf version downloaded from the website of the Employer or the Authority's website or e-Procurement System as the case may be. However, Employer shall place both the pdf and editable version of the same on its website and Authority's website or e-Procurement System to facilitate the bidder for filling the standard bidding forms.

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

IB.8 Clarification of Bidding DocumentsA prospective bidder requiring any clarification of the bidding document may notify The Employer in writing or in electronic form that provides record of the contents of communication at the Employer's address indicated in the BDS.

8.2 The Employer will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than three (03) days prior to the deadline for the submission of Bids as prescribed in IB 24.1. However, this clause shall not apply in case of alternate methods of procurement.

8.3 Copies of the Employer's response will be forwarded to all identified prospective bidders through an identified source of communication, including a description of the inquiry, but without specifying its source.

8.4 In case of downloading of the bidding documents from the website of Employer or e-Procurement System, the response of all such queries will also be available on the same platform available at the website.

8.5 Should the Employer deem it necessary to amend the bidding documents as a result of a clarification, it shall do so following the procedure as prescribed under IB 09.

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

8.7 Minutes of the pre-bid meeting, if applicable, including the text of the questions asked

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by bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective bidders who have obtained the bidding documents. Any modification to the bidding documents that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the use of an Addendum pursuant to IB 9. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

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

8.9 The bidder and any of its authorized personnel will be granted permission by the 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 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.

IB.9 Amendment of Bidding Documents Before the deadline for submission of bids, the Employer for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder or pre-bid meeting may modify the bidding documents by issuing addenda.

9.2 Any addendum issued including the notice of any extension of the deadline shall be part of the bidding documents pursuant to IB 7.1 and shall be communicated in a timely manner and on equal opportunity basis. Where notification of such change, addition, modification or deletion becomes essential, such notification shall be made in a manner similar to the original advertisement.

Provided that the bidder who had either already submitted their bid or handed over the bid to the courier prior to the issuance of any such addendum shall have the right to withdraw his already filed bid and submit the revised bid prior to the original or extended bid submission deadline.

9.3 To give prospective bidders reasonable time in which to take an addendum/corrigendum into account in preparing their bids, the Employer may, at its discretion, extend the deadline for the submission of bids:

Provided that The Employer shall extend the deadline for submission of bid, if such an addendum is issued within last three (03) days of the bid submission deadline.

C. PREPARATION OF BIDS

IB.10 Language of Bid The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the Employer shall be written

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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.

IB.11 Documents Establishing Eligibility of Material, Equipment and Works, their Conformity to Bidding Documents The bid prepared by the bidder shall constitute the following components:

a) Documentary evidence established in accordance with IB 11 that the material, equipment and services to be provided by the Bidder are eligible material, equipment and services, and conform to the Bidding Documents;

b) Documentary evidence established in accordance with IB 12 that the bidder has been authorized to carry out the Construction works;

c) Documentary evidence established in accordance with IB 12 that the bidder is eligible and/or qualified for the subject bidding process;

d) Form of Bid and Bid Prices completed in accordance with IB 14 and 15;

e) Completed schedules as required, including priced Bill of Quantities in accordance with IB 13 & 15.

f) Bid security furnished in accordance with IB 19;

g) Alternative bids, if permissible, in accordance with IB 20;

h) Duly Notarized Power of Attorney authorizing the signatory of the Bidder to submit the bid; and

i) Any other document required in the BDS.

11.2 In addition to the requirements, bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement.

11.3 The bidder shall furnish, as part of its bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the bidding documents for all material, equipment and works which the bidder proposes to execute.

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

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

b) an item-by-item commentary on the Employer's Technical Specifications

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demonstrating substantial responsiveness of the material, equipment and works to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications;

c) any other procurement specific documentation requirement if stated in the BDS.

11.5 The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation into English shall be attached to the original version.

IB.12 Documents Establishing Eligibility and Qualification of the Bidder The bidder shall furnish, as part of its bid, all those documents establishing the bidder's eligibility to participate in the bidding process and/or its qualification to perform the contract if its bid is accepted.

12.2 The documentary evidence of the bidder's eligibility to bid shall establish to the satisfaction of the Employer that the bidder, at the time of submission of its bid, is from an eligible country as defined in BDS.

12.3 The documentary evidence of the bidder's qualification to perform the contract if its bid is accepted shall establish to the satisfaction of the Employer that:

a) The bidder has the financial and technical capability necessary to perform the Contract, meets the Evaluation and Qualification Criteria defined in BDS.

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

IB.13 Letter of Bid and Schedules The Letter of Bid and Schedules, including the Bill of Quantities, shall be prepared using the relevant forms furnished in Standard Bid Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under IB 22. All blank spaces shall be filled in with the information requested.

IB.14 Letter of Bid The bidder shall fill the Letter of Bid furnished in the bidding documents. The Standard Bid Forms must be completed without any alterations to its format and no substitute shall be accepted.

IB.15 Bid Prices The bid prices quoted by the bidder in the Standard bid Forms, Bill of Quantities and in the Price Schedules shall conform to the requirements specified below or exclusively mentioned hereafter in the bidding documents.

15.2 The bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items in the Bill of Quantities and will

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not be paid for separately by The Employer.

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

Provided that:

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

b) where there is provision for alternate proposals and the respective items are not listed in the other bids,

The Employer may fix the price of missing items in accordance with market survey, and the same shall be considered as final price.

15.4 The Bid price to be quoted in the Form of Bid in accordance with IB 15.1 shall be the total price of the bid.

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

15.6 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 IB 30, unless otherwise price adjustment is permissible under Conditions of the Contract.

15.7 All duties, taxes (except provincial sales tax on services), and other levies payable by the Contractor under the Contract, or for any other cause, as of the date fourteen (14) 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.

IB.16 Currencies of Bid and Payment The currency(ies) of the bid and the currency(ies) of payments shall be as specified in the BDS.

16.2 For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.

16.3 Bidders shall indicate details of their expected foreign currency requirements in the Bid, if prescribed in the BDS.

16.4 Bidders may be required by the Employer to clarify their foreign currency requirements, if prescribed in the BDS and to substantiate that the amounts included in Lump Sum and in the SCC are reasonable and responsive to IB 16.1.

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IB.17 Documents Comprising the Technical Proposal The bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in BDS, in sufficient detail to demonstrate the adequacy of the bidder's proposal to meet the work requirements and the completion time.

IB.18 Bid Validity Period Bids shall remain valid for the period specified in the BDS after the bid submission deadline prescribed by The Employer. A bid valid for a shorter period shall be rejected by the Employer as non-responsive. The period of bid validity will be determined from the complementary bid securing instrument i.e. the expiry period of bid security or bid securing declaration as the case may be.

18.2 Under exceptional circumstances, prior to the expiration of the initial bid validity period, the Employer may request the bidders' consent to an extension of the period of validity of their bids only once, for the period not more than the period of initial bid validity. The request and the bidders' responses shall be made in writing or in electronic forms that provide record of the content of communication. The Bid Security provided under IB 19 shall also be extended 28 days beyond the deadline of extended bid validity period. A bidder may refuse the request for the extension of his bid without forfeiting his bid security. A bidder agreeing to the request will not be required nor permitted to modify its bid, but will be required to extend the validity of its Bid Security for the period of the extension, and in compliance with IB 19 in all respects.

IB.19 Bid Security Pursuant to IB 11.1 unless otherwise specified in the BDS, the bidder shall furnish as part of its bid, a Bid Security in form of fixed amount not exceeding five percent of the estimated value of procurement determined by the Employer and in the amount and currency specified in the BDS.

19.2 The Bid Security is required to protect the Employer against the risk of Bidder's conduct before award of the contract to the most advantageous bidder which would warrant the security's forfeiture, pursuant to IB 19.9.

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

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

b) A cashier's or certified cheque; or

c) Another security as indicated in the BDS.

19.4 The Bid Security shall be in the form approved by the Employer prior to the bid submission.

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19.5 The Bid Security shall be payable promptly upon written demand by the Employer in case any of the conditions listed in IB 19.9 are invoked.

19.6 Any bid not accompanied by a Bid Security in accordance with IB 19.1 or 19.3 shall be rejected by The Employer and shall be declared as non-responsive bid, pursuant to IB 30.

19.7 Unsuccessful bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the Employer pursuant to IB 18. The Employer shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest:

a) The expiry of the Bid Security;

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

c) The rejection by the Employer of all Bids;

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

19.8 The successful bidder's Bid Security will be discharged upon the bidder signing the contract pursuant to IB 47, or furnishing the performance security (or guarantee), pursuant to IB 48.

19.9 The Bid Security may be forfeited:

a) if a Bidder:

i) Withdraws its Bid during the period of Bid Validity as specified by The Employer, and referred by the bidder on the Form of Bid except as provided for in IB 18.2; or

ii) Does not accept the correction of errors pursuant to IB 32; or

b) In the case of a successful bidder, if the bidder fails:

iii) to sign the contract in accordance with IB 47; or

iv) to furnish performance security (or guarantee) in accordance with IB 48.

IB.20 Alternative Bids by Bidders Bidders shall submit offers that comply with the requirements of the bidding documents, including the basic bidder's technical design as indicated in the specifications and Bill of Quantities. Alternatives will not be considered, unless specifically allowed for in the BDS. If so allowed, IB 20 shall prevail.

20.2 When alternative schedule for execution of works is explicitly invited, a statement of that effect will be included in the BDS as will the method for evaluating different

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schedule for execution of works.

20.3 If so allowed in the BDS, bidders wishing to offer technical alternatives to the requirements of the bidding documents must also submit a bid that complies with the requirements of the bidding documents, including the basic technical design as indicated in the specifications. In addition to submitting the basic bid, the bidder shall provide all information necessary for a complete evaluation of the alternative by the Employer, including technical specifications, breakdown of prices, and other relevant details. Only the technical alternatives, if any, of the Most Advantageous Bidder conforming to the basic technical requirements (without altering the bid price) shall be considered by the Employer.

IB.21 Withdrawal of Bids Before bid submission deadline, any bidder may withdraw, substitute, or modify its bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and the corresponding must accompany the respective written notice.

21.2 Bids requested to be withdrawn in accordance with IB 21.1 shall be returned unopened to the bidders.

IB.22 Format and Signing of Bid The Bidder shall prepare an original and the number of copies of the bid as indicated in the BDS, clearly marking each "ORIGINAL" and "COPY" as appropriate. In the event of any discrepancy between them, the original shall prevail:

22.2 The original and the copy (ies) of the bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to sign on behalf of the bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.

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

D. SUBMISSION OF BIDS

IB.23 Sealing and Marking of Bids The bidder shall seal the original and each copy of the bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY". The envelopes shall then be sealed in an outer envelope securely sealed in such a manner that opening and resealing cannot be achieved undetected.

Note: The envelopes shall be sealed and marked in accordance with the bidding procedure adopted as referred in Rule-36 of Public Procurement Rules, 2004.

23.2 The inner and outer envelopes shall:

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a) be addressed to the Employer at the address given in the BDS; and

b) bear the title of the subject procurement or project name, as the case may be as indicated in the BDS.

23.3 If all envelopes are not sealed and marked as required by IB 23.2 or incorrectly marked, the Employer will assume no responsibility for the misplacement or premature opening of bid.

IB.24 Deadline for Submission of Bids Bids shall be received to the Employer no later than the date and time specified in the BDS.

24.2 The Employer may, under exceptional circumstances and at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with IB 9, in which case all rights and obligations of the Employer and bidders previously subject to the deadline will thereafter be subject to the new deadline.

IB.25 Late Bids The Employer shall not consider for evaluation of any bid that arrives after the deadline for submission of bids, in accordance with IB 24.

25.2 Any bid received by the Employer after the deadline for submission of bids shall be declared late, recorded, rejected and returned unopened to the bidder.

IB.26 Substitution and Modification of bidsA 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 Employer prior to the deadline for submission of bids.

26.2 Revised bid may be submitted after the substitution or modification made in the original bid in accordance with the provisions referred in IB 22.

E. OPENING AND EVALUATION OF BIDS

IB.27 Opening of Bids The Employer will open all bids, in public, in the presence of bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the bid proceedings at the place, on the date and at the time, specified in the BDS. The bidders' representatives present shall sign a attendance sheet as a proof of their attendance.

27.2 The bidders' names, the bid prices, the total amount of each bid and of any alternative bid (if alternatives have been requested or permitted), the presence or absence of Bid Security and such other details as the Employer may consider appropriate, will be announced by the Procurement Evaluation Committee.

27.3 Bids not opened and not read out at the bid opening shall not be considered further for evaluation, irrespective of the circumstances.

27.4 Bidders are advised to send in a representative with the knowledge of the content of the bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent bidder's representative shall indemnify The Employer against any claim or failure to read out

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the correct information contained in the bidder's bid.

27.5 No bid will be rejected at the time of bid opening except for late bids which will be returned unopened to the bidder, pursuant to IB 25.

27.6 The Employer shall prepare a record of the bid opening, which shall include, as a minimum: the name of the bidder, quoted bid price and presence or absence of a Bid Security.

27.7 The bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a bidder's signature on the record shall not invalidate the contents and affect the record.

IB.28 Confidentiality Information relating to the examination, clarification, evaluation and comparison of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report.

28.2 Any effort by a bidder to influence the Employer processing of bids or award decisions may result in the rejection of its bid.

28.3 Notwithstanding IB 28.2 from the time of bid opening to the time of contract award, if any bidder wishes to contact the Employer on any matter related to the bidding process, it should do so in writing or in electronic forms that provides record of the content of communication.

IB.29 Clarification of Bids To assist in the examination, evaluation and comparison of bids, The Employer may, ask any bidder for a clarification of its bid including breakdown of prices invariably in writing. Any clarification submitted by a bidder that is not in response to a request by The Employer shall not be considered.

29.2 The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. No change in the prices or substance of the bid shall be sought, offered, or permitted, except clarification for the correction of arithmetic errors discovered by The Employer during the evaluation of bids which shall be sought in accordance with IB 32.

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

a) evaluation & qualification criteria;

b) required scope of work;

c) contract price;

d) all securities requirements;

e) tax requirements;

f) terms and conditions of bidding documents.

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g) change in the ranking of the bidder

29.4 From the time of bid opening to the time of Contract award if any bidder wishes to contact The Employer on any matter related to the bid it should do so in writing or in electronic forms that provide record of the content of communication.

IB.30 Preliminary Examination of Bids Prior to the detailed evaluation of bids, the Employer will determine whether each bid:

a) meets the eligibility criteria defined in IB 3 and IB 4;

b) has been prepared as per the format and contents defined by the Employer in the bidding documents;

c) has been properly signed;

d) is accompanied by the required securities; and

e) is substantially responsive to the requirements of the bidding documents.

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

a) affects in any substantial way the scope, quality, or performance of the Works;

b) limits in any substantial way, inconsistent with the bidding documents, The Employer's rights or the bidders' obligations under the Contract; or

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

30.3 The Employer will confirm that the documents and information specified under IB 11, 12 and 13 have been provided in the bid. If any of these documents or information is missing, or is not provided in accordance with the Instructions to Bidders, the bid shall be rejected.

30.4 The 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 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 Employer. Examples of minor informalities or irregularities include failure of a bidder to –*

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a) Submit the number of copies of signed bids required by the invitation;

b) Furnish required information concerning the number of its employees;

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

IB.31 Examination of Terms and Conditions The Employer shall examine the bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the bidder without any material deviation or reservation. For this purpose:

"Deviation" means departure from the requirements specified in the Bidding Document.

"Reservation" means setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document.

31.2 The Employer shall evaluate the technical aspects of the bid submitted in accordance with IB 31, to confirm that all requirements specified in Schedules & Specifications of the Bidding Documents have been met without material deviation or reservation.

31.3 If after the examination of the terms and conditions the Employer determines that the bid is not substantially responsive in accordance with IB 30, it shall reject the bid.

IB.32 Correction of Arithmetic Errors Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

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

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

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

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

32.2 The amount stated in the Bid will, be rectified by the 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 IB 19.9.

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IB.33 Conversion to Single Currency 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 Employer's country (referred to as the "Foreign Currency Requirements") shall indicate the same in the letter of bid-financial proposal. The proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the Bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in his bid.

33.2 To facilitate evaluation and comparison, The Employer will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable. For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.

33.3 The currency selected for converting bid prices to a common base for the purpose of evaluation, along with the source and date of the exchange rate, are specified in the BDS.

IB.34 Evaluation of Bids The Employer shall evaluate and compare only the bids determined to be substantially responsive, pursuant to IB 30.

34.2 The Employer's evaluation of a bid will take into account:

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

b) price adjustment for correction of arithmetic errors in accordance with IB 32.1;

c) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with IB 33;

34.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.

34.4 If the bid, which results in the Evaluated Bid Price (Most Advantageous Bid), is seriously unbalanced or front loaded in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, taking into consideration the schedule of estimated Contract payments, the Employer may require

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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.

IB.35 Domestic Preference If the BDS so specifies, The 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.

IB.36 Determination of Most Advantageous Bid The Employer shall compare the evaluated bids in accordance with the predefined bidding procedure, of all substantially responsive bids to determine the Most Advantageous bidder.

IB.37 Qualification of Bidder The Employer shall determine to its satisfaction whether the bidder is substantially responsive and whose bid is declared as most advantageous bid either continues to meet (if prequalification applies) or meets (if post-qualification applies) the qualifying criteria specified in Evaluation and Qualification Criteria.

37.2 The determination shall be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to IB 12.

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

IB.38 Sub-Contractors The bidder shall provide details regarding any specialized sub-contractor to the Employer. In case change of sub-contractors, the bidder shall promptly notify The Employer and obtain approval for replacement of sub-contractors.

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

IB.39 Abnormally Low Financial Bid Where the bid price is considered to be abnormally low, the Employer shall perform price analysis either during determination of Most Advantageous Bid or as a part of the post-qualification process. The following process shall apply:

a) The Employer may reject a bid if the Employer has determined that the price in combination with other constituent elements of the bid is abnormally low in relation to the subject matter of the procurement (i.e. scope of the procurement or ancillary services) and raises concerns as to the capability and capacity of the respective Bidder to perform that contract;

b) Before rejecting an abnormally low bid the Employer shall request the bidder an explanation of the bid or of those sections which it considers contribute to the

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bid being abnormally low; take account of the evidence provided in response to a request in writing; and subsequently verify the bid or parts of the bid being abnormally low;

c) The decision of the Employer to reject a bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the bidder concerned;

d) The Employer shall not incur any liability solely by rejecting abnormally bid; and

e) An abnormally low bid means, in the light of the Employer's estimate and of all the bids submitted, the bid appears to be abnormally low by not providing a margin for normal levels of profit.

Guidance for the Employer:

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

i) Comparing the bid price with the cost estimate;

ii) Comparing the bid price with the bids offered by other bidders submitting substantially responsive bids; and

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

39.2 The Employer will determine to its satisfaction whether the bidder that is selected as having submitted the most advantageous bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in IB 12

39.3 The determination will take into account the bidder's financial and technical capabilities. It will be based upon an examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to IB 12, as well as such other information as The Employer deems necessary and appropriate. Factors not included in these bidding documents shall not be used in the evaluation of the bidders' qualifications.

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

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

39.5 An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidder's bid, in which event The Employer will proceed to the next ranked bidder to make a similar

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determination of that bidder's capabilities to perform satisfactorily.

F. AWARD OF CONTRACT

IB.40 Criteria of Award Subject to IB 36 and 37, The Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents and who has been declared as Most Advantageous Bidder, provided that such bidder has been determined to be:

a) eligible in accordance with the provisions of IB 3;

b) is determined to be qualified to perform the Contract satisfactorily; and

c) Successful negotiations have been concluded, if any.

IB.41 Negotiations The Committee of the Employer may negotiate with the Most Advantageous Bidder relating to the following areas:

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

b) Methodology, work plan, staffing in view to streamline the work;

c) a minor amendment to the special conditions of Contract;

d) finalizing payment arrangements;

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

41.2 Where negotiation fails to result into an agreement, The Employer may invite the next ranked bidder for negotiations. Where negotiations are commenced with the next ranked bidder, the Employer shall not reopen earlier negotiations.

IB.42 Employer's Right to reject All Bids Notwithstanding IB 37, the Employer reserves the right to reject all the bids, and to annul the bidding process at any time prior to acceptance of bid, without thereby incurring any liability to the affected bidder(s).

42.2 Notice of the rejection of all bids shall be given promptly to all bidders that have submitted bids.

42.3 The Employer shall upon request communicate to any bidder the grounds for its rejection of its bids, but is not required to justify those grounds.

IB.43 Variations The Engineer shall make any variation in the quantity of the Works or any part thereof that may, in his opinion, be necessary and for that purpose, or if for any other reason it shall, in his opinion, be appropriate, he shall have the authority to instruct the Contractor to do and the Contractor shall do any of the following:

a) increase or decrease the quantity of any work included in the Contract,

b) omit any such work (but not if the omitted work is to be carried out by the Employer or by another contractor),

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c) change the character or quality or kind of any such work,

d) change the levels, lines, position and dimensions of any part of the Works,

e) execute additional work of any kind necessary for the completion of the Works, or

f) change any specified sequence or timing of construction of any part of the Works.

No such variation shall in any way vitiate or invalidate the Contract, but the effect, if any, of all such variations shall be valued in accordance with IB 15. Provided that where the issue of an instruction to vary the Works is necessitated by some default of or breach of contract by the Contractor or for which he is responsible, any additional cost attributable to such default shall be borne by the Contractor.

IB.44 Instructions for Variations The Contractor shall not make any such variation without an instruction of the Engineer. Provided that no instruction shall be required for increase or decrease in the quantity of any work where such increase or decrease is not the result of an instruction given under this Clause, but is the result of the quantities exceeding or being less than those stated in the Bill of Quantities.

IB.45 Valuation of Variations All variations and any additions to the Contract Price which are required to be determined in accordance with IB 15 (for the purposes of this Clause referred to as "varied work"), shall be valued at the rates and prices set out in the Contract if, in the opinion of the Engineer, the same shall be applicable. If the Contract does not contain any rates or prices applicable to the varied work, the rates and prices in the Contract shall be used as the basis for valuation so far as may be reasonable, failing which, after due consultation by the Engineer with The Employer and the Contractor, suitable rates or prices shall be agreed upon between the Engineer and the Contractor. In the event of disagreement, the Engineer shall fix such rates or prices as are, in his opinion, appropriate and shall notify the Contractor accordingly, with a copy to the Employer. Until such time as rates or prices are agreed or fixed, the Engineer shall determine provisional rates or prices to enable on-account payments to be included in certificates issued in accordance with IB 15.

IB.46 Notification of Award Prior to the award of contract, the Employer shall issue a Final Evaluation Report giving justification for acceptance or rejection of the bids.

46.2 Where no complaints have been lodged, the bidder whose bid has been accepted will be notified of the award by the Employer prior to expiration of the bid validity period in writing or through electronic means that provide record of the content of communication. However, The Employer shall not award any procurement contract atleast for fifteen (15) days after the acceptance of bid. The notification letter (herein after and in the condition of the contract and contract form called “Letter of Acceptance” will specify the sum that The Employer will pay the successful bidder in consideration for the execution and completion of the works as prescribed by the

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Contract (hereinafter and in the Contract called the "Contract Price").

46.3 The notification of award will constitute the formation of the Contract, subject to the bidder furnishing the Performance Security (or guarantee) in accordance with IB 48 and signing of the contract in accordance with IB 47.

46.4 Upon the successful bidder's furnishing of the performance security (or guarantee) pursuant to IB 48, The Employer will promptly notify each unsuccessful bidder, the name of the successful bidder and the Contract amount and will discharge the Bid Security of the bidder(s) pursuant to IB 19.

IB.47 Signing of Contract Promptly after notification of award, the Employer shall send the successful bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.

47.2 Immediately after the Redressal of grievance (if any) by the GRC, and after fulfillment of all conditions precedent of the Contract Form, the successful bidder and The Employer shall sign the contract.

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

IB.48 Performance Security (or Guarantee) After the receipt of the Letter of Acceptance, the successful bidder, within the specified time, shall deliver to the Employer a Performance Guarantee in the amount and in the form stipulated in the BDS and SCC, denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.

48.2 The Performance Guarantee to be provided by the successful bidder shall be in the form specified in the BDS which shall be in any of the following:

a) certified cheque, cashier's or manager's cheque, or bank draft;

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

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

d) surety bond callable upon demand issued by any reputable surety or insurance company.

48.3 Any Performance Guarantee submitted shall be enforceable in Pakistan.

48.4 Failure of the Most Advantageous Bidder to comply with the requirement of IB 47 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or declare blacklisted (in case bid securing declaration is submitted) in which event The Employer may make the award to the next most advantageous bidder or reinitiate the procurement process afresh (as a case may be).

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IB.49 Advance Payment Advance payment will be provided to the bidder in percentage and in the manner as agreed by the both parties in terms of Conditions of the Contract.

49.2 The 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 Schedule D – Standard Forms. 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 Employer's "Notice to Commence" as specified in the SCC.

IB.50 General Performance of the Bidders The Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts / works. The Employer may seek information / report from the previous employer for consideration. However, The Employer shall incorporate such parameters in the evaluation criteria and accordingly decide the fate of the bid submitted.

IB.51 Corrupt & Fraudulent Practices Procuring agencies 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

IB.52 Constitution of Grievance Redressal The Employer shall constitute a Grievance Redressal Committee (GRC) comprising of odd number of persons with proper power and authorization to address the complaint. The GRC shall not have any of the members of Procurement Evaluation Committee. The committee must have one subject specialist depending the nature of the procurement.

IB.53 GRC Procedure Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the prequalification or bidding documents found contrary to provision of Procurement Regulatory Framework, and the same shall be addressed by the GRC well before the bid submission deadline.

53.2 Any bidder feeling aggrieved by any act of the Employer after the submission of his bid may lodge a written complaint concerning his grievances not later than seven days of the announcement of technical evaluation report and five days after issuance of final evaluation report.

53.3 In case, the complaint is filed against the technical evaluation report, the GRC shall suspend the procurement proceedings.

53.4 In case, the complaint is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report:

53.5 Provided that the complainant may raise the objection on any part of the final evaluation

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report in case where single stage one envelope bidding procedure is adopted.

53.6 The GRC, in both the cases shall investigate and decide upon the complaint within ten days of its receipt.

53.7 Any bidder or the Employer not satisfied with the decision of the GRC may file Appeal before the Appellate Committee of the Authority on prescribed format after depositing the prescribed fee.

53.8 The Committee, upon receipt of the Appeal against the decision of the GRC complete in all respect shall serve notices in writing upon all the parties to Appeal.

53.9 The committee shall call the record from the concerned Employer or the GRC as the case may be, and the same shall be provided within prescribed time.

53.10 The committee may after examination of the relevant record and hearing all the concerned parties, shall decide the complaint within fifteen (15) days of receipt of the Appeal.

53.11 The decision of the Committee shall be in writing and shall be signed by the Head and each Member of the Committee. The decision of the committee shall be final.

H. MECHANISM OF BLACKLISTING

IB.54 Mechanism of Blacklisting The Employer shall bar for not more than the time prescribed in Rule 19 of the Public Procurement Rules, 2004, from participating in their respective procurement proceedings, bidder or contractor who is either:

i) Involved in corrupt and fraudulent practices as defined in Rule 2 of Public Procurement Rules; or

ii) Fails to perform his contractual obligations; and

iii) Fails to abide by the bid securing declaration.

54.2 The show cause notice shall contain: (a) precise allegation, against the bidder or contractor; (b) the maximum period for which The Employer proposes to debar the bidder or contractor from participating in any public procurement of The Employer; and (c) the statement, if needed, about the intention of The Employer to make a request to the Authority for debarring the bidder or contractor from participating in public procurements of all the procuring agencies.

54.3 The Employer shall give minimum of seven days to the bidder or contractor for submission of written reply of the show cause notice.

54.4 In case, the bidder or contractor fails to submit written reply within the requisite time, The Employer may issue notice for personal hearing to the bidder or contractor/ authorized representative of the bidder or contractor and the Employer shall decide the matter on the basis of available record and personal hearing, if availed.

54.5 In case the bidder or contractor submits written reply of the show cause notice, the

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Employer may decide to file the matter or direct issuance of a notice to the bidder or contractor for personal hearing.

54.6 The Employer shall give minimum of seven days to the bidder or contractor for appearance before the designated officer of The Employer for personal hearing. The designated officer shall decide the matter on the basis of the available record and personal hearing of the bidder or contractor, if availed.

54.7 The Employer shall decide the matter within fifteen (15) days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing.

54.8 The Employer shall communicate to the bidder or contractor the order of debarring the bidder or contractor from participating in any public procurement with a statement that the bidder or contractor may, within thirty (30) days, prefer a representation against the order before the Authority.

54.9 Such blacklisting or barring action shall be communicated by the Employer to the Authority and respective bidder or bidders in the form of decision containing the grounds for such action. The same shall be publicized by the Authority after examining the record whether the procedure defined in blacklisting and debarment mechanism has been adhered to by the Employer.

54.10 The bidder may file the review petition before the Review Petition Committee Authority within thirty (30) days of communication of such blacklisting or barring action after depositing the prescribed fee and in accordance with “Procedure of filing and disposal of review petition under Rule-19(3) Regulations, 2021”. The Committee shall evaluate the case and decide within ninety (90) days of filing of review petition.

54.11 The committee shall serve a notice in writing upon all respondent of the review petition. The notices shall be accompanied by the copies of review petition and all attached documents of the review petition including the decision of The Employer. The parties may file written statements along with essential documents in support of their contentions. The Committee may pass such order on the representation may deem fit.

54.12 The Authority on the basis of decision made by the committee either may debar a bidder or contractor from participating in any public procurement process of all or some of the procuring agencies for such period as the deemed appropriate or acquit the bidder from the allegations. The decision of the Authority shall be final.

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SECTION III – BID DATA SHEET

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

IB Clause Reference	**Amendments of, and Supplements to, Clauses in the Instruction to Bidders**
1.1 Name of Employer	Director Engineering Services, *for* Pakistan Airports Authority Add: HQ PAA, Terminal 1, JIAP, Karachi
1.1 Name of Work	_____ _____ _____ _____ _____ _____
1.1 Period for Completion of the Works	24 Months
2.1 Source of Funds	Self-financed by the Employer
3.1 JV / Consortium or Association	Not allowed
4.1 Eligible Countries	All countries except Israel and India
7.2 Copies of Bidding Documents	06 Copies
8.1 Address for clarification of Bidding Documents	The address for clarification of Bidding Documents is: *Office of the Project Director Dalbandin at Quetta Airport*
8.5 Pre-bid Meeting	Pre-bid meeting will not be held.
10.1 Language of Bid	The Language of all correspondences and documents related to the Bid shall be English.
15.5 Price Adjustment	Refer Schedule E – Price Adjustment
16.1 Currencies of Bid and Payment	The currency of the Bid and Payment shall be PKR only
18.1 Bid Validity	The Bid Validity period shall be 90 days.
19.1 Bid Security	The Bid Security shall be in the form of Bid Securing Declaration
20. Alternative Bids	Clause IB 20 is deleted in its entirety. Alternative Bids are not allowed.
22.1 Format and Signing of Bids	The number of copies of the Bid to be completed and returned shall be one (01).

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22.2 Authorization to sign on behalf of the Bidder	The written confirmation of authorization to sign on behalf of the Bidder shall be in the form of Power of Attorney.
23.2(a) Employer's Address	HQ PAA, Terminal I, JIAP, Karachi
23.2(b) Title of the Procurement / Name of Work	Title of the subject Procurement as mentioned on the EPADS.
24.1 Deadline for submission of Bids	The deadline for Bid submission is as per EPADS
27.1 Place of Bid Opening	The Bid(s) shall be opened online on EPADS.
33 Conversion to Single Currency	Clause IB 33 is deleted in its entirety. The unit rates and the prices shall be quoted by the bidder entirely in PKR.
34 Bid Evaluation Method	**Least Cost Based Selection (LCBS)** After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (drawings/ design/ technical specifications /requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered highest ranked bid.
35 Domestic Preference	Domestic preference to apply.
48 Performance Security	The Performance Security shall be in the form of a surety bond callable upon demand issued by any reputable surety or an Insurance Company in Pakistan having at least "AA" rating from PACRA.

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DECLARATION

It is hereby solemnly affirmed and declared that I / we are not serving employees of any Government organization including Pakistan Airports Authority (PAA), and that it is further assured that if I / we had been previously engaged with PAA as an employee, then that service or employment had ceased to be in effect two years prior to the date of advertisement for this Work.

It is hereby further solemnly affirmed and declared that no serving or retired employee who has not completed two years after retirement from PAA is employed at our Contracting business.

It is hereby 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 monies due or which may become due to PAA shall stand forfeited and be absolutely at the disposal of the PAA.

[Contractor's Signatures with Seal]

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LETTER OF BID

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Contract Data, Specifications, Drawings, if any, Schedule of Prices and Addenda (if any) for the execution of the Works named and described in the Bidding Data provided hereinbefore, we, the undersigned, being a licensed Constructor under the laws of Pakistan hereby offer to execute and complete such Works and remedy any defects therein in conformity with the said Documents including *any* Addenda thereto for the Total Bid Price stated in the Letter of Acceptance or such other sum as may be ascertained in accordance with the said Documents.

2. We understand that all the Schedules attached hereto form part of this Bid.

3. As security for due performance of the undertakings and obligations of this Bid, we submit herewith a Bid Security in the form prescribed in Bidding Data.

4. We undertake, if our Bid is accepted, to commence the Works and to deliver and complete the Works comprised in the Contract within the time(s) stated in Contract Data.

5. We agree to abide by this Bid for the period mentioned in the Bidding Data from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

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

7. We undertake, if our Bid is accepted, to execute the Performance Security referred to in Conditions of Contract for the due performance of the Contract.

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

9. We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other person or persons making a bid for the Works.

Dated this _____ day of _____, 20____

Witness **[Signature of Contractor]**

CNIC

The Bid is hereby accepted by me on behalf of the Pakistan Airports Authority.

Dated the _____ day of _____ 20_____

[Signature of Officer by whom accepted]

For Employer [xxxiii] For Contractor

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SECTION IV - CONTRACT AGREEMENT



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TABLE OF CONTENTS

FORM OF CONTRACT AGREEMENT 6
GENERAL CONDITIONS OF CONTRACT 8
PARTICULAR CONDITIONS OF THE CONTRACT 10
Part A - Contract Data 10
Part B – Special Provisions 15
SPECIAL CONDITIONS OF THE CONTRACT 29
1. General 29
2. Codes, And Standards 29
3. Specification Epilogues 29
4. Method of Measurement and Basis of Payment 30
5. Payment For Works Defined in the General Specifications 30
6. Existing Condition at Site 30
7. Coordination With Other Contractors 30
8. Protection And Precautions 31
9. Protection of the Works 31
10. Sequence of Construction 32
11. Notification to Engineer 32
12. Construction Schedule 32
13. Partial Possession of Works by the Employer 32
14. Existing Services 33
15. Storage and Handling Facilities 33
16. Suspension of Work / Idleness of Construction Machinery 33
17. Execution and Inspection of Works 34
18. Contractor to Notify Delays Etc. 34
19. Manufacturer's Recommendations 34
20. Product Data 35
21. Inspection & Tests Reports 35
22. Setting Out of Work and Survey 35
23. Surveying Instruments 36
24. Approval of Materials and Plant 36
25. Witnessing of Factory Acceptance Tests 37
26. Drawings 38
27. Submission Requirements 39
28. Facilities and Services for the Employer and the Engineer 39
29. Contractor's Office & Site Facilities etc. 43

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30. Cleaning & Upkeep of Site 44
31. Environmental Protection 45
32. Non-Compliance with Special Conditions & Penalties 45
SCHEDULE A - SCHEDULE OF PRICES A-1
SCHEDULE B - PROPOSED PROGRAMME OF WORKS B-1
SCHEDULE C - INTEGRITY PACT C-1
SCHEDULE D - STANDARD FORMS D-1
SCHEDULE E - PRICE ADJUSTMENT E-1
SCHEDULE F - SPECIFICATIONS F-1

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(On appropriately valued non-judicial stamp papers)

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Contract") made on the _____ day of _____ 20_____ between **PAKISTAN AIRPORTS AUTHORITY,** established under the Pakistan Airports Authority Act, 2023, having its Head Office at Terminal-I, JIAP, Karachi, through its duly authorized officer (hereinafter called the "Employer") of the one part;

AND

M/s._____ registered with Pakistan Engineering Council as a licensed Constructor, 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 other part.

WHEREAS the Employer is desirous that certain works, namely "[Name of work]" should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these works and remedying of any defects therein, in the sum of [contract price in words and figures] (hereinafter called "the Contract Price").

NOW this Contract witnesseth as follows:

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

2. The following documents after incorporating addenda, if any, shall be deemed to form and be read and construed as part of this Contract. In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:

(a) This Form of Contract;
(b) The Letter of Acceptance;
(c) The completed Form of Bid along with Schedules to Bid including Bill of Quantities;
(d) the Works Requirements;
(e) the Technical Specifications;
(f) the Drawings;
(g) the Special Conditions of Contract,
(h) the Particular Conditions of Contract,
(i) the General Conditions of the Contract

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects within the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other

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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 on the day**,** month and year first before written in accordance with their respective laws.

_____	_____
(For and on behalf of Contractor)	(For and on behalf of Employer)
CNIC No. _____	

Signed, Sealed and Delivered in the presence of:

Witness (1):	Witness (2):
_____	_____
(Name, CNIC No. and Address)	(Name, CNIC No. and Address)

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GENERAL CONDITIONS OF CONTRACT

The "General Conditions" which form part of the "Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer (Red book) Second Edition 2017" published by the Federation Internationale Des Ingenieurs – Conseils (FIDIC) shall be used as the General Conditions in this particular Contract.

The Contractor, if desires, may at its own cost obtain, for reference, the original copy of the above FIDIC publication i.e. "Conditions of Contract for Building and Engineering Works Designed by the Employer" from FIDIC.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

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PARTICULAR CONDITIONS OF THE CONTRACT

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

PART A - CONTRACT DATA

Ref.	Data to be Given	Data
1.1.27	**Defects Notification Period (DNP)**	12 Months
1.1.31	**Employer's name and address:**	Director Engineering Services, *for* Pakistan Airports Authority Address: HQ PAA, Terminal I, Jinnah International Airport, Karachi
1.1.35	**Engineer's name and address:**	As notified by the Employer.
1.1.73	**Sections:**	As directed by the Engineer.
1.1.84	**Time for Completion:**	24 months for whole of the Works, whereas the time for completion of sections will be as determined by the Engineer, as the case may be.
1.3(a)	**Agreed methods of electronic transmission**	Email
1.3(d)	**Address of Employer for communications:**	As mentioned under sub-clause 1.1.31 of Contract Data.
	Address of Engineer for communications:	As mentioned under sub-clause 1.1.35 of Contract Data.
	Address of Contractor for communications:	_____ [insert Contractor's address at the time of signing of the Contract]
1.4	**Contract shall be governed by the law of**	Islamic Republic of Pakistan
	Ruling language	English
	Language for communications	English
1.8	**Number of additional paper copies of Contractor's Documents**	Six (06) copies
2.1	**After receiving the Letter of Acceptance, the Contractor shall be given right of access to all or part of the Site within:**	No later than the Commencement Date
2.4	**Employer's financial arrangements**	Funded by Provincial Government

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Ref.	Data to be Given	Data
3.2(e)(ii)	**Engineer's Duties and Authority**	Variation resulting in an increase of the Accepted Contract Amount in excess of one percent (1%) subject to accumulative Variations not exceeding five percent (5%) of the Accepted Contract Amoun
4.2	**Performance Security (as percentage of the Accepted Contract Amount in Currencies)**	5% (Five per cent) denominated in the currency(ies) of the Contract.
4.2	**Form of Performance Security**	The Performance Security shall be in the form of a surety bond callable upon demand issued by any reputable surety or insurance company.
4.2.1	**List of Insurance Companies**	Insurance Company in Pakistan having at least "AA" rating from PACRA
4.7.2	**Period for notification of errors in the items of reference**	Fifty-six (56) days
4.20	**Number of additional paper copies of progress reports**	03 (Three)
5.1(a)	**Maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount)**	30% (Thirty per cent)
6.5	**Normal working hours on the Site**	08 hours per day under normal circumstances
8.3	**Number of additional paper copies of programmes**	03 (Three)
8.8 & 14.15(b)	**Delay Damages payable for each day of delay**	0.01 % of the Accepted Contract Amount for delay in completion of whole of the Works
8.8	**Maximum amount of Delay Damages**	Ten percent (10%) of the Accepted Contract Amount
8.14	**Applicability of Incentives for Early Completion**	No
12.3	**Percentage for profit**	Ten percent (10%)
13.4.(b)(ii)	**Percentage rate to be applied to Provisional Sums for overhead charges and profit**	Twenty Five percent (25%)
14.2	**Total Advance Payment**	Fifteen percent (15%) of the Accepted Contract Amount excluding

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Ref.	Data to be Given	Data
		Provisional Sums payable in the currencies and proportions in which the Accepted Contract Amount is payable
14.2.1	**List of Insurance Companies**	Insurance Company in Pakistan having at least "AA" rating from PACRA
14.2.3	**Percentage deductions for the repayment of the Advance Payment**	Deduction shall be made at the amortization rate of 10% of the value of the Works executed of each IPC as provided in paragraph (i) of Sub-Clause GCC 14.3, starting from 2nd IPC provided that the advance payment shall be completely repaid prior to the time when 90% of the Accepted Contract Amount less Provisional Sums has been certified for payment. It may be more than 10% in the last installment to ensure full repayment.
14.3	**Period of payment**	one month
14.3(b)	**Number of additional paper copies of Statements**	Six (06)
14.3 (iii)	**Limit of Retention Money (as a percentage of the Contract Price)**	Five per cent (05%)
14.5(c)(i)	**Plant and Materials for payment when delivered to the Site**	Plant and Non-Perishable Materials for payment shall include: 1. Steel Reinforcement 2. Tile, Marble and Granite 3. Electric Cables
14.6.2	**Minimum amount of Interim Payment Certificate (IPC)**	Rs. 150,000,000.00 (Rupees One Hundred Fifty Million)
14.7(a)	**Period of payment of Advance Payment to the Contractor**	14 days
14.8	**Financing charges for delayed payment**	5% per annum
14.11.1(b)	**Number of additional paper copies of draft Final Statements**	Six (06)
14.15	**Currencies of payment of Contract Price**	PKR only
19.1	**Permitted deductible limits:** i) insurance required for the Works	i) Ten percent (10%) of loss amount on each & every loss

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Ref.	Data to be Given	Data
	ii) insurance required for the Goods	ii) Nil
	iii) insurance required for liability for breach of professional duty	iii) Nil
	iv) insurance required against liability for fitness for purpose (if any is required)	iv) Nil
	v) insurance required for injury to persons and damage to property	v) Workmen Compensation and Contractor's All Risk Policy
	vi) insurance required for injury to employees	vi) Workmen Compensation
	vii) other insurances required by Laws and by local practice	vii) Nil
19.1	**Periods for submission of insurance:** **a) evidence of insurance** **b) relevant policies**	Within twenty-eight (28) day from the Commencement Date
19.2.1(b)	**Additional amount to be insured (as a percentage of the replacement value)**	15% of the replacement value (Accepted Contract Amount)
19.2.3(a)	**Amount of insurance required for liability for breach of professional duty**	Full replacement value of the Works to be designed by the Contractor
19.2.3(b)	**Insurance required against liability for fitness for purpose**	Yes
19.2.3	**Period of insurance required for liability for breach of professional duty**	Until the date of issuance of Performance Certificate
19.2.4	**Amount of insurance required for injury to persons and damage to property**	Injury to person(s) including fatalities: in accordance with Workmen Compensation Act Damage to Property: as agreed by the Employer without limit to the number of incidents
19.2.6	**Other insurances required by Laws and by local practice**	All insurances as applicable, to the extent of execution of the project, under Federal and Provincial laws of Islamic Republic of Pakistan
21.1	**Time for appointment of the DAAB**	Within 28 days from the Commencement Date. In case the Accepted Contract Amount

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Ref.	Data to be Given	Data
		is lesser than PKR one (01) billion, appointment of the DAAB shall be made when Dispute arises between the Parties.
21.1	**the DAAB shall comprise**	"a sole Member" i.e. Deputy Director General (W&D), Pakistan Airports Authority
21.2	**Appointing entity (official) for DAAB members**	Director General Pakistan Airports Authority
21.6	**Rules of Arbitration**	Pakistan Arbitration Act of 1940, if the former is inactive. The place of Arbitration shall be Karachi, Sindh, Pakistan

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PART B – SPECIAL PROVISIONS

Note: Special Provisions shall always overrule and supersede the respective provisions of General Conditions of the Contract.

1.1 Definitions

1.1.76 "Specification"

Following is added at the end:

"and consists of two parts i.e.,

i) "Part A - Specific Provisions"; and

ii) "Part B - Technical Provisions"."

1.1.31 Employer

Add the following at the end of Sub-Clause 1.1.31:

"Employer's Representative" means Project Director Dalbandin, or any other person duly appointed by the Employer from time to time and notified in writing.

Employer's Representative, without prejudice to his authority, may delegate and distribute any or all his duties and powers to some or any officer(s) of Pakistan Airports Authority, for the convenience of the day-to-day required monitoring, administration and management of the Project and fulfilling the obligation of the Employer wherever and whenever deemed necessary under the Contract."

1.2 Interpretation

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

Sub-paragraph (k) is added:

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

1.5 Priority of Documents

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

(a) the Contract Agreement;
(b) the Letter of Acceptance;
(c) the Letter of Bid;
(d) the Special Conditions;
(e) the Particular Conditions Part B - Special Provisions;
(f) the Particular Conditions Part A - Contract Data;
(g) the completed Schedules to Bid including Bill of Quantities;

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(h) the Specifications Part A - Specific Provisions (if any);
(i) the Specifications Part B - Technical Provisions (if any);
(j) Bill of Quantities;
(k) the General Conditions;
(l) the Drawings; and
(m) any other documents forming part of the Contract.

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

1.6 Contract Agreement

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

2.1 Right of Access to the Site

In the last line of the 3rd paragraph the text "and/or payment of such Cost-Plus Profit" is deleted.

In the last line of the 4th paragraph the text "and/or Cost-Plus Profit" is deleted.

3.1 The Engineer

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

3.2 Engineer's Duties and Authority

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

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

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

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

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

(e) Sub-Clause 13.1 [Right to Vary]: instructing a Variation, except;

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

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

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

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

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

(i) Any Change in the ratio of Contract currency proportions and payment thereof under Clause 13.6 [Adjustment for Changes in Law].

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

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

Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Employer, with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Employer.

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

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

4.1 Contractor's General Obligations

Following sub-clauses are added:

4.1.2 Security Clearance of Workmen

The Contractor will be fully responsible to arrange security clearance and airport entry passes 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.

4.1.3 Enclosure of workspace during execution

The Contractor shall enclose the work / site area as per direction of the 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.

4.2 Performance Security

4.2.1 Contractor's Obligations

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

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The Performance Security shall be, at the option of the Contractor, issued in the prescribed form included in the Bidding Documents, by an Insurance Company in Pakistan having at least "AA" rating from PACRA.

In case of Joint Venture, the Performance Security shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.

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

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

4.3 Contractor's Representative

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

In 2nd line of 4th paragraph the text "or appoint a replacement" is substituted by "except appointment of a suitable temporary replacement is deployed at the Site"

4.4 Contractor's Documents

4.4.2 As-Built Records

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

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

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

Following Sub-Clause is added:

4.4.4 Shop Drawings

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

Review and approval by the Engineer shall not exceed 56 days and be construed as a complete check but will indicate only that the general method of construction and

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detailing is satisfactory and the Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

4.8 Health and Safety Obligations

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

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

4.20 Progress Reports

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

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

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

(k) salient contractual and project information.

5.1 Subcontractors

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

"under Schedule to Bid"

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

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

The Contractor shall give reasonable opportunity to contractors from Islamic Republic of Pakistan for subcontracts for the Works, and endeavour to employ such contractors as Subcontractors."

5.2 Nominated Subcontractors

5.2.2 Objection to Nomination

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

The following is then added as (iii):

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

6.7 Health and Safety of Personnel

The existing text is substituted with the following:

"In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorize or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose. The Contractor shall also provide all other medical services and appoint a health and safety officer at Site if stated in the Specifications. In case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means."

6.8 Contractor's Superintendence

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

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

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

"The Contractor's authorized representative and his other engineers working at site shall possess valid registration with the Pakistan Engineering Council.

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

The following Sub-Clauses 6.13 to 6.22 are added at the end of Sub-Clause 6.12:

6.13 Supply of Foodstuffs

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

6.14 Supply of Water

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

6.15 Measures against Insect and Pest Nuisance

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

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

6.16 Alcoholic Liquor or Drugs

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

6.17 Arms and Ammunition

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

6.18 Forced Labour

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

6.19 Child Labour

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

6.20 Workers' Rights

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

6.21 Funeral Arrangements

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

6.22 Non-Discrimination and Equal Opportunity

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

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or retirement, and disciplinary practices.

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

6.23 Epidemics

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

7.7 Ownership of Plant and Materials

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

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

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

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

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

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

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

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under this Sub-Clause."

8.1 Commencement of Works

The following is added before the first paragraph:

"After signing of the Contract Agreement by both Parties," and thereafter the word "The" is replaced with the word "the".

8.5 Extension of Time for Completion

The following is added after paragraph (c): "for last five years".

The following Sub-Clause 8.14 is added after Sub-Clause 8.13:

8.14 Incentives for Early Completion

If Contract Data does not state applicability of incentives for early completion, this Sub-Clause shall not apply.

The Contractor shall be entitled subject to Sub-Clause 20.2 [Claims for Payment and/or EOT] to bonus payment if the Works and/or each Section is completed earlier than the Time for Completion for the Works or Section (as the case may be). The amount of bonus for early completion of the Works and/or each Section shall be up to a limit and at a rate to 50% of the relevant limit and rate of delay damages prescribed in Contract Data and shall be paid for every day which shall elapse between the relevant Date of Completion of the Works or Section and the relevant Time for Completion.

For the purposes of calculating any bonus payment, the applicable Time for Completion stated in the Contract Data is fixed and no adjustments of this time by reason of granting an EOT will be allowed.

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

11.12 Supervisory Assistance During DNP

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

12.2 Method of Measurement

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

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

12.3 Valuation of the Works

In sub-paragraph (b)(i), the percentage '10%' is replaced with "25%"

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In sub-paragraph (b)(ii), the percentage '0.01%' is replaced with "2%"

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

"Sum of overhead charges and profit for sub-paragraph (a) shall be Twenty Five percent (25%)".

13.6 Adjustments for Changes in Laws

The following paragraphs are added at the end of the Sub- Clause:

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

14.2 Advance Payment

14.2.1 Advance Payment Guarantee

The entity issuing the Advance Payment Guarantee and its form shall be as under:

The Advance Payment Guarantee shall be in the form of an Insurance Guarantee issued by an Insurance Company in Pakistan having at least "AA" rating from PACRA.

Advance Payment Guarantee shall remain valid one month beyond the stipulated date of completion of project.

In case of Joint Venture, the Advance Payment Guarantee(s) shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.

14.6 Issue of IPC

14.6.1 The IPC

In the first line of the 1st paragraph the words "28 days" are substituted by "14 days".

14.7 Payment

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

14.8 Delayed Payment

In the first paragraph, third line, the words "compounded monthly" are deleted.

The text of 2nd paragraph is deleted and substituted with the following:

"The Employer shall pay to the Contractor compensation at the rate stated in the Contract Data."

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15.2 Termination for Contractor's Default

15.2.1 Notice

Following text is added at the end of sub-paragraph (h) of this Sub-Clause:

"For the purposes of this Contract, corrupt and fraudulent practices have been defined in Public Procurement Rules 2026."

15.2.3 After Termination

The word "and" at the end of sub-paragraph (ii) of paragraph (b) is deleted the following paragraph is added after sub-paragraph (iii):

"(iv) all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [Employer-Supplied Materials and Employer's Equipment], and"

15.4 Payment after Termination

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

"The Employer shall be entitled to sell any of the Contractor's Equipment, Temporary Works and unused materials and apply the proceeds of sale towards payment of any debt due from the Contractor to the Employer under this Clause including any outstanding payments to the Subcontractors.

16.2 Termination by Contractor

16.2.1 Notice

The sub-paragraph (j) is deleted in its entirety.

At the end of sub-paragraph (i) "; or" is replaced with "." and at the end of sub-paragraph (h) ";" is replaced with "; or".

In sub-paragraph (f) "84 days" are replaced with "180 days" and text "for reasons not attributable to the Contractor" is added at the end.

16.3 Contractor's Obligations After Termination

Sub-paragraph (c) is deleted and replaced with:

"(c) deliver to the Engineer all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [Employer-Supplied Materials and Employer's Equipment]; and

(d) remove all other Goods from the Site, except as necessary for safety, and leave the Site."

17.1 Responsibility for Care of the Works

After the two instances of "Goods" in the last paragraph, the words "Employer-Supplied Materials and/or Employer's Equipment" are added.

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The following Sub-Clauses 17.7 and 17.8 are added after Sub-Clause 17.6:

17.7 Back-charge

If, under the provisions of this Contract, the Contractor is notified by the Engineer to correct defective or nonconforming work, and Contractor states or by its actions indicates that it is unable or unwilling to proceed with corrective action in a reasonable time, the Engineer or Employer may, upon written notice, proceed with or cause to accomplish the redesign, repair, rework or replacement of nonconforming work by the most expeditious means available and back-charge Contractor for the costs incurred. Furthermore, if the Engineer or Employer agrees to or is required to perform work or cause the work to be performed for Contractor, such as clean up, off-loading or completion of incomplete work etc., the Engineer or Employer may, upon written notice, perform such work by the most expeditious means available and back-charge the Contractor for the costs incurred.

Employer shall separately invoice or deduct from payments otherwise due to Contractor the costs as provided herein. Employer's right to back-charge is in addition to any and all other rights and remedies provided in this Contract or by law. The performance of back-charge work by the Engineer or Employer shall not relieve Contractor of any of its responsibilities under this Contract including but not limited to express or implied warranties, specified standards for quality, contractual liabilities and indemnifications, and the Contract schedule.

17.8 Use of Employer's Accommodation/ Facilities

The Contractor shall take full responsibility for the care of the items of the Employer's facilities and/or accommodation, if any, as detailed in the Specification, from the date of use and/or occupation by the Contractor until the date on which such use and/or occupation is re-vested in the Employer.

If any loss or damage happens to any of the above items during a time while the Contractor is responsible for its care, arising from any cause other than a cause for which the Employer is responsible or liable, the Contractor shall promptly rectify the loss or damage at the Contractor's risk and cost.

18.1 Exceptional Events

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

18.4 Consequences of an Exceptional Event

The following is added at the end of sub-paragraph (b) after deleting the ".":

", including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Exceptional Events, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 19.2 [Insurance to be provided by the Contractor]."

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18.5 Optional Termination

In sub-paragraph (c), the words "and necessarily" are added after the words "was reasonably".

19.1 General Requirements

Following text is added at the end of first paragraph:

"The Contractor shall immediately after the date of the Letter of Acceptance submit the draft of insurance policies for the Employer's consent."

Following text is added at the end of third paragraph:

"The Contractor shall, within the respective periods stated in the Contract Data submit to the Engineer and the Employer a) evidence that the insurances described in this Clause have been effected, and b) copies of policies of the insurances described in Sub-Clauses 19.2.1, 19.2.4 and 19.2.5."

19.2 Insurance to be provided by the Contractor

19.2.5 Injury to employees

The words "sickness, disease" are deleted in the third line of first paragraph.

The following Sub-Clause is added after Sub-Clause 19.2.6:

19.2.7 Insurance Company

"The Contractor shall be obliged to place all insurances described in this Clause with insurers listed in the Contract Data and rated by PACRA as "AA".

21.6 Arbitration

The word "international" is deleted in the sixth line of first paragraph. The text of sub-paragraph (a) is substituted with the following:

"the Dispute shall be finally settled under the Rules of Arbitration, specified in the Contract Data;"

The following Clauses are added after Clause 21

22 Customs Duty

The Contractor shall be liable to pay custom duty arising out of the Contract. The rates and prices as stated in the contract shall be deemed to cover all such duties.

23 Taxes

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

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23 Integrity Pact

If it is found and established at any stage that the Contractor or any of his Subcontractors, agents or servants have violated or involved in violation of the Integrity Pact signed by the Contractor then the Employer shall be entitled to :

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

(b) terminate the Contract; and

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

The termination under sub-paragraph (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clause 15.1 to

15.4 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the Employer under sub- paragraph (a) and (c) of this Sub-Clause.

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SPECIAL CONDITIONS OF THE CONTRACT

1. General

"Special Conditions of the Contract" shall form an integral part of the Contract.

The Contractor shall notify all sub-contractors of the provisions of these Special Provisions.

2. Codes, And Standards

2.1 Applicable Standards

Except as otherwise provided in the Drawings, all materials, equipment and fabrication and testing thereof shall conform to the latest relevant applicable standards and codes.

If the Contractor, at any time and for any reason, wishes to deviate from the above standards or desires to use material or equipment not covered by the above standards, he shall state the exact nature of the changes, the reason for making the change and shall submit complete specifications of the materials and equipment to the Engineer for approval.

2.2 Standards Other than those Specified

Where requirements for materials or equipment are specified by reference to a standard which has its origin in one country, it is not the intention to restrict the requirements solely to that standard and that country.

Other standards, including standards of other countries will be accepted provided the requirements thereof, in the sole opinion of the Engineer, are at least equal to the requirements of the standard specified.

The Contractor may propose to the Engineer an equivalent standard other than that specified. In which case he shall submit the proposed standard and all other information required and shall submit written proof that his proposed standard is equivalent in all significant respects to the standard specified.

2.3 Materials to Meet the Requirements

The Contractor shall provide manufacturer's or supplier's materials which must meet the requirements of a specific code or standard as stated in these specifications.

3. Specification Epilogues

3.1 The Work(s) comprising the Contract, shall be constructed, completed and guaranteed, strictly conforming to and in accordance with the stipulated specifications for execution of such works, providing of materials/services and etc. as provided in the Contract Documents and or as directed by the Engineer.

3.2 In the event of missing / non-availability of particular specification(s) applicable to or to govern the execution of such item(s) of works / contract hereof, having no effect or bearing upon the rate / price or valuation of the contract, the relevant standard specifications of particular application from the following sources / standards / codes

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shall be consulted / applied thereto, as required and the contractor shall be obliged to strictly follow the instructions issued by the Engineer, in this regard:

a) Except as otherwise provided in the Contract Documents, all material, fabrication, execution and testing thereof shall conform to the applicable standards, codes / specifications contained in the Clause 2 hereinbefore.

b) If the Contractor. at any time and for any reason, wishes to deviate from the above standards or desires to use material or equipment not covered by the above standards/codes, he shall state in writing the exact nature of change/substitution/ replacement, the reason for making: such change, and shall submit complete detailed(illustrated) specifications of the materials services and the equipment and etc. to the Engineer for his express approval, at least seven days before the actual use at the site, subject to such rate/price or valuation adjustments, decided by the Engineer. Such cost decision/adjustment shall be conclusive and binding on the Contractor.

4. Method of Measurement and Basis of Payment

In all cases payment shall be made only on the basis of the net quantities of work done. It is up to the Contractor to calculate and make allowance for any or all such wastage in establishing the unit rates or price for the items of the Works.

5. Payment For Works Defined in the General Specifications

No payment shall be made for the works involved within the scope of this section of specification unless otherwise specifically stated in the Bills of Quantities or herein.

The cost thereof shall be deemed to have been included in the total price quoted by the Contractor.

6. Existing Condition at Site

Drawings and information pertaining to existing project conditions are furnished for reference. Neither the Employer nor the Engineer warrants the adequacy or correctness of these. The Bidders are encouraged to visit the project site to assess the existing site conditions.

7. Coordination With Other Contractors

The Contractor shall take cognizance that during the execution of the project, other Contractor(s) could be working concurrently on this site. It shall be the responsibility of the Contractor to keep-up good relations with other Contractors employed on site by the Employer. The Contractor shall cooperate and coordinate his work with that of the other Contractors working at the Site, to whatever extent may be necessary to complete the Project in accordance with the approved programme of the Works and in accordance with the Engineer's instructions. Should a disagreement or dispute arise between the Contractor and other contractors, the same shall be referred without delay to the Engineer for his decision. Upon such decision, the Contractor shall proceed with the work in accordance therewith. In case the access to the works of other contractors is

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through the Site area of the Contractor, the Contractor shall coordinate with and permit all reasonable access to other Contractors.

All works of his responsibility shall be coordinated by the Contractor so as to give the necessary facilities to other Contractor(s) or their workmen, who execute or supervise any work on the site. The Contractor shall ensure that the necessary safety precaution will be observed and interferences shall be avoided specially for the works executed side by side by different Contractors.

No payment shall be made to the Contractor for the works involved under this sub clause.

8. Protection And Precautions

The Contractor shall barricade / cordon of the work place / area with approved material, as per the directions and entire satisfaction of the Engineer at his own cost. He will also indentify the construction area and will ensure safety of workers, during and after working hours, for which no compensation will be claimed by the Contractor.

The Contractor and his sub-contractors shall afford all necessary protection to existing structures and will be required to make good at their own expense any debris or damage done to such structures through their own or his representatives or subcontractors' fault and negligence.

Contractor must at all-time ensure the free and normal flow of traffic and shall not cause obstruction to the traffic system. The Contractor and his sub-contractors shall provide and maintain necessary protection and precautionary measures such as warning signs, warning lamps and barricades etc. to prevent accidents. All warning signs shall be in either English or Urdu, and shall at all times be maintained in a clean and legible condition, to the satisfaction of the Engineer.

The Contractor shall promptly correct all such damage to original condition at no additional expense to the Employer.

Safety measures such as wearing of helmet, gloves, long shoes, safety glasses for welder and dungarees etc. be ensured during working hours as per QSHE Standards / parameters, as per attached HSE Manuals.

Trash shall be removed at frequent intervals to the satisfaction of the Engineer.

9. Protection of the Works

No work is to be undertaken when, in the opinion of the Engineer, the weather is so unsuitable that proper protection of the works cannot be ensured.

The Contractor shall whenever necessary cover up and protect the works from weather and damage by his own or other workmen performing subsequent operation. The Contractor shall provide all necessary dustsheets. barriers and guard rails and clear away the same at completion.

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10. Sequence of Construction

The Contractor shall, for approval of the Engineer, submit his proposal regarding the sequence of Construction, prior to starting the works. The works shall be executed as per approved sequence of construction.

11. Notification to Engineer

The Engineer shall be notified in writing on weekly basis of the nature and location of the Works the Contractor intends to perform in the next week so as to enable necessary inspection and measurement to be carried out. The Engineer may, if necessary, direct that longer notice be given of certain operations.

12. Construction Schedule

A Construction schedule shall be maintained in accordance with the provisions of the General Conditions of Contract.

The schedule shall be accompanied with sufficient data and information including all necessary particulars of constructional plant, equipment machinery, temporary Works, arrival of plant. equipment at site and their installation, method of operation, work forces employed, etc., for activities of the Works.

Should the Engineer consider any alteration or addition in the programme and time schedule, the Contractor shall conform thereto without any cost to the Employer.

Whenever the progress of the actual works shows departure from the baseline schedule, the programme and time schedule shall be undated and submitted to the Engineer for his approval.

13. Partial Possession of Works by the Employer

Whenever, as determined by the Employer any portion of work performed by the Contractor is in a condition suitable for use, the Employer may take possession of or use such portion.

Such use by the Employer shall in no instance be construed as constituting final acceptance, and shall neither relieve the Contractor of any of his responsibilities under the Contract, nor act as a waiver by the Employer of any of the conditions thereof, provided that the Contractor shall not be liable for the cost of repairs, re-work, or renewals which may be required due to ordinary wear and tear resulting from such use. However, if such uses increase the cost or delays to the completion of remaining portions of work, the Contractor will be entitled to an equitable adjustment in the form of Time extension only.

If, as a result of the Contractor's failure to comply with the provisions of the Contract, such use proves to be unsatisfactory. the Employer will have the right to continue such use until such portion of the work can, without injury to the Employer, be taken out of service for correction of defects, errors, omissions, or replacement of unsatisfactory materials or equipment, as necessary for such work to comply with the Contract; provided that the period of such operation or use pending completion of appropriate

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remedial action shall not exceed twelve months unless otherwise mutually agreed upon in writing between the parties.

14. Existing Services

The Contractor shall search for, find, locate and protect any wiring, cable, duct, pipe work, etc., within or immediately adjoining the site area.

The Contractor shall take full responsibility for safety of existing service lines, utilities and utility structures uncovered or encountered during excavation and construction operations.

The Contractor shall take full responsibility for damaging any such service lines, utility / utility structure and any cost and / or expense that arises or issues from any such damage shall be borne directly by himself. Should any damage to any such service occur the Contractor shall forthwith take remedial action, initiate safety precautions, install temporary services and carryout repairs, all at his own cost and expense and inform the Engineer and notify all relevant authorities.

Existing utilities which are to remain in service for or after the works are to be determined by the Contractor. If any existing service lines, utilities and utility structures which are to remain in service are uncovered or encountered during these operations, they shall be safeguarded, protected from damage, and supported. The Contractor shall preserve, maintain and keep in perfect working conditions, any existing facilities required to be preserved by the Employer / the Engineer.

15. Storage and Handling Facilities

The Employer will provide the Contractor possible space within or nearby the area of site of works for the storage of plant, equipment and materials and for Contractor's temporary office, during the currency of the Contract. In case the adjacent area as required by the Contractor is not available within the Project boundary for storage of plant, equipment and machines then the Contractor shall arrange at his own expense possible space for storage of plant, equipment and machines at his own cost and expense. On no account shall such temporary installations conflict / interfere with any of the permanent installations, services and any operational function of Employer. The handling and storage of all plants, equipment and materials at site shall be the sole responsibility of the Contractor and at no risk and cost to the Employer.

The Contractor shall protect all material against corrosion, mechanical damage or deterioration during storage and erection on site. The protection methods shall be subject to the approval of the Engineer.

16. Suspension of Work / Idleness of Construction Machinery

Partial / complete suspension in work is likely to take place during emergency operations and VIP / VVIP movements etc. Labour, equipment / machinery and material etc. should be removed from site for work during such suspension period to a distance for essential security arrangements. No compensation, whatsoever, on this

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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. However, extension of time may be given based on the duration and nature of reasons due to which suspension of works is caused.

17. Execution and Inspection of Works

The Contractor shall submit to the Engineer in due time for approval and discussion, his proposals and plans as to the method and procedure to be adopted for the temporary and permanent works involved. The submitting to these suggestions and arrangements, and the approval thereof by the Engineer shall not relieve the Contractor of his responsibilities and duties under the Contract.

The carrying out of all work included in the Contract is to be supervised by a sufficient number of qualified representatives of the Contractor and full facilities and assistance are to be afforded by the Contractor for the Engineer or his Representative to check & examine the execution of the work.

The Engineer reserves the right to inspect all parts of the works but may at his discretion waive inspection on certain items. This shall in no way absolve the Contractor from his responsibilities. This particularly applies to the checking of materials, the accurate setting out of foundations, and to the leveling, setting and aligning of the various parts, and to the proper fitting and adjustment of manufactured and finished materials and fixtures in position.

If the Engineer or his Representative find that the work progress is slow in such a way that the works or parts thereof will not be completed in the time specified, then he shall order the Contractor to work overtime or in shifts and the Contractor shall comply. These arrangements of contractor will be free of all financial encumbrances and at no additional costs to the Employer.

In the event of night work, the Contractor shall provide sufficient and adequate lighting to the satisfaction of the Engineer or his Representative and shall supply the necessary manpower for satisfactory continuation of the work after normal hours.

18. Contractor to Notify Delays Etc.

Any event that will likely result in delaying the completion of works shall be notified by the Contractor along with detail of actions being taken by him for timely completion of the works.

19. Manufacturer's Recommendations

Installation of manufactured items shall be in accordance with procedures recommended by the manufacturer or as approved by the Engineer.

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20. Product Data

Manufacturer's catalogue sheets, brochures, diagrams, schedules, performance charts, operations and maintenance manual, illustrations and other standard descriptive literature shall be clearly marked to identify pertinent materials products or models. Dimensions and required clearances shall be indicated. Shop performance characteristics and capacities shall be noted.

21. Inspection & Tests Reports

All equipment and materials furnished under these specifications and all work performed in connection therewith will be subject to rigid inspection by the Engineer or the Engineer's Representative. Acceptance of equipment and material or the waiving off inspection thereof shall in no way relieve the Contractor of his responsibility for meeting the requirements of the Contract.

The Contractor shall furnish to the Engineer test reports of all materials used in the manufacture and fabrication of all equipment and material. The result of these tests shall be in such form as to show compliance with the applicable specifications, standards and codes for the material used.

The cost of testing charges for materials / equipment used in the Works as required under the technical specifications under this Contract from any laboratory designated by the Engineer shall be deemed to have been included in the Accepted Contract Price and no separate claim for payment on this account shall be entertained by the Engineer.

Furthermore, the cost of, any additional laboratory, field and shop tests required through the resubmission of samples because of failure of compliance with Specifications shall be borne by the Contractor.

22. Setting Out of Work and Survey

The Contractor shall provide experienced construction surveyor(s) with adequate experience in the construction surveys similar in nature as required by this Contract.

The Contractor shall establish benchmarks and / or reference lines at the Site in accordance with the instructions of the Engineer. The Contractor shall set out its work from these benchmarks and lines. The Contractor shall supply plant, equipment, materials and labour for checking, if required of the survey control by the Engineer. Slope stakes will be set by the Contractor before commencement of excavation and will be re-established as required during progress of work using established bench-marks and reference points.

The Engineer may make checks as the work progresses to verify lines and grades established by the Contractor and to determine the conformance of the work as it progresses with the requirements of the Drawings and Specifications. Such checking by the Engineer shall not relieve the Contractor of his responsibility to perform the works in accordance with the Drawings and Specifications and the lines and grades given therein.

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The Contractor shall be responsible for maintaining all survey markers / monuments, and property corners. If any markers / monuments are destroyed by the Contractor, the Contractor shall arrange, at his own cost, to retrace and replace them to the entire satisfaction of the Engineer.

The Contractor shall perform such surveys and computations as are necessary to determine quantities of work performed or placed during each progress payment period, and shall also perform all surveys necessary for the Engineer to determine final quantities of work in place. The Engineer will determine final quantities based on original ground levels determined by the Contractor and agreed by the Engineer.

The cost of all materials, equipment, surveyors and labour required for surveys for the Works and quantity surveys required by this clause shall be deemed to be included in the rates and prices of the various items in the Accepted Contract Price and no separate measurement and payment in their respect shall be made.

23. Surveying Instruments

The Contractor shall maintain the following surveying equipment, which shall be available at site of Works along with qualified Surveyors and Survey Helpers.

a) Total Station with level staff 03 No.

b) Automatic Levels with tripods & levelling staff 05 Nos.

c) All other miscellaneous tools, equipment and materials required in surveying.

The equipment shall be in good working condition and maintained throughout the Contract Period, and replaced by the Contractor in case of damage or loss. The survey equipment shall be made available to the Engineer when requested.

24. Approval of Materials and Plant

24.1 Quality of Materials

All materials, fixtures, fittings, supplies and plant furnished under the Contract shall be new and unused, standard first grade quality and of the best workmanship and design. No inferior or low-grade materials, supplies or articles will be either approved or accepted, and all work of assembly and construction shall be done in a first-class and workman like manner. In asking for prices for materials intended for delivery to the Site and incorporation in the Works under any portion of these Specifications, the Contractor shall provide the manufacturer or supplier with complete information as may be necessary to secure compliance to this clause.

24.2 Submission of Samples and Data

The Contractor shall furnish for approval of the Engineer with reasonable promptness all samples as called for in the Specifications and in accordance with the time provided in the schedule of submittals. The Engineer shall check and approve such samples with reasonable promptness only for conformance with the design concept of the Works and

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for compliance with the information given in the Contract Documents. All work shall be in accordance with approved samples.

Samples shall be furnished so as not to delay actual execution, and allowing the Engineer reasonable time for consideration of the sample submitted.

Each sample shall be properly labeled with the name and quality of the material, manufacturer's name. name of the project, the Contractor's name and the date of submission, and the Specifications Article number to which the sample refers.

The manufacturer's installation directions shall be provided with each sample. The Contractor shall pay transportation costs and deliver samples to the Engineer's office, Site or testing laboratory as directed by the Engineer.

Samples shall be of adequate size to permit proper evaluation of the material by the Engineer. Where variations in colour, texture, dimensions or other characteristics are to be expected, the Contractor shall submit samples showing the maximum range of variation. Materials exceeding the range of variation of the approved samples shall not be used on the Work.

In order to permit coordinated selection of colours and finishes, the Contractor shall deliver samples of all related items to the Engineer at one time. Samples of such materials will not be approved until all related samples have been submitted.

If both Shop Drawings and samples are required for the same item the Engineer may require both to be submitted before approving either.

No acceptance or approval of any Shop Drawings or sample. or any indication or request by the Engineer on any Shop Drawings shall constitute an authorization for any increase in the Contract Sum.

24.3 Inspection

All material and Plant furnished and all work performed under this Contract will be subject to inspection by the Engineer at all times and in all states of completion both off-Site and on-Site. The Contractor shall furnish promptly without additional charge, all facilities, labour and materials reasonably needed for performing such inspection and testing as may be require by the Engineer.

24.4 Approved Sample at Site

The Contractor shall, at all times, keep on the Site approved samples. All such samples shall be made available to the Engineer as and when required.

25. Witnessing of Factory Acceptance Tests

Factory acceptance tests of Plant and/or Material procured within or outside the country shall be witnessed by the personnel of the Employer and the Engineer, and all costs and expenses incurred in connection with such witnessing by the Employer and the Engineer shall be borne solely by the Contractor, including, without limitation, inland transportation, visa fees and related charges, air travel from Pakistan to the place of inspection/testing and return, hotel accommodation, boarding and lodging (on an actual

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cost basis), and daily allowance at the rate of Rs. 15,000/- per person per day for inspection/testing conducted within Pakistan and at the United Nations Daily Subsistence Allowance (DSA) rates for inspection/testing conducted outside Pakistan, in each case for every visit of each person engaged in witnessing such tests.

26. Drawings

26.1 Bid Drawings

Bid Drawings issued with the Bid Documents, called the Bid Drawings, show scope of works for Contractor's reference only, and are not to be construed as actual construction drawings unless specified.

26.2 Shop Drawings

The Contractor shall submit to the Engineer for review three (3) copies of all drawings to be issued for setting out, fabrication, supply order and construction; based on data, requirements, dimensions, details code, standards and design provided in the drawings issued by the Employer. Such drawings shall be submitted fourteen (14) days before they are required for use. If within a period of fourteen (14) days after submission, the Engineer notifies the Contractor that a drawing fails to comply with the relevant of the Contract, it shall be rectified and resubmitted for approval at the Contractor's cost. Construction shall not commence on any part of the Works until the shop drawings or construction drawings for that part of the Works have been approved by the Engineer.

The work shall be executed in accordance with the shop drawings as approved by the Engineer. If there is a need to modify any approved drawings the Contractor shall immediately notify the Engineer and submit for approval. If the Engineer instructs that further drawings are necessary for executing Contractor shall prepare such drawings and submit them for approval.

Approval by the Engineer, in accordance with this paragraph, shall not relieve the contractor of any of his responsibilities under the Contract.

The shop drawings shall properly indicate the part of Works, name of the Contractor, date of preparation and the dates of all revisions. The Shop Drawings shall show the design dimensions, proposed materials to be used, finishes, and all other details in connection thereto.

Contractor shall be responsible to submit the shop drawings on a schedule that allows reasonable time for checking and approval and subsequent fabrication. Failure to submit shop drawings in ample time for checking, correcting, and rechecking will not justify extension of time for completion of the Works.

26.3 As-Built Drawings

The Contractor shall, at all times, keep on Site a separate set of prints of all drawings on which all significant changes between the work shown on the Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses.

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The Contractor shall, within fourteen (14) days of issuance of Taking-Over Certificate for whole of the Works, furnish to the Engineer for his approval two (2) copies of such marked updated drawings. One (1) copy of each of the mark drawing approved by the Engineer shall be returned to the Contractor by the Engineer and these shall be used for the preparation of the As-Built Drawings.

The Contractor shall furnish to the Engineer six (6) complete sets and one reproducible copy of all As-Built Drawings within twenty-eight (28) days of receipt of drawings stated above, from the Engineer.

27. Submission Requirements

Schedule submission at least ten (10) days before the dates when reviewed submittals will be needed. Submit Shop Drawings as per provision given in Sub-Clause 25.2 before and number of copies of Product Data which the Contractor requires for distribution plus one copy which will be retained by the Engineer.

(a) Submit three samples unless otherwise specified.
(b) Accompany submittals with transmittal letter, in duplicate containing:
(c) Date
(d) Project title
(e) Contractor's name and address
(f) The number of each Shop Drawing, Product Data and the Sample submitted.
(g) Notification of deviations from Contract Documents.
(h) Other pertinent data.

28. Facilities and Services for the Employer and the Engineer

28.1 General Obligations

The Contractor shall, at its own cost and as part of the Contract, provide, install, furnish, equip, operate, service, maintain and, where necessary, repair or replace the facilities and services specified in this Clause for the exclusive use of the Employer's Personnel and the Engineer throughout the period from the Commencement Date until the issue of the Performance Certificate. The Contractor shall provide the facilities specified in Sub-Clauses 28.2 to 28.4 within thirty (30) days after the signing of the Contract Agreement or the Notice to Commence, whichever is earlier. The Contractor shall obtain the prior written approval of the Employer and the Engineer for the layout, design, inventory, specifications and details of all facilities, furniture, equipment and accommodation before construction. No payment shall be made to the Contractor for the works, facilities or services provided under this Clause; the cost thereof shall be deemed to be included in the Accepted Contract Price.

28.2 Site Offices, Furniture and Office Equipment

(a) Site Office Building. The Contractor shall design and construct, at the Site, a single combined office building, in accordance with a layout approved by the Employer and the Engineer, comprising: one (1) appropriately sized office room for the Engineer with

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an attached toilet; four (4) appropriately sized office rooms for the Employer with attached toilets; one (1) common office for staff; one (1) kitchen and dining facility; and such additional toilets, circulation areas and ancillary spaces as are necessary for the proper use of the building. The building shall be appropriately sized to accommodate the approved occupancy, at-least two-storeyed, with a covered floor area of not less than 2,500 square feet, and shall be of robust construction, adequately insulated, weatherproof, properly ventilated and air-conditioned (heating and cooling), suitable for year-round use under the prevailing climatic and environmental conditions at the Site, and complete with electrical sockets, distribution boards, associated cabling, internal and external lighting, plumbing, drainage and a backup generator set of sufficient capacity to support the full electrical load.

(b) Furniture and Fittings. The building shall be furnished, as a minimum, with: four (4) executive office tables with chairs for the Engineer's and Employer's offices including all ancillary facilities like TV, telephone, and other furnishings etc.; one (1) conference table with twelve (12) chairs, (03) 85" UHD TV screen; fifteen (15) staff workstations with chairs; thirty (30) visitor chairs; fifteen (15) steel filing cabinets; (06) staff desks with chairs and complete kitchen and dining furniture and appliances, together with all other fixtures and fittings necessary for a fully operational office environment.

(c) Common Obligations. The Contractor shall undertake grading and preparation of the area, including hard and soft landscaping, in and around the building; maintain the building and all furniture, fixtures and equipment therein, including repair and replacement; supply all office supplies, consumables, replacements, office stationery and POL for the generator set; hire and maintain staff for cleaning and security; and provide cold drinking water, potable water for sanitation, internet facility and landline telephone connections.

(d) Office Equipment for the Engineer. The Contractor shall provide, within thirty (30) days from the signing of the Contract Agreement, the following new office equipment for the use of the Engineer, maintained (including the supply of consumables such as printer cartridges, paper and toner) until the issue of the Performance Certificate: three (3) laptop computers (of approved make latest generation Core Ultra 9 / M5 Pro, 32 GB RAM, 2 TB SSD, 14-inches or larger FHD display, licensed OS, and licensed MS Office 365); two (02) desktop computers (of approved make latest generation Core Ultra 7, 16 GB DDR5 RAM, 1 TB SSD, integrated or discrete graphics, 27-inches IPS monitor, wireless keyboard and mouse, licensed Windows 11 Pro and MS Office 365); three (3) 3-in-1 laser printers (copier, scanner and printer, A4 duplex, network-ready, HP or Canon or approved equivalent), all computers and laptops being connected to the printers through networking; one (1) A3 flatbed document scanner with duplex automatic document feeder or approved equivalent; and one (1) commercial-use A3 photocopier (Canon, Ricoh, Kyocera or approved equivalent), all computers and laptops being connected to the photocopier through networking.

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(e) Office Equipment for the Employer. The Contractor shall provide, within thirty (30) days from the signing of the Contract Agreement, the following new office equipment for the use of the Employer, maintained (including the supply of consumables such as printer cartridges, paper and toner) until the issue of the Performance Certificate: four (04) laptop computers (of approved make latest generation Core Ultra 9 / M5 Pro, 32 GB RAM, 2 TB SSD, 14-inches or larger FHD display, licensed OS, and licensed MS Office 365); five (5) desktop computers (of approved make latest generation Core Ultra 7, 16 GB DDR5 RAM, 1 TB SSD, integrated or discrete graphics, 24-inch IPS monitor, wireless keyboard and mouse, licensed Windows 11 Pro and MS Office 365); three (03) 3-in-1 laser printers (copier, scanner and printer, A4 duplex, network-ready, HP or Canon or approved equivalent), all computers and laptops being connected to the printers through networking; one (1) commercial-use A3 photocopier (Canon, Ricoh, Kyocera or approved equivalent); one (1) commercial-use A3 colour photocopier (Canon, Ricoh, Kyocera or approved equivalent); two (2) A3 flatbed document scanners with duplex automatic document feeders or approved equivalent, all computers and laptops being connected to the photocopiers through networking.

(f) Ownership and Handover. The building, office equipment and all furniture, fixtures and fittings provided under this Sub-Clause shall become the property of the Employer upon the issue of the Performance Certificate and shall be handed over in serviceable condition, free from all encumbrances and reasonably free from defects, except for normal wear and tear acceptable to the Employer, the Contractor rectifying any deficiencies identified by the Employer prior to formal handover.

28.3 **Transport**

(a) Vehicles for the Engineer. The Contractor shall provide, within thirty (30) days from the signing of the Contract Agreement, the following brand-new vehicles of the latest model, complete with all standard OEM features and accessories, for the exclusive use of the Engineer and the Engineer's Personnel with drivers: one (1) Suzuki Swift GL CVT 1200cc automatic or approved equivalent; and one (1) 70cc motorcycle (Honda CD 70 or approved equivalent).

(b) Vehicles for the Employer. The Contractor shall provide, within thirty (30) days from the signing of the Contract Agreement, the following brand-new vehicles of the latest model, complete with all standard OEM features and accessories, for the exclusive use of the Employer with drivers: two (2) Toyota Hilux Revo Double Cabin 4x4 (GR) or approved equivalent; one (1) Toyota Hi-ace 2.8 Deluxe (minimum 13-seater) or approved equivalent; and two (2) 70cc motorcycles (Honda CD 70 or approved equivalent).

(c) Common Transport Obligations. In respect of all vehicles provided under sub-paragraphs (a) and (b), the following shall apply: the vehicles are provided on a rental basis only, and title to and ownership of all such vehicles shall at all times remain with the Contractor; the Contractor shall bear all costs relating to provision, registration,

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taxes and duties, comprehensive insurance (including third-party liability, property damage, bodily injury, death and all other applicable risks, from an insurer having a minimum financial strength rating of AA+ or equivalent), maintenance and repair (at authorized service centres only, in accordance with OEM-recommended frequency), fuel and lubricants, and drivers' remuneration throughout the Construction Period and until the issue of the Performance Certificate; the Contractor shall bear full responsibility for the provision and cost of fuel for all vehicles, and shall maintain complete and accurate records of all fuel procured and consumed; if any vehicle remains out of service for a continuous period exceeding one (1) week for any reason, the Contractor shall, at its own cost and without additional liability to the Employer, immediately provide an equivalent replacement vehicle of similar type, capacity and condition until the original vehicle is restored to service; and upon the issue of the Performance Certificate, the Contractor shall remove the vehicles from the Site, and no transfer of ownership of any vehicle to the Employer shall take place.

28.4 **Accommodation**

The Contractor shall provide, in the aggregate, fully furnished accommodation sufficient for the Employer's Personnel, comprising not fewer than five (5) bedrooms and one (1) servants quarter, on a plot of not less than 2,800 square feet. The unit shall be complete with kitchen, dining and common areas, and all ancillary spaces necessary for comfortable residential use. The accommodation unit shall be situated at a site approved by the Employer, fully air-conditioned (heating and cooling) and fully furnished and equipped, including beds, sofas, dining tables, chairs, curtains, linen, blankets, kitchen utensils and household appliances, with efficient drainage, sanitation, potable water, gas, internet and twenty-four (24) hour electricity, including backup generator(s) with POL for the complete electrical load. The Contractor shall bear the cost of providing cooks, sweepers, helpers and security guards for this unit. The unit shall be provided and maintained by the Contractor until the issue of the Performance Certificate, upon which the unit, together with all furniture, fixtures, appliances, equipment, generators and other items installed therein shall become the property of and be transferred to the Employer without additional cost, free from all encumbrances and in good working order, properly maintained and reasonably free from defects, except for normal wear and tear acceptable to the Employer.

28.5 **Operation, Maintenance and Replacement**

The Contractor shall be fully responsible for the continuous operation, upkeep and maintenance of all facilities provided under this Clause until the issue of the Performance Certificate, including preventive and corrective maintenance, repair and replacement of defective, damaged, worn-out or unserviceable furniture, equipment, fixtures, fittings, electrical installations, air-conditioning units, plumbing systems, communication systems, generators and all other facilities. No additional payment shall be made for any repair, maintenance or replacement necessary to maintain the facilities in a safe, clean, fully functional and satisfactory condition. All facilities shall be

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operated and maintained in fully functional condition until the issue of the Performance Certificate or such other date as the Employer may instruct.

28.6 **Measurement and Payment**

The cost of providing, operating and maintaining the facilities and services under this Clause throughout the Construction Period and until the issue of the Performance Certificate, including the fuel supplied under Sub-Clause 28.3 and the rental of vehicles thereunder, shall not be paid separately to the Contractor, and all such costs shall be deemed to have been included by the Contractor in the rates and amounts of other items in the Bill of Quantities. If the facilities are not provided within the time specified, the Contractor shall bear all expenses, including rents, incurred by the Employer or the Engineer as a consequence of the Contractor's failure to complete and hand over the facilities and any of their fittings, furniture, equipment and associated hiring of staff or drivers.

28.7 **Delay in Provision of Facilities**

Without prejudice to Sub-Clause 28.6, if the Contractor fails to provide any facility or service under this Clause within the time specified, the Employer may, after giving the Contractor seven (7) days' notice and without prejudice to any other right or remedy, arrange for such facility or service at the Contractor's risk and expense, and the costs incurred by the Employer, together with ten percent (10%) handling and overhead charges, shall be deducted from the Contractor's payments without the Contractor having any claim in this regard. Such arrangements shall not absolve the Contractor of its obligations under the Contract.

29. Contractor's Office & Site Facilities etc.

29.1 **General**

The Contractor is obliged to make his own arrangement at his own expense for the following.

29.2 **Labour Camps and Staff Residences**

The Contractor shall provide, operate and maintain labour camps and staff residences and are required for the proper and efficient progress of the work to house his own employees. For the purposes of operation and maintenance of the Camps and Residences, the Contractor shall comply with the rules of Pakistan Labour Camp Rules 1960 and all other applicable provisions of the Pakistan Labour Laws.

29.3 **Administrative and Field Office**

The Contractor shall provide, operate and maintain administrative and field offices required for his staff and would be responsible for Operation and Maintenance, furniture, equipment, appliances, janitorial services and security of the same.

29.4 **Work Yards and Storage Areas**

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The Contractor shall provide, operate and maintain all sheds, fencing, foundations and all above ground structures required to store material or equipment brought on to the site by him. The Contractor shall be responsible for the security of his entire camps, residence, site and field offices work yard and storage area.

29.5 **Water Supply, Sewerage System and Electricity**

The Contractor shall make his own arrangement, at his own expense for provision, operation and maintenance of electric supply, reasonable supplies of raw and potable water and sewerage system at the site of works and his labour camps, staff residences and offices. The Contractor shall pay all fees, and charges (including bills) of whatsoever nature to the concerned departments (if any) in order to procure connections of the above facilities and thereafter using these facilities.

29.6 **Medical Care**

The Contractor shall arrange provision of adequate medical facilities for his employees at his own cost in accordance with requirements of the Health Services of the Government of Pakistan.

29.7 **Fire Protection**

The Contractor shall provide and maintain adequate fire protection in the form of barrels of water with buckets, fire bucket tanks, fire extinguisher, or other effective means ready for instant use, distributed around the project and in and about temporary inflammable structures during construction of the works.

29.8 **Waste Disposal**

The Contractor shall make such temporary provisions as may be required in order to dispose of any chemicals, fuels, oils, grease, bituminous materials, waste and soil waste and the like without causing pollution to either the site or the environment. Disposal of any materials, wastes, effluent, garbage, oil, grease, chemicals and the like shall be in areas specified by the concerned local authority proposed by the Contractor and subject to the approval of the Engineer. If any waste material is dumped in unauthorized areas the Contractor shall remove the material and restore the area to the condition of the adjacent undisturbed area. If necessary, contaminated ground shall be excavated, disposed of as directed by the Engineer and replaced with suitable fill material compacted and finished with topsoil all at the expense of the Contractor.

29.9 **Other Facilities**

The Contractor shall also be responsible for providing at his own cost other facilities for his own staff and labour such as recreational, transport, telephone and catering if required.

30. Cleaning & Upkeep of Site

The Contractor shall regularly clean and clear away all rubbish and excess material that may accumulate from time to time on completion and before handing over. Upon

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completion of the works, he shall obliterate all signs of temporary construction facilities such as work areas, structures, foundations of temporary structures, stock piles of excess or waste materials, or any other vestiges of construction, as directed by the Engineer. All working areas shall be cleaned: floors and paving scrubbed and the works and site shall be left in a clean and satisfactory state for immediate use and occupation. Care shall be taken not to use any cleaning materials, which may cause damage to the surface to be cleaned.

31. Environmental Protection

The Contractor shall exercise due care to protect the natural landscape and shall conduct his constructions operations so as to prevent any unnecessary destruction, scarring or defacing of the natural surroundings in the vicinity of works. Except where clearing is required for the Permanent works, approved construction roads and the Temporary Works, and for excavation, operations, all trees and native vegetation shall be preserved and shall be protected from damage which may be caused by the Contractor's construction operations and equipment. Where unnecessary destruction, scarring, damage or defacing may occur as a result of the contractor's operations, it shall be repaired, replanted, or otherwise corrected as directed by the Engineer with no additional cost to the Employer.

The Contractor shall abide by all the guidelines set out by the Environmental Protection Agency of Pakistan.

32. Non-Compliance with Special Conditions & Penalties

32.1 Contractor's Failure to Provide Facilities, Services, or Tests

If the Contractor fails to provide any facilities, services, or tests required for quality control, supervision, or contract administration, as specified in the relevant Clauses of the Specific Provisions, within the period notified by the Employer or the Engineer, the Employer may arrange for such facilities, services, or tests at the Contractor's risk and expense. The costs incurred by the Employer shall be deducted from the Contractor's payments, together with ten percent (10%) handling and overhead charges, without the Contractor having any claim in this regard. Such arrangements shall not absolve the Contractor of its obligations under the Contract.

32.2 Safety and Site Protection Requirements

Failure to comply with safety and site protection requirements, including the proper cordoning off of the worksite, the provision of safety equipment, or the implementation of protective measures, may result in penalties, suspension of work, or such other remedial actions as the Employer deems necessary. The Employer reserves the right to conduct inspections at any stage of the project to verify compliance with Health, Safety, and Environmental Standards.

32.3 Binding Effect

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This Clause shall be binding on the Contractor and all subcontractors engaged in the execution of the Works, without prejudice to any other rights or remedies available to the Employer under the Contract.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

SCHEDULE A - SCHEDULE OF PRICES

PREAMBLE TO SCHEDULE OF PRICES

1. General

1.1 The Schedule of Prices shall be read in conjunction with the General Conditions of Contract, Contract Data together with the Specifications and Drawings, if any.

1.2 The Contract shall be for the whole of the Works as described in these Bidding Documents. Bids must be for the complete scope of works.

2. Description

2.1 The general directions and descriptions of works and materials are not necessarily repeated nor summarized in the Schedule of Prices. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the Schedule of Prices.

3. Units & Abbreviations

3.1 Units of measurement, symbols and abbreviations expressed in the Bidding Documents shall comply with the FPS and SI Units systems.

4. Rates and Prices

4.1 Except as otherwise expressly provided under the General Conditions of Contract, the rates and amounts entered in the Schedule of Prices shall be the rates at which the Contractor shall be paid and shall be the full inclusive value of the works set forth or implied in the Contract; except for the amounts reimbursable, if any to the Contractor under the Contract.

4.2 Unless otherwise stipulated in the Contract Data, the rates and prices entered by the bidder shall not be subject to adjustment during the performance of the Contract.

4.3 All duties, taxes (except provincial sales tax on services) and other levies payable by the Contractor shall be included in the rates and prices.

4.4 The whole cost of complying with the provisions of the Contract shall be included in the items provided in the Schedule of Prices, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works and no separate payment will be made for those items.

The rates, prices and amounts shall be entered against each item in the Schedule of Prices. Any item against which no rate or price is entered by the bidder will not be paid for by the Employer when executed and shall be deemed covered by the rates and prices for other items in the Schedule of Prices.

4.5 (a) The Contractor shall be deemed to have obtained all information as to and all requirements related thereto which may affect the bid price.

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(b) The Contractor shall be responsible to make complete arrangements for the transportation of the Plant to the Site.

4.6 The Contractor shall provide for all parts of the Works to be completed in every respect. Notwithstanding that any details, accessories, etc. required for the complete installation and satisfactory operation of the Works, are not specifically mentioned in the Specifications, such details shall be considered as included in the Contract Price.

5. Bid Prices

5.1 Break-up of Bid Prices

The various elements of Bid Prices shall be quoted as detailed by the Employer in the format of Schedule of Prices.

The Contractor shall recognize such elements of the costs which he expects to incur the performance of the Works and shall include all such costs in the rates and amounts entered in the Schedule of Prices.

5.2 Total Bid Price

The total of bid prices in the Schedule of Prices shall be entered in the Summary of Bid Prices.

6. Provisional Sums

6.1 Provisional Sums included and so designated in the Schedule of Prices if any, shall be expended in whole or in part at the direction and discretion of the Engineer / Employer. The Contractor will only receive payment in respect of Provisional Sums if he has been instructed by the Engineer/Employer to utilise such sums.

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SUMMARY OF BID PRICES

Bill No.	Description	Total Amount (Rs)
1.		
	Total Bid Price (The amount to be entered in Paragraph 1 of the Form of Bid) (In words).	

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SCHEDULE OF PRICES

Item No.	Description	Quantity	Unit Rate(Rs)	Total Amount (Rs)
1.				
Total (to be carried to Summary of Bid Price)				

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SCHEDULE B - PROPOSED PROGRAMME OF WORKS

Bidder shall provide a programme in a bar-chart showing the sequence of work items by which he proposes to complete the Works of the entire Contract. The programme should indicate the sequence of work items and the period of time during which he proposes to complete the Works including the activities like designing, schedule of submittal of drawings, ordering and procurement of materials, manufacturing, delivering, construction of civil works, erection, testing and commissioning of Works to be supplied under the Contract.

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SCHEDULE C - INTEGRITY PACT

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

Contract No. Dated:

Contract Value (In Words & Figures):

Contract Title: [CONTRACT DOCUMENT]

…… [name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoP through any corrupt business practice.

Without limiting the generality of the foregoing, …… [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form GoP, except that which has been expressly declared pursuant hereto.

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

…… [name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, …… [name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by …… [name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

On behalf of Pakistan Airports Authority	Name of Seller/Supplier:
Signature:	Signature:
[Seal]	[Seal]

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SCHEDULE D - STANDARD FORMS

BID SECURING DECLARATION

Date:
No.: _____
Ref. No.: _____

To:

Director Engineering Services,
Pakistan Airports Authority,
HQPAA, Terminal-1, Jinnah International Airport, Karachi

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 the bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

a) have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;
b) have a disagreement to arithmetical correction made to the Bid price; or
c) 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.

Name of the Bidder*
Name of the person duly authorized to sign the Bid on behalf of the Bidder** _____
Title of the person signing the Bid _____
Signature of the person named above _____
Date signed _____ day of _____, _____

**: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder*
***: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid*
[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]

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PERFORMANCE SECURITY (BANK GUARANTEE)

Guarantee No. _____ Executed on (Date) _____

Name of Guarantor (Scheduled Bank in Pakistan) with address: _____
Name of Principal (Contractor) with address: _____
Penal Sum of Security (express in words and figures) _____
Letter of Acceptance No. _____ Dated _____

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

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

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of the said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 11, Defects after Taking Over, of General Conditions of Contract are fulfilled.

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

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

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

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

Witness 1:

Signatures
[Corporate Secretary (Seal)]
Name, Title and CNIC

Witness 2:

Signatures
Name, Title and CNIC

Guarantor (Bank)

Signatures
[Authorized Officer]
Name and Title

Corporate Guarantor (Seal)

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ADVANCE PAYMENT (BANK GUARANTEE)

Guarantee No. _____ Date _____

WHEREAS the **PAKISTAN AIRPORTS AUTHORITY** (hereinafter called the Employer) has entered into a Contract for _____ _____ (Particulars of Contract), with Constructor "M/s _____" (hereinafter called the Contractor).

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

AND WHEREAS the Employer has asked the Contractor to furnish Guarantee to secure the advance payment for the performance of his obligations under the said Contract.

AND WHEREAS _____ (Scheduled Bank) (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 the Employer for payment not exceeding the aforementioned amount.

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

This Guarantee shall come into force as soon as the advance payment has been credited to the account of the Contractor.

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

It is understood that you will return this Guarantee to us on expiry or after settlement of the total amount to be claimed hereunder.

Witness 1:

Signatures
[Corporate Secretary (Seal)]
Name, Title and CNIC

Witness 2:

Signatures
Name, Title and CNIC

Guarantor (Bank)

Signatures
[Authorized Officer]
Name and Title

Corporate Guarantor (Seal)

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SCHEDULE E - PRICE ADJUSTMENT

Schedule of Cost Indexation

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

$$Pn = A + b\,Ln / Lo + c\,En/ Eo + d\,Mn/Mo + ...$$

where:

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

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

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

"Ln", "En", "Mn", are the current cost indices or reference prices for period "n", expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates); and

"Lo", "Eo", "Mo", are the base cost indices or reference prices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the Base Date.

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

If the currency in which the Contract price is expressed is different from the currency of the country of origin of the indices, a correction factor will be applied to avoid incorrect adjustments of the Contract price. The correction factor shall be: ***Z0 / Z1***, where,

Z0 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price on the Base date, and

Z1 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price on the Date of Adjustment.

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FORMULA FACTORS

Price Adjustment Formulae and their Applicability

1. $Pn(1) = A + b(Ln/Lo) + c(Sn/So) + d(Cn/Co) + e(Bn/Bo) + f(Agn/Ago) + g(Dn/Do)$
   Applicable on Sub-Heads 1 & 2 (Airside Pavements and Access Road)

2. $Pn(2) = A + b(Ln/Lo) + c(Sn/So) + d(Cn/Co) + g(Dn/Do)$
   Applicable on Sub-Heads 3, 4, 5 & 6 (Buildings, Ancillary, Public Health, Security)

3. $Pn(3) = A + b(Ln/Lo) + c(Sn/So) + d(Cn/Co) + g(Dn/Do) + h(Cun/Cuo)$
   Applicable on Sub-Heads 7, 8 & 9 (Electrical, Life Safety, Mechanical)

Table I. Summary of Price Adjustment Coefficients

Formula / Coefficient	$P_{n(1)}$	$P_{n(2)}$	$P_{n(3)}$
A (Fixed)	0.30	0.30	0.30
b (Labour)	0.16	0.19	0.20
c (Steel)	0.05	0.27	0.07
d (Cement)	0.11	0.12	0.02
e (Bitumen)	0.05	—	—
f (Aggregate)	0.20	—	—
g (HSD)	0.13	0.12	0.15
h (Copper)	—	—	0.26
Total Adjustable	0.70	0.70	0.70

Table II. Source of Base and Current Prices

Coeff.	Element	Source	Representative Item
b	Labour	PBS Statistical Bulletin	Unskilled labour daily wage
c	Steel	PBS Statistical Bulletin	Grade-40, ½" dia deformed bar
d	Cement	PBS Statistical Bulletin	OPC, 50 kg bag
e	Bitumen	PARCO / Attock notification	60/70 penetration grade
f	Aggregate	PBS Statistical Bulletin	Crushed stone aggregate
g	HSD	OGRA / PSO	High-speed diesel, per litre
h	Copper	LME	Copper (Cu)

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SCHEDULE F - SPECIFICATIONS

All Works to be furnished and tested under the Contract shall comply with the specific standards and codes referenced in the Specifications and, unless otherwise expressly stipulated in the Contract, the latest current edition or revision of any such referenced standard or code shall apply; the Contractor may propose the use of other authoritative standards that ensure a level of equivalence to those specified, subject to the Engineer's prior written approval and provided that the Contractor demonstrates such equivalence to the Engineer's satisfaction. For the purpose of interpreting the Specifications, (a) for Bill of Quantities (BoQ) items relating to Civil Works, the MES Specifications of Works shall govern; (b) for BoQ items relating to Electrical and Mechanical Works, the Pak PWD specifications shall govern; and (c) for any items for which specifications are not available in the relevant specification books identified in (a) and (b) above, the determination of the Engineer shall apply, which determination shall be final and binding.

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**
LOCATION	**DALBANDIN, BALOCHISTAN**

ABSTRACT OF COSTS

	DESCRIPTION	AMOUNT
SUB-HEAD 1	**REHABILITATION OF AIRSIDE PAVEMENTS**	
SUB-HEAD 2	**ACCESS ROAD**	
SUB-HEAD 3	**ANCILLARY CIVIL INFRASTRUCTURE**	
SUB-HEAD 4	**RENOVATION OF PTB**	
SUB-HEAD 5	**PUBLIC-HEALTH ENGINEERING**	
SUB-HEAD 6	**SECURITY INFRASTRUCTURE**	
SUB-HEAD 7	**EXTERNAL ELECTRICAL INFRASTRUCTURE**	
SUB-HEAD 8	**BUILDING ELECTRIFICATION & LIFE SAFETY**	
SUB-HEAD 9	**MECHANICAL WORKS**	
	TOTAL	

TOTAL (IN WORDS):

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PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**		
LOCATION	**DALBANDIN**	PROVINCE	**BALOCHISTAN**
SUB-HEAD	**REHABILITATION OF AIRSIDE PAVEMENTS**		

	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (FIG)	RATE (WORDS)	AMOUNT
1	DEMOLITION OF PREMIX CARPET / BITUMINOUS PAVEMENTS, LOAD MATERIAL FOR DISPOSE OFF AND LEAD UPTO 5 KM OUTSIDE AIRPORT PREMISES	120,999	CUM			
2	CUTTING OF ORDINARY / HARD SOIL OF ROADWAY / RUNWAY / HARD STANDING STRIPPING ETC AND DISPOSE OFF / COLLECT SPOIL WITHIN 5 KM COMPLETE	101	CUM			
3	COMPACTION OF NATURAL GROUND UP TO 95% MODIFIED AASHTO DENSITY ALL AS SPECIFIED	100,750	SQM			
4	EXCAVATION AS IN ORDINARY / HARD SOIL UPTO 1.50 MTR DEPTH IN FOUNDATIONS OR TRENCHES, THROW EARTH CLEAR OF EDGES OF EXCAVATION INCL LOADING AND UNLOADING AND UP TO 10 KM LEAD	6,971	CUM			
5	PROVIDING AND LAYING IMPROVED SUBGRADE USING 80% EXISTING EXCAVATED MATERIAL TO ACHIEVE 95% MODIFIED AASHTO DENSITY COMPLETE	27,670	CUM			
6	PROVIDING AND LAYING IMPROVED SUBGRADE USING 20% GRANULAR MATERIAL TO ACHIEVE 95% MODIFIED AASHTO DENSITY COMPLETE	6,917	CUM			
7	BOTTOMING / SUB BASE OF ANY THICKNESS AS SPECIFIED USING GRANULAR MATERIAL OF CBR 30% LAID AND COMPACTED TO 100% MODIFIED AASHTO DENSITY BY APPROPRIATE COMPACTION COMPLETE	34,588	CUM			
8	PROVISION AND INSTALLING OF HDPE GEOGRID BIAXIAL IN PAVEMENT STRUCTURAL LAYERS AS PER OEM RECOMMENDATIONS AND DIRECTIONS OF ENGINEER IN CHARGE.	70,000	SQM			
9	PROVISION AND INSTALLING OF HDPE GEOCELLS (CELL DEPTH 150MM, CELL SIZE 440 MM, SHEET THICK 1.5 MM) IN PAVEMENT STRUCTURAL LAYERS AS PER OEM RECOMMENDATIONS AND DIRECTIONS OF ENGINEER IN CHARGE.	70,000	SQM			
10	AGGREGATE BASE COURSE OF ANY THICKNESS AS SPECIFIED LAID AND COMPACTED TO 100% MODIFIED AASHTO DENSITY BY APPROPRIATE COMPACTION EQUIPMENT AND ROLLER	43,189	CUM			
11	PRIME COAT ON BASE COURSE SURFACE COMPLETE	113,400	SQM			
12	PROVIDING AND LAYING (BATCHING-PLANT-MIXED) ASPHALT BASE COURSE OF ANY THICKNESS IN LAYERS AS SPECIFIED WITH ASPHALT CONCRETE IN 60/70 OR 80/100 GRADES USING APPROVED JMF COMPLETE (EXCEPT PRIME COAT)	27,784	TON			
13	TACK COAT ON ASPHALTIC SURFACE COMPLETE	113,400	SQM			

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SUB-HEAD	**REHABILITATION OF AIRSIDE PAVEMENTS**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
14	PROVIDING AND LAYING (BATCHING-PLANT-MIXED) ASPHALT WEARING COURSE OF ANY THICKNESS IN LAYERS AS SPECIFIED WITH AASPHALT CONCRETE IN 60/70 OR 80/100 GRADES USING APPROVED JMF COMPLETE (EXCEPT TACK COAT)	13,892	TON			
15	BLEND ADDITIVE(S) SBS/SBR/PEVA IN BITUMEN BINDER TO MAKE IT PMB PG 76-22 COMPATIBLE FOR USE IN ASPHALT CONCRETE AS SPECIFIED.	137	TON			
16	LABOUR AND NECESSARY MATERIAL FOR FORMING OF EXPANSION JOINT 13 MM WIDE AND LEAVING THE JOINT CLEAR FOR FILLING (LENGTH OF JOINT MULTIPLIED BY THICKNESS OF JOINT)	15	SQM			
17	PROVIDING AND FILLING OF RIGID PAVEMENT JOINTS 3/4 INCH X 5/8 INCH (AVERAGE) WITH JET FUEL RESISTANT SEALANT (CRAFCO USA OR EQUIVALENT IMPORTED) CONFORMING TO ASTM D6690 INCL REMOVAL/CLEANING OF EXISTING SEALANT, CLEANING INTERFACES BY SAWING OR MECHANICAL ABRASION, BLOWING DRY WITH COMPRESSOR, DISPOSAL OF RUBBISH AND P/L BACKER ROD/RUBBER STRIP	2,561	METRE			
18	FILLING OF JOINT WITH AEROLASTIC MATERIAL INCL FOAM ROPE (BACKER ROD), CUTTING WITH SAW	110	METRE			
19	P/L OF LEAN CONCRETE USING CRUSHED OR BROKEN STONE GRADED 1:4:8 ALL AS SPD	431	CUM			
20	PROVIDING AND LAYING PCC 1:2:4 CONCRETE USING CRUSHED OR BROKEN STONE GRADED ALL AS SPD	1,394	CUM			
21	PROVIDING AND LAYING PCC 1:2:4 AS IN FLOOR SLABS SURFACE FINISHED SMOOTH WITH NEAT CEMENT AND STEEL TROWEL USING CRUSHED OR BROKEN STONE FOR BASEMENT / GROUND FLOOR	183	CUM			
22	PROVIDING AND LAYING PQC FLEXURAL STRENGTH OF 600 PSI FOR RUNWAY TAXIWAY LINKS LEAD-INS AND TARMAC OF ANY THICKNESS USING CONCRETE MIX DESIGN LAID MANUALLY ALL AS SPECIFIED	67	CUM			
23	PROVIDING AND LAYING RCC 4000 PSI CONCRETE USING CRUSHED OR BROKEN STONE AS IN WALLS ROOF SLAB LANDING PLINTH BEAMS AND BAND ETC INCL FORM WORK REINFORCEMENT MEASURED AND PAID SEPARATELY	1,165	CUM			
24	SUPPLY AND FIX STEEL REINFORCEMENT USING DEFORMED BAR GRADE-60 INCL CUTTING BINDING AND PLACING	8,722	KG			
25	SUPPLY AND FIX BARS ROUND SQUARE OR FLAT INCLUDING CUTTING BENDING BINDING AND PLACING REINFORCEMENT IN POSITION	633	KG			
26	PROVIDING AND LAYING RCC PIPE 230MM BORE LAID AND JOINTED WITH SPIGOT SOCKET OR COLLAR COMPLETE	2,525	METRE			

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SUB-HEAD	**REHABILITATION OF AIRSIDE PAVEMENTS**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
27	PROVIDING AND LAYING POLYETHYLENE PIPE (PE-100) 160MM DIA CLASS PN-10 / SDR-17 COMPLETE	1,001	METRE			
28	PROVIDING AND LAYING UPVC 150MM BORE COMPLETE	480	METRE			
29	PROVIDING SAND CUSHION IN LAYER AS SPD UNDER CONCRETE ROAD, HARD STANDING AND RUNWAY ETC COMPLETE	2,958	CUM			
30	PROVIDING AND LAYING BOND BREAKING MATERIALS USING 0.102 MM THICK POLYTHENE FILM OVER NORMAL THICKNESS OF CONCRETE FLOOR	335	SQM			
31	BURNT BRICK WORK IN WALL OVER 115MM THICK WALL LAID AND JOINTED IN CM 1:3 STRAIGHT OR CURVE WITH INNER RADIUS LESS THAN 6 MTR UPTO 4.25 MTR DEPTH COMPLETE	777	CUM			
32	PLASTER 1:4 13MM THICK FINISHED AS SPD (BASEMENT, GF, 1ST AND 2ND FLOOR)	3,397	SQM			
33	PROVIDING AND APPLYING ONE COAT OF UNDILUTED WATER BASED ROAD / AIRFIELD MARKINGS PAINT (BERGER, STAR BRITE OR EQUIVALENT) WITH GLASS BEADS CONFORMING TO FEDERAL SPEC TT-B-1325C TYPE 1 GRADE A APPLIED AT 1 KG PER LITRE OF PAINT (FAA P-602) USING AIRLESS PNEUMATIC SPRAY MACHINE CAPABLE OF PAINTING UP TO 3 FEET WIDE STRIP WITH SYNCHRONIZED GLASS BEAD DISPENSING ATTACHMENT	10,011	SQM			
					TOTAL	

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PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**		
LOCATION	**DALBANDIN**	PROVINCE	**BALOCHISTAN**
SUB-HEAD	**ACCESS ROAD**		

	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (FIG)	RATE (WORDS)	AMOUNT
1	CLEARING AND GRUBBING THE SITE INCLUDING REMOVAL OF GRASS, SHRUBS, BRUSHWOOD, UNDERGROWTH, ROOTS AND SMALL TREES NOT EXCEEDING 225 MM GIRTH, AND DISPOSING OF CLEARED MATERIAL OFF-SITE, COMPLETE AS SPECIFIED.	7,352	SQM			
2	COMPACTION OF NATURAL GROUND UP TO 95% MODIFIED AASHTO DENSITY, INCLUDING SCARIFYING, WATERING AND ROLLING, COMPLETE AS SPECIFIED.	7,352	SQM			
3	EXCAVATION IN ORDINARY SOIL UP TO 1.5 M DEPTH, IN FOUNDATIONS AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA.	2,290	CUM			
4	MAKING EMBANKMENT WITH SPECIFIED/APPROVED SOIL OBTAINED FROM BORROW EXCAVATION, INCLUDING LOADING WITHIN 5 KM, COMPACTION IN 150 MM LAYERS UP TO 95% MODIFIED AASHTO DENSITY, AND DRESSING TO REQUIRED PROFILE AND SHAPE.	11,028	CUM			
5	GRANULAR FILLING UNDER FOOTING/FOUNDATION USING SPECIFIED/APPROVED GRANULAR MATERIAL, INCLUDING LOADING AND TRANSPORTATION WITHIN 5 KM, COMPACTION IN 150 MM LAYERS UP TO 95% MODIFIED AASHTO DENSITY, AND DRESSING TO REQUIRED PROFILE AND SHAPE.	1,103	CUM			
6	PROVIDING AND LAYING AGGREGATE BASE COURSE OF ANY THICKNESS, LAID AND COMPACTED TO 100% MODIFIED AASHTO DENSITY USING APPROPRIATE COMPACTION EQUIPMENT AND ROLLER, COMPLETE AS SPECIFIED.	1,103	CUM			
7	PROVIDING AND APPLYING PRIME COAT ON PREPARED AGGREGATE BASE COURSE SURFACE USING APPROVED BITUMINOUS MATERIAL AT THE SPECIFIED RATE, COMPLETE AS SPECIFIED.	7,352	SQM			

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SUB-HEAD	**ACCESS ROAD**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
8	PROVIDING AND LAYING PLANT-MIXED ASPHALTIC WEARING COURSE OF ANY THICKNESS USING ASPHALT CEMENT GRADE 60/70 OR 80/100 AND APPROVED JOB MIX FORMULA (JMF), INCLUDING HAULING, PLACING AND COMPACTION, EXCLUDING TACK COAT.	368	TON			
9	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:4:8) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, FOR DRAIN WORKS, COMPLETE.	76	CUM			
10	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN DIFFERENT STRUCTURAL ELEMENTS (FOUNDATION ETC.) INCLUDING FORMWORK, FOR DRAIN WORKS; REINFORCEMENT MEASURED AND PAID SEPARATELY.	762	CUM			
11	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:4:8) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, FOR CULVERT WORKS, COMPLETE.	5	CUM			
12	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN DIFFERENT STRUCTURAL ELEMENTS (FOUNDATION ETC.) INCLUDING FORMWORK, FOR CULVERT WORKS; REINFORCEMENT MEASURED AND PAID SEPARATELY.	14	CUM			
13	SUPPLY AND FIXING RCC PIPES 600 MM BORE, LAID AND JOINTED WITH SPIGOT-SOCKET OR TONGUE-AND-GROOVE JOINT INCLUDING RUBBER RING, COMPLETE AS SPECIFIED.	4	MTR			
14	APPLYING THREE COATS OF APPROVED ROAD MARKING PAINT ON NEW OR OLD SURFACE USING MECHANICAL MEANS, COMPLETE AS SPECIFIED.	666	SQM			
15	PROVIDING AND LAYING ROAD MARKING WITH REFLECTIVE THERMOPLASTIC (TP) PAINT FOR LINES OF 12.50 CM WIDTH (YELLOW). RATE BUILT FROM SOR COMPONENTS: 15-75 (PRIMER/PREP), 15-76 (TP APPLICATION), 15-77 (GLASS BEADS).	822	SQM			
16	PROVIDING AND LAYING ROAD MARKING WITH REFLECTIVE THERMOPLASTIC (TP) PAINT FOR LINES OF 12.50 CM WIDTH (WHITE). RATE BUILT FROM SOR COMPONENTS: 15-75 (PRIMER/PREP), 15-76 (TP APPLICATION), 15-77 (GLASS BEADS).	11,605	SQM			
17	PROVIDING AND LAYING ROAD MARKING WITH REFLECTIVE THERMOPLASTIC (TP) PAINT FOR 4-METRE ARROWS. RATE BUILT FROM SOR COMPONENTS: 15-75 (PRIMER/PREP), 15-76 (TP APPLICATION), 15-77 (GLASS BEADS).	881	SQM			

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SUB-HEAD	**ACCESS ROAD**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
18	PROVIDING AND FIXING ROAD SIGN BOARDS (E.G., CAUTION SIGNS) WITH REFLECTIVE PAINT, HAVING SUPERFICIAL AREA OF 1.125 SQM, INCLUDING COST OF POST, FOUNDATION, FIXING AND ALL ACCESSORIES, AS APPROVED BY THE ENGINEER, COMPLETE AS SPECIFIED.	20	NOS			
					TOTAL	

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PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**		
LOCATION	**DALBANDIN**	PROVINCE	**BALOCHISTAN**
SUB-HEAD	**ANCILLARY CIVIL INFRASTRUCTURE**		

	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (FIG)	RATE (WORDS)	AMOUNT
1	EXCAVATION IN ORDINARY SOIL UP TO 1.5 M DEPTH, IN FOUNDATION AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA, COMPLETE AS SPECIFIED.	1,774	CUM			
2	EXCAVATION IN HARD SOIL UP TO 1.5 M DEPTH, IN FOUNDATION AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M, INCLUDING BACKFILLING, COMPLETE AS SPECIFIED.	612	CUM			
3	EXCAVATION OVER AREAS IN ORDINARY/HARD SOIL FROM 1.5 M TO 3 M DEPTH, IN FOUNDATION/EXCAVATIONS, THROWING EARTH CLEAR WITHIN 50 M, COMPLETE AS SPECIFIED.	157	CUM			
4	EXCAVATION OVER AREAS IN ORDINARY/HARD SOIL UP TO 1.5 M DEPTH, IN FOUNDATION/EXCAVATIONS, THROWING EARTH CLEAR WITHIN 50 M, COMPLETE AS SPECIFIED.	1,787	CUM			
5	BOTTOMING/SUB-BASE OF ANY THICKNESS USING GRANULAR SUB-BASE MATERIAL/SOIL AGGREGATES CBR 30%, LAID AND COMPACTED TO 100% MODIFIED AASHTO DENSITY, COMPLETE AS SPECIFIED.	910	CUM			
6	EARTH FILLING IN ORDINARY OR HARD SOIL, IN FOUNDATION, PIPE TRENCHES, SHAFTS, WELLS, INDEPENDENT HOLES, UNDER FLOORS OR AROUND PLINTH ETC., 1.5 M BELOW OR ABOVE GROUND LEVEL, WITH SPOIL OBTAINED FROM EXCAVATION, INCLUDING WATERING AND COMPACTION IN 150 MM LAYERS, COMPLETE AS SPECIFIED.	894	CUM			
7	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:4:8) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, UNDER FOOTINGS/FOUNDATIONS, COMPLETE.	310	CUM			
8	PROVIDING AND LAYING SAND CUSHION UNDER FLOOR (100 MM THICK), COMPLETE AS SPECIFIED.	1,655	CUM			

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SUB-HEAD	**ANCILLARY CIVIL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
9	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN DIFFERENT STRUCTURAL ELEMENTS (FOUNDATION ETC.) INCLUDING FORMWORK; REINFORCEMENT MEASURED AND PAID SEPARATELY, COMPLETE AS SPECIFIED.	483	CUM			
10	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN FOUNDATIONS ETC., INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	188	CUM			
11	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN COLUMNS, BEAMS, STAIRS, POSTS, STRUTS, PIERS, LINTELS AND THE LIKE, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	306	CUM			
12	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN COLUMNS, BEAMS, STAIRS, POSTS, STRUTS, PIERS, LINTELS, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	105	CUM			
13	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS ETC., INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	618	CUM			
14	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY, COMPLETE AS SPECIFIED.	430	CUM			
15	PROVIDING AND LAYING PCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ALL NON-STRUCTURAL ELEMENTS, INCLUDING FORMWORK AND FAIR FACES TO EXPOSED SURFACES, COMPLETE AS SPECIFIED.	12	CUM			
16	PROVIDING AND LAYING PCC 1:2:4 IN FLOOR SLABS AS UNDERLAYER FOR TERRAZZO/TILES TOP FINISH, USING CRUSHED OR BROKEN STONE, COMPLETE AS SPECIFIED.	194	CUM			
17	PROVIDING AND LAYING PCC 1:3:6 IN FLOOR SLABS AS UNDERLAYER FOR TERRAZZO/TILES TOP FINISH, COMPLETE AS SPECIFIED.	95	CUM			
18	PROVIDING AND LAYING PCC 1:6:12 UNDER FLOORS USING CRUSHED OR BROKEN STONES, COMPLETE AS SPECIFIED.	319	CUM			
19	PROVIDING AND LAYING PCC 1:4:8 UNDER FLOOR USING CRUSHED OR BROKEN STONES, COMPLETE AS SPECIFIED.	77	CUM			

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SUB-HEAD	**ANCILLARY CIVIL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
20	PROVIDING AND LAYING 50 MM THICK PCC 1:2:4 USING 3 MM AGGREGATE, FINISHED SMOOTH WITH STEEL FLOAT, COVERED WITH TWO COATS OF HOT BITUMEN AT 0.75 KG PER SQM EACH, AND BLINDED WITH 0.012 CUM OF SAND PER SQM.	47	SQM			
21	ADDITIONAL LABOUR FOR HOISTING/LOWERING CONCRETE FOR EACH STOREY BEYOND 12 M ABOVE/BELOW GL.	222	CUM			
22	PROVIDING, CUTTING, BENDING, PLACING AND BINDING HIGH TENSILE (GRADE-60) DEFORMED STEEL BAR REINFORCEMENT, COMPLETE.	290,478	KG			
23	BURNT BRICK WORK IN WALL OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO 4.25 M DEPTH, COMPLETE AS SPECIFIED.	118	CUM			
24	BURNT BRICK WORK IN WALLS 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:4, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	78	CUM			
25	BURNT BRICK WORK IN WALL OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	151	CUM			
26	BURNT BRICK WORK IN WALL OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO FIRST FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	4	CUM			
27	BURNT BRICK WORK IN WALL 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:4, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO FIRST FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	312	CUM			
28	EXTRA TO BRICK FOR FORMING CAVITY, 57 MM WIDE, LAID AND JOINTED IN CEMENT MORTAR 1:3, ONE FACE MEASURED (CAVITY WALL), COMPLETE AS SPECIFIED.	224	SQM			
29	SUPPLY AND FIXING STEEL CHOWKAT, PRESS-MOULDED 18 SWG, FOR 115 MM WALLS, SINGLE LEAF, INCLUDING HOLDFAST, TIES FOR LATERAL MOVEMENT, PCC 1:2:4 CAVITY FILLING, ONE COAT ANTI-CREOSOTE PAINT (INTERNAL) AND RED OXIDE PAINT (EXTERNAL), COMPLETE AS SPECIFIED.	1,591	MTR			
30	SUPPLY AND FIXING STEEL CHOWKAT, PRESS-MOULDED 18 SWG, FOR 230 MM WALLS, SINGLE/DOUBLE LEAF, INCLUDING HOLDFAST, TIES FOR LATERAL MOVEMENT, PCC 1:2:4 CAVITY FILLING, ONE COAT ANTI-CREOSOTE PAINT (INTERNAL) AND RED OXIDE PAINT (EXTERNAL), COMPLETE AS SPECIFIED.	1,075	MTR			

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SUB-HEAD	**ANCILLARY CIVIL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
31	SUPPLY AND FIXING WATERPROOF BUILDING/INSULATING PAPER WEIGHING 3.92 KG PER 10 SQM, FIXED ANY POSITION WITH 50 MM SIDE AND 150 MM END LAPS, COMPLETE AS SPECIFIED.	1,238	SQM			
32	PROVIDING AND LAYING BOND-BREAKING SLIP MEMBRANE USING 0.102 MM THICK POLYETHYLENE FILM OVER NORMAL THICKNESS OF CONCRETE FLOOR, COMPLETE AS SPECIFIED.	18	SQM			
33	PROVIDING AND APPLYING TWO COATS OF HOT BITUMEN AT 0.75 KG PER SQM PER COAT, BLINDED WITH SAND AT 0.012 CUM PER SQM, COMPLETE AS SPECIFIED.	130	SQM			
34	SUPPLY AND FIXING SYNTHETIC VINYL (PVC) FLEXIBLE MEMBRANE 0.50 MM THICK WITH 75-100 MM SIDE/END LAPS, SEAMED/WELDED THERMALLY/CHEMICALLY (SUNK PORTION), COMPLETE AS SPECIFIED.	137	SQM			
35	SUPPLY AND FIXING DOUBLE LAYER OF WATERPROOFING BUILDING/INSULATING PAPER 3.92 KG PER 10 SQM FIXED ANY POSITION WITH 50 MM SIDE AND 150 MM END LAPS AND NAILING, COMPLETE AS SPECIFIED.	7	SQM			
36	SUPPLY AND FIXING DOUBLE LAYER OF WATERPROOFING BUILDING/INSULATING PAPER WITHOUT NAILING, INCLUDING 13 MM THICK CEMENT PLASTER CM 1:4, COMPLETE AS SPECIFIED.	36	SQM			
37	SUPPLY AND APPLYING ROOF INSULATION/WATERPROOFING USING DOUBLE LAYER OF BITUMEN FELT MEMBRANE (16-18 KG PER 10 SQM) WITH 50 MM SIDE AND 150 MM END LAPS, INCLUDING PRIMER AND STICKING COAT, COMPLETE AS SPECIFIED.	1,408	SQM			
38	SUPPLY AND FIXING POLY EXTRUDED BOARD 50 MM THICK, DENSITY 32-35 KG/CUM, AS ROOF INSULATION WITH SHIP-LAP EDGES, ANY SIZE OF SHEET, ALL AS SPECIFIED.	188	SQM			
39	PROVIDING AND LAYING 50 MM THICK SCREED BED ON BOND-BREAKING MATERIAL, INCLUDING TWO COATS OF ELASTOMERIC CEMENTITIOUS WATERPROOFING COATING, COMPLETE AS SPECIFIED.	111	SQM			
40	PROVIDING AND LAYING SINGLE LAYER OF POLYESTER-BASED ROOFING BITUMEN FELT, INCLUDING PRIMER AND STICKING COAT, FOLLOWED BY A DOUBLE-LAYER FELT MEMBRANE, COMPLETE AS SPECIFIED.	365	SQM			
41	PROVIDING AND LAYING 50 MM THICK SCREED BED, 20 MM THICK TERRAZZO FLOOR USING MARBLE CHIPS (1:2), INCLUDING CUTTING, RUBBING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	367	SQM			
42	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:3 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	3,930	SQM			

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SUB-HEAD	**ANCILLARY CIVIL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
43	PROVIDING AND APPLYING 19 MM THICK CEMENT-SAND PLASTER (1:3 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	88	SQM			
44	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:4 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	5,740	SQM			
45	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:6 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	6,264	SQM			
46	APPLYING THREE COATS OF PLASTIC EMULSION PAINT ON WALLS AND CEILING, COMPLETE AS SPECIFIED.	3,437	SQM			
47	APPLYING THREE COATS OF WEATHER-SHIELD PAINT ON EXTERIOR SURFACES (NEW), COMPLETE AS SPECIFIED.	1,351	SQM			
48	APPLYING THREE COATS OF WHITE WASH ON CEILING, COMPLETE AS SPECIFIED.	1,945	SQM			
49	APPLYING THREE COATS OF DISTEMPER ON WALLS, COMPLETE AS SPECIFIED.	5,844	SQM			
50	PROVIDING AND APPLYING TWO COATS OF WATERPROOFING COMPOUND USING BITUMEN 10/20 APPLIED HOT AT 4.90 KG PER 10 SQM, COMPLETE AS SPECIFIED.	129	SQM			
51	PROVIDING AND APPLYING 13 MM THICK CEMENT PLASTER 1:4 INCLUDING DECORATIVE PLASTER (EXTERNAL) FINISH, COMPLETE AS SPECIFIED.	479	SQM			
52	PROVIDING AND APPLYING 13 MM THICK CEMENT PLASTER 1:4 WITH PUDLO OR OTHER SIMILAR APPROVED WATERPROOFING MATERIAL MIXED WITH CEMENT AT 3% BY WEIGHT, COMPLETE AS SPECIFIED.	26	SQM			
53	PROVIDING AND APPLYING 13 MM THICK CEMENT PLASTER 1:4, INCLUDING ONE COAT OF HOT BITUMEN AT 0.75 KG PER SQM AND BLINDING WITH SAND AT 0.012 CUM PER SQM (BELOW GROUND LEVEL), COMPLETE AS SPECIFIED.	208	SQM			
54	PROVIDING AND APPLYING 13 MM THICK CEMENT PLASTER 1:4, INCLUDING THREE COATS OF CEMENT SLURRY WASH ON NEW/OLD SURFACE, COMPLETE AS SPECIFIED.	19	SQM			
55	FORMING V-GROOVES 13 MM WIDE AND 10 MM DEEP IN NEW PLASTER, COMPLETE AS SPECIFIED.	139	MTR			
56	FORMING V-GROOVES 25 MM WIDE AND 10 MM DEEP IN NEW PLASTER, COMPLETE AS SPECIFIED.	427	MTR			
57	FORMING V-GROOVES 25 MM WIDE AND 10 MM DEEP IN NEW PLASTER, INCLUDING SUPPLY AND FIXING ALUMINIUM COVER STRIP 60 MM WIDE X 2 MM THICK WITH ALL FITTINGS FOR ALL JOINTS, COMPLETE AS SPECIFIED.	149	MTR			
59	PROVIDING AND LAYING PLINTH PROTECTION 3 FEET WIDE, 3 INCH THICK PCC 1:2:4, INCLUDING EDGE WALL, PCC BLOCK, AND MARBLE PATTY, USING SULPHATE-RESISTANT CEMENT (SRC), COMPLETE AS SPECIFIED.	1,460	SQM			

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	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
60	PROVIDING AND LAYING 50 MM THICK SCREED BED ON BOND-BREAKING MATERIAL, COMPLETE AS SPECIFIED.	139	SQM			
61	PROVIDING AND LAYING STANDARD QUALITY TILES OF ANY MAKE EXCEEDING 1600 SQ CM ON WALLS AND FLOORS, INCLUDING SETTING, JOINTING AND BONDING, COMPLETE AS SPECIFIED.	243	SQM			
62	PROVIDING AND LAYING STANDARD QUALITY MARBLE TILES (VARIOUS COLOURS) OF ANY SIZE, 20 MM THICK, INCLUDING SETTING, JOINTING, BONDING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	233	SQM			
63	PROVIDING AND LAYING STANDARD QUALITY MARBLE TILES (VARIOUS COLOURS) OF ANY SIZE, 13 MM THICK, INCLUDING SETTING, JOINTING, BONDING AND CHEMICAL POLISHING (SKIRTING), COMPLETE AS SPECIFIED.	41	SQM			
64	PROVIDING AND LAYING 13 MM THICK TERRAZZO IN DADO/SKIRTING USING MARBLE CHIPS (1:2), INCLUDING 10 MM CEMENT PLASTER 1:3, CUTTING, RUBBING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	460	SQM			
65	PROVIDING AND LAYING 20 MM THICK TERRAZZO FLOOR USING MARBLE CHIPS (1:2), INCLUDING CUTTING, RUBBING, CLEANING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	2,811	SQM			
66	PROVIDING AND LAYING 13 MM THICK STONOLITHIC 150 MM DADO/SKIRTING, INCLUDING 10 MM CEMENT PLASTER CM 1:4 AND TUCKING IN TOP EDGE, COMPLETE AS SPECIFIED.	25	SQM			
67	PROVIDING AND LAYING 20 MM THICK STONOLITHIC LAYER SPREAD OVER ORDINARY CONCRETE FLOORS, INCLUDING MARBLE PATTY AND RUBBING, COMPLETE AS SPECIFIED.	213	SQM			
68	PROVIDING AND LAYING 19 MM THICK TERRAZZO FLOOR, MARBLE CHIPS 1:2 MIXED WITH ORDINARY CEMENT, EXCLUDING CUTTING, RUBBING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	518	SQM			
69	SUPPLY AND FIXING 8-10 MM THICK AND 40 MM WIDE MARBLE PATTY AS DIVIDING STRIPS IN FLOORS, COMPLETE AS SPECIFIED.	3,284	MTR			
70	SUPPLY AND FIXING 25 MM THICK MARBLE SLAB AROUND VANITY BOWL WITH BRACKETS, INCLUDING CUTTING, RUBBING, POLISHING AND WATERTIGHT JOINTS, COMPLETE AS SPECIFIED.	15	SQM			
71	SUPPLY AND FIXING GYPSUM CEILING TILES 600 MM X 600 MM X 7.5 MM THICK, INCLUDING ALUMINIUM TEE/ANGLE FRAMING, HANGER CLIPS, JOINTING CLIPS AND GI WIRE, COMPLETE AS SPECIFIED.	69	SQM			
72	SUPPLY AND FIXING 13 MM THICK SOFT BOARD SHEET IN CAVITIES, COMPLETE AS SPECIFIED.	7	SQM			

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	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
73	APPLYING PRIMER COAT ON NEW WOOD WORK SUCH AS TIMBER WORK IN CEILING AND TIMBER BOARDING, COMPLETE AS SPECIFIED.	33	SQM			
74	SUPPLY AND FIXING 1ST CLASS SOFT WOOD (DEODAR) FRAMED AND PANELLED DOORS, PANELS FILLED WITH MDF 16 MM SHEET (EXCEPT CHOWKATS), INCLUDING HOLDFAST, MONGERY AND THREE COATS SYNTHETIC ENAMEL PAINT, 38 MM THICK, COMPLETE AS SPECIFIED.	206	SQM			
75	SUPPLY AND FIXING 1ST CLASS SOFT WOOD (DEODAR) GLAZED DOORS WITH MOULDED/CHAMFERED BARS, PANELS FILLED WITH GLASS, HOLDFASTS, HINGES/PIVOTS, MONGERY AND THREE COATS SYNTHETIC ENAMEL PAINT (EXCEPT CHOWKATS), 38 MM THICK, COMPLETE AS SPECIFIED.	47	SQM			
76	SUPPLY AND FIXING 38 MM FIRST CLASS SOFT WOOD (DEODAR) GLAZED DOOR, 9X9 MESH 24 GAUGE, EXCLUDING CHOWKATS, HOLDFASTS, HINGES/PIVOTS, MONGERY, WITH THREE COATS SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	6	SQM			
77	SUPPLY AND FIXING 38 MM THICK FIRST CLASS SOFT WOOD HOLLOW FLUSH DOOR, INCLUDING 3 MM THICK TEAK PLY BOTH SIDES AND BRASS CP MONGERY, EXCEPT CHOWKAT, KICK PLATES AND BOW HANDLES, COMPLETE AS SPECIFIED.	43	SQM			
78	SUPPLY AND FIXING 38 MM THICK 1ST CLASS SOFT WOOD (DEODAR) FRAMED AND PANELLED DOORS, PANELS FILLED WITH MDF 16 MM SHEET, INCLUDING 2X2 ARCHITRAVE WITH ALL FITTINGS, CHOWKAT AND THREE COATS SYNTHETIC ENAMEL PAINT (LOCKERS), COMPLETE AS SPECIFIED.	77	SQM			
79	SUPPLY AND FIXING 1ST CLASS SOFT WOOD (DEODAR) GAUZED DOORS, 9X9 MESH 24 GAUGE, 38 MM THICK, WITHOUT CHOWKATS, INCLUDING THREE COATS SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	22	SQM			
80	SUPPLY AND FIXING 38 MM THICK 1ST CLASS SOFT WOOD GAUZE DOORS, GATES ETC., EXCEPT CHOWKATS, INCLUDING CP IRON MONGERY AND THREE COATS SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	3	SQM			
81	SUPPLY AND FIXING TUBULAR PARTICLE BOARD ENGINEERED DOOR 38 MM THICK, INCLUDING MONGERY, DOLLY FRAME CHOWKATS 2X2 ALL AROUND, AND TWO COATS SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	60	SQM			
82	SUPPLY AND FIXING BOX-PIPE TYPE OPENABLE AND FIXED SIDE-HUNG WINDOW OR CSW USING 16 GAUGE FRAME 50X25 MM, PANEL Z 38X31X38 MM, 10X10 MM SQUARE GOLA, NOT EXCEEDING 1.48 SQM EACH, WITH FITTINGS/MONGERY, HOLDFAST, TWO COATS SYNTHETIC ENAMEL PLUS PRIMER, INCLUDING 5 MM PLAIN SHEET GLASS, COMPLETE AS SPECIFIED.	254	SQM			

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	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
83	SUPPLY AND FIXING UPVC SLIDING WINDOW, 37 MM THICK SHUTTER WITH FRAME 80X50 MM, EXCEEDING 2.23 SQM EACH, WHITE, WITH FITTINGS, MONGERY, FLY-PROOF NETTING, INCLUDING 5 MM TINTED SHEET GLASS, COMPLETE AS SPECIFIED.	175	SQM			
84	SUPPLY AND FIXING UPVC SLIDING WINDOW, DOUBLE GLAZED 5 MM TINTED GLASS, 37 MM THICK SHUTTER WITH FRAME 80X50 MM, EXCEEDING 2.23 SQM EACH, COMPLETE AS SPECIFIED.	29	SQM			
85	SUPPLY AND FIXING UPVC OPENABLE WINDOW, 60 MM THICK SHUTTER WITH FRAME, DOUBLE GLAZING 5 MM TINTED GLASS, EXCEEDING 2.23 SQM EACH, COMPLETE AS SPECIFIED.	6	SQM			
86	SUPPLY AND FIXING 1.6 MM ALUMINIUM SLIDING WINDOW, DELUXE QUALITY, WOOD-LOOK COLOUR EXTRUDED SECTION, INCLUDING 5 MM THICK GLASS, COMPLETE AS SPECIFIED.	45	SQM			
87	SUPPLY AND FIXING BOX TYPE STEEL SLIDING/FIXED WINDOW OR CSW, 16 GAUGE FRAME 75X30 MM, PANEL 25X50 MM GOLA, INCLUDING FITTINGS, MONGERY, HOLDFAST, SYNTHETIC ENAMEL PAINT, PRIMER, GLASS PANES, GRILL AND WIRE GAUZE, COMPLETE AS SPECIFIED.	26	SQM			
88	SUPPLY AND FIXING ALUMINIUM TINNED WIRE GAUZE, 16X16 MESH, 26 GAUGE, FIXED WITH FLAT IRON 13X3 MM TO STEEL WINDOW FRAMES WITH SCREWS 75 MM OLC, COMPLETE AS SPECIFIED.	134	SQM			
89	SUPPLY AND FIXING ALUMINIUM FLY/INSECT SCREENING WITH MESH (PREMIUM MODEL), ANODIZED EXTRUDED SECTION, INCLUDING FIXING ON CONCRETE/WOOD/STEEL FRAMES, COMPLETE AS SPECIFIED.	25	SQM			
90	SUPPLY AND FIXING UPVC DOOR, 60 MM THICK SHUTTER, GROOVE PANEL 20 MM THICK, FILLED AS PER FIG 07-2 SKETCH 7-2.4 INSTEAD OF GLASS, COMPLETE, EXCEEDING 1.9 SQM EACH, WHITE, WITH FITTINGS, MONGERY AND FLY-PROOF NETTING, COMPLETE AS SPECIFIED.	170	SQM			
91	SUPPLY AND FIXING UPVC OPENABLE DOOR, 60 MM THICK SHUTTER WITH FRAME, EXCEEDING 2.23 SQM EACH, WHITE, WITH FITTINGS, MONGERY, AND PLASTIC WIRE GAUZE MOSQUITO PROOF 18X18 MESH 28 GAUGE (FOR GAUZE DOOR), COMPLETE AS SPECIFIED.	18	SQM			

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	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
92	SUPPLY AND FIXING GUARD BARS, GRILLS, RAILINGS, LADDERS, BRACKETS, HOOKS, HOLDFASTS AND FRAMES ETC., CUT TO DEAD LENGTH, REDUCED TO SIZE/SHAPE, FIGURE ETC. INCLUDING PUNCHING / DRILLING HOLES IF NECESSARY AND FIXING, ASSEMBLING BY WELDING OR BOLTS/NUTS/RIVETS/WASHERS ETC. AND ERECTION / FIXING IN POSITION INCLUDING MAKING GOOD DISTURBED SURFACES, COMPLETE AS SPECIFIED.	35,260	SQM			
93	SUPPLY AND FIXING CP LOCK OR LATCH, 150 MM DELUXE, TWO BOLTS, TWO LEVERS, COMPLETE.	10	EACH			
94	SUPPLY AND FIXING RIM LOCK/LATCH CP BEST QUALITY, TWO KEYS, TWO LEVERS, COMPLETE.	19	EACH			
95	SUPPLY AND FIXING DOOR CLOSER (DELUXE), ANODIZED BRONZE, COMPLETE.	14	NO			
96	SUPPLY AND FIXING ALUMINIUM DOOR CLOSER (PREMIUM), ANODIZED BRONZE, COMPLETE.	10	EACH			
97	SUPPLY AND FIXING UPVC DOOR LOCK, COMPLETE.	19	NO			
98	SUPPLY AND FIXING UPVC DOOR HANDLE, COMPLETE.	47	NO			
99	SUPPLY AND FIXING 300 MM CP SLIDING/LOCKING BOLTS WITH STAPLE, COMPLETE.	111	EACH			
100	SUPPLY AND FIXING 150 MM HELICAL STEEL SPRING FOR DOORS, CP, COMPLETE.	127	EACH			
101	SUPPLY AND FIXING BRASS PEGS 125 MM OR OVER, COMPLETE.	15	EACH			
102	SUPPLY AND FIXING STAINLESS STEEL KICK PLATE (16-18G), COMPLETE.	1	SQM			
103	SUPPLY AND FIXING FILLETS (UP TO 12.90 SQ CM) 1ST CLASS SOFT WOOD, WROUGHT AND SCREWED, COMPLETE.	101	MTR			
104	SUPPLY AND FIXING 5 MM TINTED GLASS TO TIMBER/STEEL SASHES WITH BEADS OR RUBBER LINING, COMPLETE.	48	SQM			
105	SUPPLY AND FIXING GENERAL STEEL WORK (HOLDFASTS, FLAT IRON, WALL TIES) CUT TO LENGTH, DRILLED AND ERECTED, COMPLETE.	291	KG			
106	SUPPLY AND FIXING STAINLESS STEEL GRADE 304 HAND RAILING (3/4 INCH TO 2 INCH DIA, 16-18G PIPE), COMPLETE.	108	MTR			
107	SUPPLY AND FIXING 2 INCH X 2 INCH MS HOLLOW PIPE (16G), INCL WELDING AND PAINTING, COMPLETE.	48	MTR			
108	SUPPLY AND FIXING XPM (EXPANDED METAL) BRC WELD-MESH, INCL BINDING WIRE, COMPLETE.	91	SQM			

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	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
109	SUPPLY AND FIXING UPVC DUCT COVERS USING UPVC FILLETS 45 MM X 20 MM, COMPLETE.	6	SQM			
110	APPLYING TWO COATS WEATHER-RESISTANT PAINT ON EXTERIOR WALL (OLD), COMPLETE.	857	SQM			
111	APPLYING TWO COATS SYNTHETIC ENAMEL PAINT, COMPLETE.	53	SQM			
112	SUPPLY AND FIXING 5 MM SILVERED GLASS MIRROR, GROUND EDGES, COMPLETE.	41	SQM			
113	SUPPLY AND FIXING PLASTIC SHELF WITH PLUGS AND SCREWS, COMPLETE.	31	EACH			
114	SUPPLY AND FIXING CP TOWEL RAIL (SINGLE ROD), COMPLETE.	53	EACH			
115	SUPPLY AND FIXING SOAP/SPONGE TRAY WITH PLUGS AND SCREWS, COMPLETE.	43	EACH			
116	SUPPLY AND FIXING TOILET PAPER HOLDER, PAK MADE, COMPLETE.	1	EACH			
117	SUPPLY AND FIXING 6-PIECE BATH SET (PLASTIC), COMPLETE.	2	EACH			
118	SUPPLY AND FIXING 7-PIECE BATH SET (DELUXE, CP/YC), COMPLETE.	12	EACH			
119	SUPPLY AND FIXING VANITY BOWL (GLAZED), INCL BOTTLE TRAP, WASTE COUPLING, CP MIXER, COMPLETE.	44	EACH			
120	SUPPLY AND FIXING WHB (660X560 MM), INCL WASTE, COUPLING, PLUG, CP MIXER, COMPLETE.	15	EACH			
121	SUPPLY AND FIXING WHB WITH PEDESTAL (660X560 MM), INCL WASTE, CHAIN, PLUG, COMPLETE.	2	EACH			
122	SUPPLY AND FIXING WC (EUROPEAN COUPLED), DELUXE, COMPLETE.	16	EACH			
123	SUPPLY AND FIXING WC (ASIATIC, >550 MM) WITH FLUSHING SYSTEM, COMPLETE.	55	EACH			
124	SUPPLY AND FIXING URINAL BASIN (STALL PATTERN), INCL FLUSHING PIPE, COMPLETE.	1	EACH			
125	SUPPLY AND FIXING CP SHOWER ROSE (FIXED/ADJUSTABLE), COMPLETE.	2	EACH			
126	SUPPLY AND FIXING TOILET SHOWER, 100 MM DIA, COMPLETE.	4	EACH			
127	SUPPLY AND FIXING SINK MIXER, STANDARD, COMPLETE.	4	EACH			
128	SUPPLY AND FIXING STAINLESS STEEL SINK SCULLERY (SINGLE/DOUBLE BOWL), INCL CP MIXER, COMPLETE.	3	EACH			
129	SUPPLY AND FIXING KITCHEN FLOOR/SINK CABINET (600X862 MM), INCL MONGERY, MARBLE SLAB, COMPLETE.	37	SQM			
130	SUPPLY AND FIXING KITCHEN WALL CABINET (381X610 MM), INCL CP MONGERY, COMPLETE.	33	MTR			
131	SUPPLY AND FIXING KITCHEN EXHAUST HOOD (TEAK VENEER + PGI SHEET), COMPLETE.	1	MTR			
132	SUPPLY AND FIXING WARDROBE (BUILT-IN CABINET), INCL FRAME, SHUTTERS, MONGERY, COMPLETE.	86	SQM			

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	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
133	SUPPLY AND FIXING 50 MM PRECAST RCC JALI, INCL SETTING AND JOINTING, COMPLETE.	5	SQM			
134	CONSTRUCTION OF KHURRA (TOP ROOF OR GROUND), INCL PCC BASE AND BRICKWORK, COMPLETE.	7	NO			
135	CONSTRUCTION OF CHIMNEY STACK, INCL BRICKWORK, PLASTER, GI FLASHING, COMPLETE.	6	EACH			
136	PROVIDING EXPANSION JOINT (13 MM WIDE) WITH BITUMEN FILLER, COMPLETE.	1	JOB			
137	CONSTRUCTION OF GREASE TRAP (NOT EXCEEDING 600 MM DEEP), COMPLETE.	11	EACH			
138	PROVISION OF HEATER RECESS, INCL BRICKWORK, PLASTER, PCC, COMPLETE.	6	EACH			
139	SUPPLY AND FIXING CHULLAH HOOD, INCL MS FRAME, GI SHEET, PLASTER, COMPLETE.	1	EACH			
140	SUPPLY AND FIXING OF PROPRIETARY CLAY TANDOOR COMPLETE, INCLUDING ALL LABOR, MATERIALS, PLANT, SCAFFOLDING, AND TESTING, COMPRISING SUPPLY AND INSTALLATION OF THE PROPRIETARY CLAY TANDOOR UNIT WITH ITS INSULATED CLAY BODY AND LINING, MILD STEEL OR CAST IRON GRILL AND FRAME, ASH COLLECTION TRAY, CHIMNEY/FLUE CONNECTION, AND ALL NECESSARY ACCESSORIES, COMPLETE WITH FIXING IN POSITION, SEALING, AND FINISHING TO MAKE THE INSTALLATION FULLY FUNCTIONAL, STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, THE APPROVED DRAWING, AND ALL APPLICABLE LOCAL CODES AND STANDARDS, WITH THE CONTRACTOR RESPONSIBLE FOR ENSURING PROPER ALIGNMENT, LEVELING, AND SAFE TERMINATION OF THE FLUE, AND FOR DEMONSTRATING SATISFACTORY WORKING PERFORMANCE (INCLUDING PROPER DRAFT AND COMBUSTION) UPON COMPLETION, ALL TO THE ENTIRE SATISFACTION OF THE ENGINEER-IN-CHARGE.	1	EACH			
141	SEWERAGE HANG ARRANGEMENT, COMPLETE WITH U-TRAPEZE HANGER, EPOXY FILLING, CEMENTITIOUS GROUT, CORE CUT, COMPLETE.	1	JOB			
142	EXCAVATE, DISPOSE SPOIL, SUPPLY SURFACE GULLIES (230X230X100 MM) WITH 100 MM PCC SURROUND AND CI GRATING, COMPLETE.	62	EACH			
143	CONSTRUCTION OF MANHOLES, COMPLETE, NOT EXCEEDING 600 MM DEEP, BRICK WALLS, EXCEPT COVER, COMPLETE.	78	CUM			
144	CONSTRUCTION OF MANHOLES, COMPLETE, 600-1800 MM DEEP, WITH IRON STEPS, BRICK WALLS, EXCEPT COVER, COMPLETE.	12	CUM			
145	PROVIDING AND LAYING PRECAST RCC MANHOLE COVER WITH ANGLE IRON FRAME, COMPLETE.	192	EACH			

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	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
146	SUPPLY AND FIXING RCC PIPES 150 MM BORE, LAID AND JOINTED, COMPLETE.	234	MTR			
147	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 50 MM DIA, WITH SOLVENT CEMENT JOINT, COMPLETE.	155	MTR			
148	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 75 MM DIA, WITH SOLVENT CEMENT JOINT, COMPLETE.	478	MTR			
149	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 110 MM DIA, WITH SOLVENT CEMENT JOINT, COMPLETE.	530	MTR			
150	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 160 MM BORE, WITH SOLVENT CEMENT JOINT, COMPLETE.	293	MTR			
151	SUPPLY AND FIXING UPVC ELBOW/BEND 90 DEG 75 MM DIA, COMPLETE.	71	EACH			
152	SUPPLY AND FIXING UPVC ELBOW/BEND 90 DEG 110 MM DIA, COMPLETE.	198	EACH			
153	SUPPLY AND FIXING 75 MM DIA UPVC ELBOW/BENDS 90 DEG, COMPLETE.	2	EACH			
154	SUPPLY AND FIXING 110 MM DIA UPVC ELBOW/BENDS 90 DEG, COMPLETE.	2	EACH			
155	SUPPLY AND FIXING ECCENTRIC REDUCER 50 MM X 110 MM DIA, COMPLETE.	69	EACH			
156	SUPPLY AND FIXING UPVC EQUAL TEE 110 MM DIA, COMPLETE.	82	EACH			
157	SUPPLY AND FIXING UPVC ACCESS/DOOR TEE 110 MM DIA, COMPLETE.	13	EACH			
158	SUPPLY AND FIXING UPVC ACCESS/DOOR TEE 75 MM DIA, COMPLETE.	4	EACH			
159	SUPPLY AND FIXING UPVC REDUCER Y-TEE 75 MM X 110 MM DIA, COMPLETE.	5	EACH			
160	SUPPLY AND FIXING UPVC VENT COWL 50 MM DIA, COMPLETE.	61	EACH			
161	SUPPLY AND FIXING 100 MM DIA FLOOR TRAP WITH GRATING, COMPLETE.	110	EACH			
162	SUPPLY AND FIXING 150 MM DIA (MEDIUM) GI WATER PIPE WITH FITTINGS, COMPLETE.	410	MTR			
163	SUPPLY AND FIXING 200 MM DIA (4.8 MM THICK) GI WATER PIPE WITH FITTINGS, COMPLETE.	57	MTR			
164	SUPPLY AND FIXING 150 MM DIA SLUICE VALVE (BSS-3464), COMPLETE.	2	EACH			
165	SUPPLY AND FIXING 150 MM DIA MS/GI FLANGES, COMPLETE.	4	EACH			
166	SUPPLY AND INSTALLATION OF WATER GAUGE WITH FLOAT AND ACCESSORIES, COMPLETE.	1	EACH			

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SUB-HEAD	**ANCILLARY CIVIL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
167	DESIGN, SUPPLY, FABRICATION, AND CONSTRUCTION OF A COMPLETE REINFORCED CEMENT CONCRETE (RCC) OVERHEAD WATER TANK ON BUILDING ROOF, INCLUDING ALL LABOR, MATERIALS, PLANT, SCAFFOLDING, AND TESTING, COMPRISING SURFACE PREPARATION OF THE EXISTING ROOF SLAB, RCC PEDESTALS AND COLUMNS WITH BRACING, RCC TANK BODY COMPRISING WALLS AND BED SLAB, RCC ROOF SLAB WITH MANHOLE COVER, COMPLETE MS ACCESS LADDER WITH ANCHOR CONNECTIONS, ALL INTERNAL PLUMBING (INLET, OUTLET, OVERFLOW, WASHOUT PIPES WITH VALVES, AND WATER LEVEL INDICATOR), COMPLETE MS RAILING, AND LIGHTNING ARRESTER WITH GROUNDING, STRICTLY ADHERING TO GRADE-60 DEFORMED STEEL, SPECIFIED CONCRETE MIXES, AND LOCAL SEISMIC AND WIND PARAMETERS, WITH PERFORMANCE PARAMETERS INCLUDING A STORAGE CAPACITY [>20,000 US GALLONS], FREEBOARD, ZERO-LEAKAGE WATERPROOFING, AND COMPLIANCE WITH ALL STRUCTURAL SAFETY AND SERVICEABILITY REQUIREMENTS AS PER BCP.	15	EACH			
168	ELECTRIC WELDING WORKS, COMPLETE AS PER SPECIFICATION.	60	MTR			
					TOTAL	

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PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**		
LOCATION	**DALBANDIN**	PROVINCE	**BALOCHISTAN**
SUB-HEAD	**RENOVATION OF PTB**		

	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (FIG)	RATE (WORDS)	AMOUNT
1	TAKING UP OR DOWN TILES/MARBLE/GRANITE WORK OF ANY TYPE LAID IN FLOORS/WALLS ETC., INCLUDING STACKING SERVICEABLE MATERIAL AND DISPOSING OF UN-SERVICEABLE MATERIAL, COMPLETE AS SPECIFIED.	112	SQM			
2	DISMANTLING SINGLE TILING OF BRICK OR PCC IN ROOF OR FLOOR, LAID IN CEMENT MORTAR, INCLUDING HALF BRICKS OR BLOCKS ON EDGE, IN ANY POSITION, INCLUDING DISPOSAL OF DEBRIS, COMPLETE AS SPECIFIED.	139	SQM			
3	DEMOLITION OF PLAIN CEMENT CONCRETE OF ANY THICKNESS, INCLUDING BREAKING, STACKING AND DISPOSAL OF DEBRIS, COMPLETE AS SPECIFIED.	27	CUM			
4	TAKING DOWN DOOR OR GATE LEAVES ONLY (SINGLE OR FOLDING) OF ANY PATTERN OR THICKNESS NOT EXCEEDING 2.60 M EACH, INCLUDING REMOVAL OF FITTINGS AND STACKING SERVICEABLE MATERIAL, COMPLETE AS SPECIFIED.	18	EACH			
5	REMOVING WHITE/COLOUR WASH, DISTEMPER, PLASTIC EMULSION PAINT AND WEATHER RESISTANT PAINT FROM PLASTERED/UN-PLASTERED SURFACES BY SCRAPING, SANDING OR CHEMICAL MEANS, INCLUDING CLEANING THE SURFACE, COMPLETE AS SPECIFIED.	934	SQM			
6	EXCAVATION IN ORDINARY SOIL UP TO 1.5 M DEPTH, IN FOUNDATIONS AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA.	15	CUM			

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SUB-HEAD	**RENOVATION OF PTB**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
7	SUPPLY AND FIXING RCC PIPES 230 MM BORE, LAID AND JOINTED WITH SPIGOT-SOCKET OR COLLARS, INCLUDING RUBBER RING, COMPLETE AS SPECIFIED.	64	MTR			
8	CONSTRUCTION OF BRICK MASONRY MANHOLE, RECTANGULAR OR CIRCULAR, EXCEEDING 600 MM DEEP BUT NOT EXCEEDING 1800 MM DEEP, WITH IRON STEPS AT 380 MM CENTRES, 230 MM THICK BRICK WALLS, EXCLUDING COVER, COMPLETE AS SPECIFIED.	17	CUM			
9	SUPPLY AND FIXING UPVC SOIL AND WASTE PIPE 110 MM DIAMETER, COMPLETE WITH Z-JOINT AND RUBBER RING, COMPLETE AS SPECIFIED.	46	MTR			
10	SUPPLY AND FIXING STEEL CHOWKAT, PRESS-MOULDED 18 SWG, FOR 115 MM WALLS, SINGLE LEAF, INCLUDING HOLDFAST, TIES FOR LATERAL MOVEMENT, PCC 1:2:4 CAVITY FILLING, ONE COAT ANTI-CREOSOTE PAINT (INTERNAL) AND RED OXIDE PAINT (EXTERNAL), COMPLETE AS SPECIFIED.	26	MTR			
11	PROVIDING AND APPLYING 19 MM THICK CEMENT-SAND PLASTER (1:4 MIX) ON INTERNAL WALL SURFACES (BASEMENT, GROUND, FIRST AND SECOND FLOORS), FINISHED SMOOTH, COMPLETE AS SPECIFIED.	139	SQM			
12	PROVIDING AND LAYING 50 MM THICK SCREED BED ON BOND-BREAKING MATERIAL, COMPLETE AS SPECIFIED.	139	SQM			
13	PROVIDING AND LAYING STANDARD QUALITY TILES OF ANY MAKE NOT EXCEEDING 1600 SQ CM (16 INCH X 16 INCH), INCLUDING SETTING, JOINTING AND BONDING, COMPLETE AS SPECIFIED.	185	SQM			
14	SUPPLY AND FIXING GYPSUM CEILING TILES 600 MM X 600 MM X 7.5 MM THICK, INCLUDING ALUMINIUM TEE/ANGLE FRAMING, HANGER CLIPS, JOINTING CLIPS AND GI WIRE, COMPLETE AS SPECIFIED.	142	SQM			

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SUB-HEAD	**RENOVATION OF PTB**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
15	APPLYING PRIMER COAT ON NEW WOOD WORK SUCH AS TIMBER WORK IN CEILING AND TIMBER BOARDING, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	33	SQM			
16	SUPPLY AND FIXING 38 MM THICK 1ST CLASS SOFT WOOD (DEODAR) FRAMED AND PANELLED DOORS, INCLUDING CHOWKATS, HOLDFASTS, MONGERY AND TWO COATS OF SYNTHETIC ENAMEL PAINT, COMPLETE AS SPECIFIED.	10	SQM			
17	RE-SECURING WITHOUT TAKING DOWN DOOR CHOWKATS EXCEEDING 2.60 M EACH, INCLUDING ARCHITRAVES IF ANY, HARD/SOFT WOOD, INCLUDING ADJUSTMENT AND PLUGGING, COMPLETE AS SPECIFIED.	18	EACH			
18	SUPPLY AND FIXING ALUMINIUM SWING DOOR, SINGLE SHUTTER, DELUXE QUALITY, ANODIZED ALUMINIUM EXTRUDED SECTION, ANY SIZE/COLOUR/TEXTURE, FIXED ON CONCRETE/WOOD/STEEL FRAMES, COMPLETE EXCEPT GLASS, LOCK AND HANDLE.	24	SQM			
19	SUPPLY AND FIXING ALUMINIUM SLIDING WINDOW, PREMIUM QUALITY, ANODIZED ALUMINIUM EXTRUDED SECTION, ANY SIZE/COLOUR/TEXTURE, FIXED ON CONCRETE/WOOD/STEEL FRAMES, WITH ALL NECESSARY FITTINGS EXCEPT GLASS.	25	SQM			
20	SUPPLY AND FIXING 5 MM THICK TINTED GLASS, FIXED TO TIMBER OR STEEL SASHES WITH HARD/SOFTWOOD BEADS AND SCREWS OR RUBBER LINING, COMPLETE AS SPECIFIED.	48	SQM			
21	SUPPLY AND FIXING CP LOCK OR LATCH, 150 MM DELUXE QUALITY, WITH TWO BOLTS AND TWO LEVERS, IN ANY PATTERN/SHAPE, COMPLETE AS SPECIFIED.	10	EACH			
22	SUPPLY AND FIXING ALUMINIUM DOOR CLOSER, PREMIUM MODEL, ANODIZED BRONZE, COMPLETE AS SPECIFIED.	10	EACH			

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SUB-HEAD	**RENOVATION OF PTB**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
23	APPLYING TWO COATS OF APPROVED WEATHER-RESISTANT EXTERIOR PAINT ON OLD PLASTERED EXTERIOR WALL SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	857	SQM			
24	SUPPLY AND FIXING WALL SHOWER SET SINGLE LEVER CP (STANDARD), CONSISTING OF WALL SHOWER, DOUBLE BIB COCK, TEE STOP COCK, BASIN MIXER AND TOILET SHOWER, COMPLETE AS SPECIFIED.	1	EACH			
25	SUPPLY AND FIXING TOILET SHOWER, 15 MM DIAMETER, COMPLETE AS SPECIFIED.	2	EACH			
26	SUPPLY AND FIXING VANITY BOWL, GLAZED WARE, ONE HOLE, WITH BOTTLE TRAP AND WASTE COUPLING, COMPLETE AS SPECIFIED (EXCLUDING MIXER).	2	EACH			
27	SUPPLY AND FIXING WATER CLOSET (WC) OF DELUXE QUALITY, EUROPEAN PATTERN, COMPLETE (COUPLED), COMPLETE AS SPECIFIED.	2	EACH			
28	SUPPLY AND FIXING BATH ACCESSORIES SET (PLASTIC) CONSISTING OF SHELF, TOWEL RAIL, RING, BRUSH HOLDER, TOILET PAPER HOLDER, SOAP DISH AND MIRROR, COMPLETE AS SPECIFIED.	2	EACH			
29	PROVIDING AND LAYING PRECAST RCC 1:2:4 MANHOLE COVER WITH EMBEDDED ANGLE-IRON FRAME, AS PER INFORMATION SHEET SVCS-341, COMPLETE AS SPECIFIED.	15	NOS			
30	SUPPLY AND FIXING STAINLESS STEEL HANDRAIL FOR STAIRS/RAMPS/ACCESSIBILITY, USING 3/4 INCH TO 2 INCH DIA 16-18 GAUGE PIPE INCLUDING BALUSTERS AND ALL FITTINGS, HEIGHT UP TO 900 MM, COMPLETE AS SPECIFIED.	25	MTR			
31	PROVIDING AND LAYING 75 MM THICK PCC 1:2:4 PLINTH PROTECTION/USE FOR WHEELCHAIR RAMP BASE, USING CRUSHED STONES, SURFACE FINISHED AND SMOOTHED WITH CEMENT AND STEEL TROWEL, INCLUDING FORMWORK, COMPLETE AS SPECIFIED.	18	SQM			

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SUB-HEAD	**RENOVATION OF PTB**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
32	PROVIDING AND LAYING STANDARD QUALITY NON-SLIP FLOOR TILES FOR WHEELCHAIR RAMPS/ACCESSIBLE AREAS, INCLUDING SETTING, JOINTING AND BONDING, COMPLETE AS SPECIFIED.	18	SQM			
33	SUPPLY AND FIXING STEEL BUTT HINGES, 50 MM LONG, COMPLETE WITH SCREWS AND FIXING, FOR DOORS AND WINDOWS, COMPLETE AS SPECIFIED.	150	EACH			
34	SUPPLY AND FIXING CP TOWER BOLTS, 100 MM LONG, WITH BRIGHT SHOOTS, FIXED WITH SOCKETS OR LET INTO ANY MATERIAL, COMPLETE AS SPECIFIED.	50	EACH			
35	SUPPLY AND FIXING STEEL HANDLE BOW, 150 MM OVERALL, COMPLETE WITH SCREWS, COMPLETE AS SPECIFIED.	60	EACH			
36	SUPPLY AND FIXING STEEL KNOB 30 MM FOR CUPBOARD, HAVING SCREWED END, COMPLETE AS SPECIFIED.	40	EACH			
37	SUPPLY AND FIXING BRASS OR COPPER KICK PLATE (16-18 GAUGE), COMPLETE AS SPECIFIED.	8	SQM			
38	SUPPLY AND FIXING 13 MM THICK SOFT BOARD SHEET, FIXED IN CEILING AND PARTITIONS WITH 1ST CLASS SOFT WOOD (DEODAR) BEVELED EDGE COVER FILLETS 50 MM X 13 MM SCREWED ON, COMPLETE AS SPECIFIED.	45	SQM			
39	SUPPLY AND FIXING FIBRE GLASS CEILING PANELS (1200 MM X 600 MM), SINGLE PLY (NOT LESS THAN 1 MM THICK), IN ANY COLOUR/TEXTURE, INCLUDING ALUMINIUM TEE AND ANGLE 25X25X1 MM, HANGER CLIPS, JOINTING CLIPS AND GI 14 SWG WIRE, INCLUDING OPENINGS FOR LIGHTS, COMPLETE AS SPECIFIED.	65	SQM			
40	SUPPLY AND FIXING PLASTER OF PARIS (POP) CEILING TILES (600 MM X 600 MM X 20 MM), FIXED IN CEILING IN ANY DESIGN, PARTITIONS AND DADOS, COMPLETE AS SPECIFIED.	35	SQM			

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SUB-HEAD	**RENOVATION OF PTB**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
41	SUPPLY AND FIXING 10 MM THICK MDF SHEETS CEILING, ALONG WITH HANGING ARRANGEMENTS, ALUMINIUM TEE AND ANGLE 25X25X1 MM, INCLUDING HANGER CLIPS, JOINTING CLIPS, COMPLETE AS SPECIFIED.	30	SQM			
					TOTAL	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

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PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**		
LOCATION	**DALBANDIN**	PROVINCE	**BALOCHISTAN**
SUB-HEAD	**PUBLIC-HEALTH ENGINEERING**		

	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (FIG)	RATE (WORDS)	AMOUNT
1	IN ANY SOIL DRILLING BORE HOLE 450 MM DIA EMPLOYING REVERSE ROTARY HYDRAULIC PERCUSSION METHOD BORE UPTO 50 M DEPTH COMPLETE.	260	METRE			
2	IN ANY SOIL DRILLING BORE HOLE 450 MM DIA EMPLOYING REVERSE ROTARY HYDRAULIC / PERCUSSION METHOD BORE MORE THAN 50M BUT UPTO 100 M DEPTH COMPLETE.	230	METRE			
3	SUPPLY AND INSTALLATION MS BLIND PIPE 5 MM THICK 250MM DIA WITH WELDING JOINTS COMPLETE.	280	METRE			
4	SUPPLY AND LOWERING IN PREDRILLED BORE HOLE 250 MM DIA V-WIRE V-WEDGE CONTINUOUS SLOT STAINLESS STEEL WATER WELL SCREEN PROPER WELDED WITH MS PIPE COMPLETE.	140	METRE			
5	SUPPLY AND INSTALLATION OF BAIL PLUG 250 MM DIA OF APPROVED SPECIFICATIONS.	1	EACH			
6	SUPPLY AND POURING OF SHROUDING GRAVEL OF REQUISITE GRADE IN ANNULAR SPACE BETWEEN BLIND PIPE/STRAINER AND BORE HOLE ACCORDING TO SPECIFICATIONS FOR 250 MM DIA BLIND PIPE/STRAINER.	360	METRE			
7	PROVISION OF SANITARY SEAL OF APPROVED DESIGN AND SPECIFICATION FOR 250 MM DIA BLIND PIPE.	14	METRE			
8	DEVELOP TEST AND STERILIZE TUBE WELL IN ACCORDANCE WITH APPROVED PROCEDURE 250 MM DIA.	1	EACH			
9	EXCAVATE AS IN ORDINARY SOIL UPTO 1.5 M DEPTH IN FOUNDATION AND PIPE TRENCHES UPTO 1.5M WIDE IN SHAFTS WELLS AND INDEPENDENT HOLES UPTO 30 SQM EACH AND THROW EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10M. TIMBERING TO BE PAID EXTRA.	2083	CUM			
10	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 1.5 MTR BUT NOT EXCEEDING 3 MTR DEPTH.	340	CUM			
11	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 3 MTR BUT NOT EXCEEDING 4.50 MTR DEPTH.	42	CUM			

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SUB-HEAD	**PUBLIC-HEALTH ENGINEERING**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
12	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 4.5 MTR BUT NOT EXCEEDING 6.00 MTR DEPTH.	42	CUM			
13	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 6 MTR BUT NOT EXCEEDING 7.50 MTR DEPTH.	42	CUM			
14	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 7.50 MTR BUT NOT EXCEEDING 9.0 MTR DEPTH.	42	CUM			
15	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 9 MTR BUT NOT EXCEEDING 10.50 MTR DEPTH.	42	CUM			
16	EXCAVATE AS IN ORDINARY SOIL EXCEEDING 10.5 MTR BUT NOT EXCEEDING 12.0 MTR DEPTH.	42	CUM			
17	EXCAVATION AS IN HARD SOIL UPTO 1.5 M DEPTH IN FOUNDATION AND PIPE TRENCHES UPTO 1.5 M WIDE IN SHAFTS WELLS AND INDEPENDENT HOLES UPTO 30 SQM EACH AND THROW EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10M.	357	CUM			
18	EARTH FILLING AS IN ORDINARY OR HARD SOIL FILLING IN FOUNDATION PIPE TRENCHES SHAFTS WELLS INDEPENDENT HOLES UNDER FLOORS OR AROUND PLINTH ETC 1.5 M BELOW OR ABOVE GROUND LEVEL (GL) WITH SPOIL OBTAINED FROM EXCAVATION IN TRENCHES/OVER AREAS WITHIN 10M INCLUDING WATERING AND COMPACTION IN 150MM LAYER AND DRESSING TO REQUIRED PROFILE AND SHAPE.	802	CUM			
19	PROVIDING AND LAYING OF LEAN CONCRETE USING CRUSHED OR BROKEN STONE GRADED 1:4:8 ALL AS SPECIFIED.	21	CUM			
20	PROVIDING AND LAYING OF CC TYPE C USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED.	58	CUM			
21	PROVIDING AND LAYING OF RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH USING WEIGH BATCH CONCRETE INCLUDING PUMP ETC AND TRANSPORTATION UPTO 5 KM BY TRANSIT MIXER AS SPECIFIED IN ROOF SLABS LANDINGS WALLS PLINTH BEAMS AND BANDS ETC INCLUDING FORM WORK (REINFORCEMENT MEASURED AND PAID SEPARATELY).	11	CUM			
22	SUPPLY AND FIX BARS ROUND USING DEFORMED BARS GRADE - 40 INCLUDING CUTTING BENDING BINDING AND PLACING REINFORCEMENT IN POSITION.	921	KG			

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SUB-HEAD	**PUBLIC-HEALTH ENGINEERING**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
23	BURNT BRICK WORK IN WALL OVER 115 MM THICK LAID AND JOINTED IN CEMENT MORTAR 1:4 STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER UPTO 4.25 M DEPTH.	65	CUM			
24	BRICK BATS OR OTHER APPROVED FILLING IN SOKAGE PITS ETC.	291	CUM			
25	PROVIDING AND LAYING 13MM TH CEMENT PLASTER AS IN CM 1:4 WITH PUDLO OR OTHER SIMILAR APPROVED MATERIAL MIXED WITH CEMENT AT THE RATE OF 3% BY WEIGHT COMPLETE ALL AS SPD.	1367	SQM			
26	TUBE WATER QUALITY (GI) WITH ALL FITTINGS (I.E. SOCKETS BENDS TEES ELBOWS WHERE REQUIRED) AND LAID COMPLETE IN TRENCHES (EXCLUDING EXCAVATION) OR FIXED TO WALL FLOOR (SURFACE OR CONCEALED) AND CEILING ETC. INCLUDING CAPS AND PLUGS AS REQUIRED 100 MM DIA (MEDIUM) SUPPLY AND FIXING.	1293	METRE			
27	POLYETHYLENE PIPE (PE-100) 63 MM DIA CLASS PN-10/SDR-17 LAID IN TRENCHES (EXCLUDING EXCAVATION) SUPPLY AND FIXING.	92	MTR			
28	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 20 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	192	MTR			
29	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 25 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	1299	MTR			
30	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 32 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	697	MTR			
31	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 40 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	350	MTR			
32	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 50 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	207	MTR			
33	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 63 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	23	MTR			
34	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 75 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	705	MTR			

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SUB-HEAD	**PUBLIC-HEALTH ENGINEERING**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
35	PPR PIPE WITH ALL FITTINGS I.E. SOCKET BEND TEE ELBOW WHERE REQUIRED 110 MM DIA CLASS PN-20 (EXCL EXCAVATION) SUPPLY AND FIXING.	5	MTR			
36	POLYETHYLENE PIPE (PE-100) 160 MM DIA CLASS PN-16 / SDR-11 (EXCLUDING COST OF EXCAVATION) SUPPLY AND FIXING.	1900	METRE			
37	SUPPLY AND FIX RCC PIPES 300 MM BORE LAID AND JOINTED WITH SPIGOT SOCKET OR TONGUE AND GROOVE JOINT INCLUDE RUBBER RING AS SPECIFIED.	1866	MTR			
38	SUPPLY AND FIX UPVC SOIL AND WASTE PIPE 160MM BORE (OUTSIDE DIA) COMPLETE WITH PLAIN END AND SOLVENT CEMENT JOINT AS SPECIFIED.	58	MTR			
39	PPR COUPLER / SOCKET 40 MM DIA SUPPLY AND FIXING.	5	EACH			
40	SUPPLY AND FIX UPVC EQUAL TEE 160MM DIA COMPLETE WITH SOLVENT CEMENT JOINT ALL AS SPECIFIED.	6	NO			
41	BALL TAP WITH HANDLE 20 MM DIA FOR PPR PIPE.	16	EACH			
42	BALL TAP WITH HANDLE 25 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	108	EACH			
43	BALL TAP WITH HANDLE 32 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	16	EACH			
44	BALL TAP WITH HANDLE 40 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	20	EACH			
45	BALL TAP WITH HANDLE 50 OR 60 MM DIA FOR PPR PIPE.	2	EACH			
46	BALL TAP WITH HANDLE 63 MM DIA FOR PPR PIPE.	9	EACH			
47	SCREW TAP WITH HANDLE 32 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	4	EACH			
48	SCREW TAP WITH HANDLE 40 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	6	EACH			
49	SCREW TAP WITH HANDLE 50 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	3	EACH			
50	SCREW TAP WITH HANDLE 63 MM DIA FOR PPR PIPE SUPPLY AND FIXING.	1	EACH			
51	BIB COCK BRASS CP FANCY TYPE SCREWED DOWN BSP 15 MM DIA.	27	EACH			
52	STOP COCK BRASS CP SCREW DOWN HIGH PRESSURE FANCY TYPE 15MM DIA. BUT CONCEALED TYPE.	54	EACH			
53	STOP COCK BRASS CP SCREW DOWN HIGH PRESSURE FANCY TYPE 15MM DIA. BUT TEE STOP COCK.	114	EACH			
54	FLOAT VALVES BRASS (CORYDON) OR OTHER APPROVED PATTERN WITH PLASTIC BALL SCREWED FOR IRON (BRASS FERRULE) WITH COPPER BALL 40MM DIA.	4	EACH			

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SUB-HEAD	**PUBLIC-HEALTH ENGINEERING**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
55	FLOAT VALVES BRASS (CORYDON) OR OTHER APPROVED PATTERN WITH PLASTIC BALL SCREWED FOR IRON (BRASS FERRULE) WITH COPPER BALL 50MM DIA.	1	EACH			
56	GLOBE VALVES GUNMETAL SCREWED BOTH ENDS COMPLETE WITH STEEL HANDLE CLASS-150 40 MM DIA SUPPLY AND FIXING.	10	EACH			
57	GLOBE VALVES GUNMETAL SCREWED BOTH ENDS COMPLETE WITH STEEL HANDLE CLASS-150 50 MM DIA SUPPLY AND FIXING.	10	EACH			
58	GLOBE VALVES GUNMETAL FLANGED AND DRILLED TO BS TABLE 18-1-10 COMPLETE WITH STEEL HANDLE CLASS-150 80MM DIA SUPPLY AND FIXING.	12	EACH			
59	SLUICE VALVE ACCORDING TO BSS-3464 CLASS 150 (TABLE 18-1-6) FLANGED AND DRILLED TO BS TABLE 18-1-10 COMPLETE WITH RUBBER PACKING 100 MM DIA SUPPLY AND FIXING.	1	EACH			
60	SLUICE VALVE ACCORDING TO BSS-5150/5163 PN-16 (TABLE 18-1-8) FLANGED AND DRILLED TO BS TABLE 18-1-10 COMPLETE WITH RUBBER PACKING 150 MM DIA SUPPLY AND FIXING.	18	EACH			
61	SUPPLY AND FIXING OF NON RETURN VALVE OR REFLUX VALVE SCREWED 15 MM DIA.	2	EACH			
62	SUPPLY AND FIXING OF NON RETURN VALVE OR REFLUX VALVE SCREWED 20 MM DIA.	4	EACH			
63	SUPPLY AND FIXING OF NON RETURN VALVE OR REFLUX VALVE SCREWED 150 MM DIA	2	EACH			
64	SOCKET GI 150 MM DIA SUPPLY AND FIXING.	12	EACH			
65	BEND GI 45 DEG / 90 DEG 150 MM DIA SUPPLY AND FIXING.	8	EACH			
66	SUPPLY AND FIX GUARD BARS GRILLS RAILING LADDERS BRACKETS HOOKS HOLD FASTS AND FRAMES ETC CUT TO DEAD LENGTH REDUCED TO SIZE SHAPE FIGURE ETC INCLUDING PUNCHING / DRILLING HOLES IF NECESSARY AND FIXING ASSEMBLING BY WELDING OR WITH THE USE OF BOLTS NUTS RIVETS WASHERS ETC AND ERECTION/FIXING IN POSITION INCLUDING MAKING GOOD THE DISTURBED SURFACES.	41	KG			

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SUB-HEAD	**PUBLIC-HEALTH ENGINEERING**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
67	SUPPLY AND FIX XPM EXPENDED METAL 25MM X 25MM MASH 18 GAGUE BRC FABRIC WELD MESH MAXWELD ETC IN REINFORCEMENT OR IN OTHER POSITIONS LIKE DOORS PARTITION AND LATHING FOR PLASTER TO SHAPE SIZE AS REQUIRED INCLUDING BINDING WITH 14 SWG WIRE NAILS STAPLES ETC AND PLACING IN POSITION MEASURED NET.	3	SQM			
68	MANHOLES COMPLETE RECTANGULAR OR CIRCULAR AS DESCRIBED EXCEEDING 600 MM DEEP BUT NOT EXCEEDING 1800 MM DEEP WITH IRON STEPS (IN ANGLES 380 MM CENTRES) 230MM THICK BRICK WALLS (EXCEPT MANHOLE COVER).	269	CUM			
69	PROVIDING AND LAYING RCC TYPE B MANHOLE COVER (PRECAST COMPLETE WITH ANGLE IRON FRAME EMBEDDED IN CONCRETE ALL AS PER INFORMATION SHEET NO. SVCS-341 DATED 10-11-99.	141	NO			
70	EXCAVATE DISPOSE SPOIL SUPPLY SURFACE GULLIES (230X230X100 MM) WITH 100 MM PCC SURROUND AND CI GRATING COMPLETE.	6	EACH			
71	DEMOLITION OF PLAIN CEMENT CONCRETE.	23.99	CUM			
72	SUPPLY AND FIX WALL SHOWER SET SINGLE LEVER CP (PREMIUM) CONSISTING OF A WALL SHOWER, DOUBLE BIB COCK, TEE STOP COCK, BASIN MIXER AND TOILET SHOWER COMPLETE ALL AS SPECIFIED	8	EACH			
73	SUPPLY AND FIXING BASIN MIXER SINGLE LEVER CP, 15MM DIA INCLUDING PIPE CONNECTION COMPLETE AS SPECIFIED.	8	EACH			
74	SUPPLY AND FIXING SINK MIXER CP SINGLE LEVER HIGH NECK FANCY, 15 MM DIA, INCLUDING PIPE CONNECTION COMPLETE ALL AS SPECIFIED	8	EACH			
75	SUPPLY AND FIXING OF WHITE GLAZED EARTHENWARE ASIATIC-PATTERN WATER CLOSET (WC) NOT LESS THAN 550 MM LONG COMPLETE WITH FLUSHING CISTERN FLUSH PIPE AND CONNECTIONS COMPLETE AS SPECIFIED.	6	NO			
76	SUPPLY AND FIXING OF GLAZED-WARE WASH BASIN/VANITY BOWL WITH SINGLE FAUCET HOLE INCLUDING BOTTLE TRAP WASTE COUPLING CP BASIN MIXER AND ALL CONNECTIONS COMPLETE AS SPECIFIED.	6	NO			

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SUB-HEAD	**PUBLIC-HEALTH ENGINEERING**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
77	SUPPLY AND FIXING OF 5 MM THICK SILVERED GLASS MIRROR (ANY SHAPE: RECTANGULAR CIRCULAR OR OVAL) WITH GROUND AND POLISHED EDGES FIXED TO WALL WITH SCREWS AND PLUGS COMPLETE AS SPECIFIED.	6	SQM			
78	SUPPLY AND FIXING OF PLASTIC SHELF (ANY SIZE AND SHAPE) WITH SCREWS AND WALL PLUGS COMPLETE AS SPECIFIED.	6	EACH			
79	SUPPLY AND FIXING OF CHROME-PLATED (CP) SINGLE-ROD TOWEL RAIL ANY PATTERN AND SIZE WITH SCREWS AND WALL PLUGS COMPLETE AS SPECIFIED.	6	EACH			
80	ELECTRIC GEYSER 45 LIT CAPACITY COMPLETE WITH THERMOSTAT SAFETY VALVE SUPPLY AND FIXING.	2	EACH			
81	ELECTRIC WATER COOLER SP 220/240V COOLING CAPACITY 60 LIT/HR COMPLETE SUPPLY AND FIXING.	6	EACH			
82	HYPO-CHLORINATOR SOLENOID TYPE HAVING LIQUID CHLORINE FEEDING CAPACITY 20 GPD AT 150 PSI FITTED WITH FLOW RATE CONTROL KNOB MANUALLY ADJUSTABLE 0-100% OPERATED AT 220/240V 50 HZ DIAPHRAGM TYPE OF NON-CORROSIVE MATERIAL WITH STANDARD SUCTION/DISCHARGE TUBING INJECTOR PRESSURE AUTO RELIEF VALVE ANTI-SIPHON VALVE SOLUTION STORAGE TANK OF 50 GAL CAPACITY PE/PVC WITH STAND DULY PAINTED AS SPECIFIED SUPPLY AND FIXING.	2	EACH			
83	PUMPING SET SUBMERSIBLE WITH AC ELECTRIC MOTOR DRIVEN 400 V 3 PHASE 50 CYCLES COMPLETE WITH PUMP MOTOR CABLE COLUMN PIPES MOTOR CONTROL UNIT PUMP CAPACITY 0.5 CUSEC UPTO 97 M HEAD PUMP SETTING 60 M WITH 82-91 HP MOTOR 2900 RPM MOTOR EFFICIENCY IE2 INSULATION CLASS F ENCLOSURE CHARACTERISTICS IP-68 SUPPLY AND FIXING.	2	EACH			
					TOTAL	

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PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**		
LOCATION	**DALBANDIN**	PROVINCE	**BALOCHISTAN**
SUB-HEAD	**SECURITY INFRASTRUCTURE**		

	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (FIG)	RATE (WORDS)	AMOUNT
1	CLEARING AND GRUBBING THE SITE INCLUDING REMOVAL OF GRASS, SHRUBS, BRUSHWOOD, UNDERGROWTH, ROOTS, AND SMALL TREES NOT EXCEEDING 225 MM GIRTH, DISPOSING OF CLEARED MATERIAL OFF-SITE, COMPLETE AS SPECIFIED.	92	SQM			
2	EXCAVATION IN ORDINARY SOIL UP TO 1.5 M DEPTH, IN FOUNDATION AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA, COMPLETE AS SPECIFIED.	11324	CUM			
3	EXCAVATION IN HARD SOIL UP TO 1.5 M DEPTH, IN FOUNDATION AND PIPE TRENCHES UP TO 1.5 M WIDE, IN SHAFTS, WELLS AND INDEPENDENT HOLES UP TO 30 SQM EACH, THROWING EARTH CLEAR OF EDGES OF EXCAVATION WITHIN 10 M; TIMBERING TO BE PAID EXTRA, COMPLETE AS SPECIFIED.	903	CUM			
4	EXCAVATION OVER AREAS IN ORDINARY/HARD SOIL FROM 1.5 M TO 3 M DEPTH, IN FOUNDATION/EXCAVATIONS, THROWING EARTH CLEAR WITHIN 50 M; FOR DEEP EXCAVATION OF SEMI-UNDERGROUND UAV BUNKER STRUCTURES.	400	CUM			
5	EARTH FILLING IN ORDINARY OR HARD SOIL, IN FOUNDATION, PIPE TRENCHES, SHAFTS, WELLS, INDEPENDENT HOLES, UNDER FLOORS OR AROUND PLINTH ETC., 1.5 M BELOW OR ABOVE GROUND LEVEL, WITH SPOIL OBTAINED FROM EXCAVATION IN TRENCHES/OVER AREAS WITHIN 50 M, INCLUDING WATERING AND COMPACTION IN 150 MM LAYERS AND DRESSING TO REQUIRED PROFILE AND SHAPE.	468	CUM			
6	MAKING EMBANKMENT WITH SPECIFIED/APPROVED SOIL OBTAINED FROM BORROW EXCAVATION, INCLUDING LOADING WITHIN 5 KM, COMPACTION IN 150 MM LAYERS UP TO 95% MODIFIED AASHTO DENSITY, AND DRESSING TO REQUIRED PROFILE AND SHAPE.	200	CUM			

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SUB-HEAD	**SECURITY INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
7	CUT OR FILL IN GRANULAR SOIL NOT EXCEEDING 150 MM, COMPACTING THE FORMATION SURFACE BY COMPACTION EQUIPMENT AND ROLLER UP TO 100% MODIFIED AASHTO DENSITY, INCLUDING FILLING DEPRESSIONS WITH HARD SOIL.	92	SQM			
8	LOADING OF EXCAVATED SOIL, ROCK, DEMOLISHED BRICK BATS, BRICKS, SAND AND BITUMEN ETC. BY ANY MEANS UP TO 1000 M, UNLOADING AND STACKING OR SPREADING, PLUS CARRIAGE FOR EACH SUBSEQUENT 5 KM OR PART THEREOF.	130	CUM			
9	MAKING EMBANKMENT WITH SPECIFIED/APPROVED SOIL OBTAINED FROM BORROW EXCAVATION FOR EARTH COVERING OVER UAV BUNKER ROOFS FOR CAMOUFLAGE AND THERMAL INSULATION, INCLUDING LOADING, PLACING IN LAYERS, AND COMPACTION, COMPLETE AS SPECIFIED.	250	CUM			
10	GRANULAR BACKFILLING USING APPROVED GRANULAR SUB-BASE MATERIAL, LAID AND COMPACTED IN LAYERS TO 100% MODIFIED AASHTO DENSITY, COMPLETE AS SPECIFIED.	534	CUM			
11	PROVIDING SAND CUSHION IN LAYERS AS SPECIFIED, UNDER CONCRETE SLABS, HARD STANDINGS AND RUNWAYS ETC., COMPLETE.	250	CUM			
12	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:4:8) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, COMPLETE.	721	CUM			
13	PROVIDING AND LAYING LEAN CONCRETE (PCC 1:3:6) USING CRUSHED OR BROKEN STONE GRADED AS SPECIFIED, COMPLETE.	104	CUM			
14	PROVIDING AND LAYING PCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ALL STRUCTURAL/NON-STRUCTURAL ELEMENTS (E.G., STEPS), INCLUDING FORMWORK AND FAIR FACES TO EXPOSED SURFACES.	125	CUM			
15	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN DIFFERENT STRUCTURAL ELEMENTS (FOUNDATION ETC.) INCLUDING FORMWORK, COMPLETE; REINFORCEMENT MEASURED AND PAID SEPARATELY.	2382	CUM			
16	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS ETC., INCLUDING FORMWORK; REINFORCEMENT MEASURED AND PAID SEPARATELY.	337	CUM			

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SUB-HEAD	**SECURITY INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
17	PROVIDING AND LAYING RCC WITH 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN COLUMNS, BEAMS, STAIRS, POSTS, STRUTS, PIERS, LINTELS AND THE LIKE, INCLUDING FORMWORK; REINFORCEMENT MEASURED AND PAID SEPARATELY.	1751	CUM			
18	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY; FOR UAV BUNKER ROOF SLAB WITH WATERPROOFING MEMBRANE.	90	CUM			
19	PROVIDING AND LAYING RCC WITH 4000 PSI COMPRESSIVE CYLINDRICAL STRENGTH IN ROOF SLABS, LANDINGS, WALLS, PLINTH BEAMS AND BANDS, INCLUDING FORMWORK; REINFORCEMENT PAID SEPARATELY; FOR UAV BUNKER ROOF SLAB WITH WATERPROOFING MEMBRANE.	55	CUM			
20	SUPPLY AND FIXING DEFORMED STEEL BARS GRADE-60 REINFORCEMENT, INCLUDING CUTTING, BENDING, BINDING WITH 16 SWG WIRE, AND PLACING IN POSITION AT ANY HEIGHT/LEVEL, COMPLETE AS SPECIFIED.	3,212,599	KG			
21	BURNT BRICK WORK IN WALLS OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:4, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE.	211	CUM			
22	BURNT BRICK WORK IN WALLS OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE.	128	CUM			
23	BURNT BRICK WORK IN WALLS OVER 115 MM THICK, LAID AND JOINTED IN CEMENT MORTAR 1:6, STRAIGHT OR TO CURVE WITH INNER RADIUS OF 6 M AND OVER, UP TO FIRST FLOOR ROOF LEVEL, COMPLETE.	141	CUM			
24	PROVIDING AND LAYING PCC SOLID BLOCKS FOR NON-LOAD-BEARING WALLS, INCLUDING SETTING AND JOINTING IN CEMENT MORTAR 1:6, UP TO GROUND FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	5215	CUM			

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SUB-HEAD	**SECURITY INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
25	PROVIDING AND LAYING PCC HOLLOW BLOCKS FOR NON-LOAD-BEARING WALLS, INCLUDING SETTING AND JOINTING IN CEMENT MORTAR 1:6, UP TO BASEMENT/GROUND FLOOR ROOF LEVEL, COMPLETE AS SPECIFIED.	6	CUM			
26	PROVIDING AND LAYING 50 MM THICK PCC 1:2:4 USING 3 MM AGGREGATE, FINISHED SMOOTH WITH STEEL FLOAT, COVERED WITH TWO COATS OF HOT BITUMEN AT 0.75 KG PER SQM EACH, AND BLINDED WITH 0.012 CUM OF SAND PER SQM.	1398	SQM			
27	PROVIDING AND LAYING A BOND-BREAKING SLIP MEMBRANE BENEATH FLOOR SLABS, CONSISTING OF 0.102 MM THICK POLYETHYLENE FILM LAID OVER THE PREPARED SUB-BASE, COMPLETE AS SPECIFIED.	29	SQM			
28	PROVIDING AND APPLYING TWO COATS OF HOT-APPLIED BITUMEN (10/20 GRADE) ON ROOF SURFACE AT 0.75 KG PER SQM PER COAT, EACH COAT BLINDED WITH SAND AT 0.012 CUM PER SQM, INCLUDING CLEANING AND PREPARATION OF THE SURFACE, COMPLETE.	269	SQM			
29	TERMITE PROOFING OF NEW BUILDINGS/FOUNDATIONS WITH APPROVED CHEMICALS (EXCEPT JOINERY), APPLIED TO BEDS AND SIDES OF EXCAVATED TRENCHES, BACKFILLS, FILLED-UP EARTH, AND SURROUNDING AREAS WITHIN 5 M OF THE BUILDING, COMPLETE WITH 5-YEAR WARRANTY.	51	SQM			
30	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:4 MIX) ON INTERNAL WALL SURFACES (BASEMENT, GROUND, FIRST AND SECOND FLOORS), FINISHED SMOOTH, COMPLETE AS SPECIFIED.	1061	SQM			
31	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:6 MIX) ON WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	110	SQM			
32	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:3 MIX) ON WALL SURFACES (BASEMENT, GROUND, FIRST AND SECOND FLOORS), FINISHED SMOOTH, COMPLETE AS SPECIFIED.	3854	SQM			
33	PROVIDING AND LAYING 13 MM THICK TERRAZZO DADO/SKIRTING (MARBLE CHIPS MIXED WITH ORDINARY CEMENT IN 1:2 RATIO) ON A 1:3 CEMENT PLASTER BASE, INCLUDING CUTTING AND RUBBING, COMPLETE.	16	SQM			

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SUB-HEAD	**SECURITY INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
34	PROVIDING AND LAYING 80 MM THICK HYDRAULICALLY-COMPRESSED PCC PAVING STONES IN NATURAL COLOUR, IN ANY PATTERN OR SHAPE, LAID AND JOINTED IN SAND ON A 50 MM THICK SAND BEDDING COURSE, FOR FLOORS, LOADING DECKS AND HEAVY-DUTY AREAS, COMPLETE AS SPECIFIED.	75139	SQM			
35	PROVIDING AND LAYING 80 MM THICK HYDRAULICALLY-COMPRESSED PCC PAVING STONES IN ANY COLOUR OTHER THAN NATURAL, IN ANY PATTERN OR SHAPE, LAID AND JOINTED IN SAND ON A 50 MM THICK SAND BEDDING COURSE, COMPLETE AS SPECIFIED.	322	SQM			
36	PROVIDING AND LAYING 20 MM THICK TERRAZZO FLOOR USING MARBLE CHIPS (1:2) WITH ORDINARY CEMENT, INCLUDING CUTTING, RUBBING, CLEANING AND CHEMICAL POLISHING, COMPLETE AS SPECIFIED.	11	SQM			
37	SUPPLY AND FIXING 8-10 MM THICK AND 40 MM WIDE MARBLE PATTY AS DIVIDING STRIPS IN FLOORS, COMPLETE AS SPECIFIED.	12	MTR			
38	PROVIDING AND LAYING PCC 1:4:8 UNDER FLOOR USING CRUSHED OR BROKEN STONES, COMPLETE AS SPECIFIED.	64	CUM			
39	PROVIDING AND LAYING PCC 1:2:4 IN FLOOR SLABS, SURFACE FINISHED SMOOTH WITH NEAT CEMENT AND STEEL TROWEL, USING CRUSHED OR BROKEN STONE, FOR BASEMENT/GROUND FLOOR, COMPLETE AS SPECIFIED.	2	CUM			
40	PROVIDING AND LAYING 50 MM THICK FLOOR TOPPING WITH PCC OF 3000 PSI COMPRESSIVE CYLINDRICAL STRENGTH, COMPLETE AS SPECIFIED.	389	SQM			
41	PROVIDING AND LAYING PAVEMENT QUALITY CONCRETE (PQC) OF 600 PSI FLEXURAL STRENGTH FOR RUNWAY, TAXIWAY LINKS, LEAD-INS AND TARMAC, OF ANY THICKNESS, USING AN APPROVED CONCRETE MIX DESIGN, LAID MANUALLY, COMPLETE AS SPECIFIED.	73	CUM			
42	PROVIDING AND LAYING 75 MM THICK PCC 1:2:4 PLINTH PROTECTION USING CRUSHED STONES, SURFACE FINISHED AND SMOOTHED WITH CEMENT AND STEEL TROWEL, INCLUDING FORMWORK, COMPLETE AS SPECIFIED.	79	SQM			

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SUB-HEAD	**SECURITY INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
43	PROVIDING AND LAYING PCC 1:3:6 IN FLOOR SLABS, SURFACE FINISHED SMOOTH WITH CEMENT AND STEEL TROWEL USING CRUSHED OR BROKEN STONES, FOR BASEMENT/GROUND FLOOR, COMPLETE AS SPECIFIED.	4	CUM			
44	PROVIDING AND FIXING 22 BG CORRUGATED GALVANIZED IRON (CGI) ROOFING SHEETS ON THE VEHICLE SHED ROOF, FIXED TO TIMBER/STEEL PURLINS WITH ONE-AND-A-HALF CORRUGATION SIDE LAPS AND 150 MM END LAPS, USING GALVANIZED SCREWS, FIBRE WASHERS, AND CURVED/LIMPET WASHERS AT CENTRES NOT EXCEEDING 380 MM, COMPLETE AS SPECIFIED.	558	SQM			
45	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF A MOTORIZED SLIDING/OPENING MECHANISM WITH REMOTE CONTROL FOR THE HEAVY-DUTY STEEL GATE, INCLUDING MOTOR, DRIVE, CONTROLS, SAFETY SENSORS, AND ALL ACCESSORIES, COMPLETE AS SPECIFIED.	1	JOB			
46	SUPPLY OF HIGH-STRENGTH WOVEN POLYPROPYLENE HESCO/DEFENCE BARRIER BAGS, 4 FT X 4 FT X 8 FT (L X W X H), WITH UV-STABILIZED COATING AND INTEGRAL FILLING SPOUTS, COMPLETE AS SPECIFIED.	15000	NOS			
47	PROVIDING AND PLACING APPROVED IMPORTED SAND/EARTH FILLING MATERIAL INTO HESCO BARRIER BAGS, INCLUDING LOADING, TRANSPORTATION TO SITE, UNLOADING AND FILLING, COMPLETE AS SPECIFIED.	1258.5	CUM			
48	PROVIDING AND FIXING TWO STRANDS OF GALVANIZED 12 SWG BARBED WIRE (4-POINT BARBS AT 75 MM CENTRES) ON ANGLED STEEL BRACKETS ALONG THE TOP OF THE HESCO WALL, FIXED WITH GI STAPLES AND TENSIONED, COMPLETE AS SPECIFIED.	3900	MTR			
49	SUPPLY AND FIXING OF GUARD BARS, GRILLS, RAILINGS, LADDERS, BRACKETS, HOOKS, HOLDFASTS AND FRAMES ETC., CUT TO DEAD LENGTH, REDUCED TO SIZE AND SHAPE, PUNCHED/DRILLED AS NECESSARY, ASSEMBLED BY WELDING OR WITH BOLTS/NUTS/RIVETS/WASHERS, AND ERECTED/FIXED IN POSITION, INCLUDING MAKING GOOD DISTURBED SURFACES, COMPLETE AS SPECIFIED.	33828	KG			

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SUB-HEAD	**SECURITY INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
50	SUPPLY AND FIXING OF ROUND, SQUARE OR FLAT STEEL BARS INCLUDING CUTTING, BENDING, BINDING AND PLACING REINFORCEMENT IN POSITION, COMPLETE AS SPECIFIED.	714	KG			
51	SUPPLY AND FIXING OF BOLTS EXCEEDING 10 MM BUT NOT EXCEEDING 18 MM DIAMETER, LENGTH EXCEEDING 75 MM AND NOT EXCEEDING 150 MM, WITH HEXAGON/SQUARE/CUP/CHEESE HEADS, SCREWED ONE OR BOTH ENDS, EACH WITH ONE WASHER AND ONE HEXAGON OR SQUARE NUT, COMPLETE AS SPECIFIED.	2762	EACH			
52	SUPPLY AND FIXING OF 2 INCH X 2 INCH SQUARE MS HOLLOW PIPE SECTION, 16 GAUGE, INCLUDING CUTTING, WELDING, JOINTING AND ERECTION IN POSITION, COMPLETE AS SPECIFIED.	396	MTR			
53	SUPPLY AND FIXING OF GALVANIZED IRON WIRE NETTING, 50 MM X 50 MM MESH, 10 SWG, FIXED WITH TINNED TACKS AND GI STAPLES, COMPLETE AS SPECIFIED.	2928	SQM			
54	PROVIDING AND FIXING TWO STRANDS OF GALVANIZED 12 SWG BARBED WIRE (4-POINT BARBS AT 75 MM CENTRES) ON POSTS/BRACKETS, FIXED WITH GI STAPLES/NAILS, INCLUDING CONNECTING UP ENDS AND TENSIONING, MEASURED PER LINEAR METRE, COMPLETE AS SPECIFIED.	57009	MTR			
55	SUPPLY AND FIXING OF CONCERTINA/RAZOR WIRE, SINGLE COIL, 10/12 GAUGE GALVANIZED WIRE, LOOP DIAMETER 0.452 TO 0.990 M, COMPLETE WITH ALL ACCESSORIES, ALL AS SPECIFIED.	8701	MTR			
56	SUPPLY AND FIXING OF MS DT-TYPE CLAMP BRACKET, FABRICATED AS PER APPROVED DRAWING, INCLUDING BOLTS, NUTS AND WASHERS, COMPLETE AS SPECIFIED.	789.23	EACH			
57	SUPPLY AND FIXING OF UPVC DOOR, 60 MM THICK SHUTTER WITH 20 MM THICK GROOVE PANEL FILLED INSTEAD OF GLASS, WITH FRAME, EXCEEDING 1.9 SQM EACH, IN WHITE COLOUR, INCLUDING ALL NECESSARY FITTINGS AND MONGERY, COMPLETE AS SPECIFIED.	79	SQM			

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SUB-HEAD	**SECURITY INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
58	SUPPLY AND FIXING OF BOX-PIPE TYPE OPENABLE/FIXED SIDE-HUNG STEEL WINDOW (OR CSW), FABRICATED FROM 16 GAUGE MS FRAME SECTION 50 MM X 25 MM AND Z-SHAPED PANEL 38 X 31 X 38 MM WITH 10 X 10 MM SQUARE GOLA, NOT EXCEEDING 1.48 SQM EACH, INCLUDING ALL FITTINGS, MONGERY, HOLDFASTS, TWO COATS OF SYNTHETIC ENAMEL PAINT OVER ONE COAT OF PRIMER, AND 5 MM THICK PLAIN SHEET GLASS, COMPLETE AS SPECIFIED.	36	SQM			
59	SUPPLY AND FIXING OF HEAVY-DUTY REINFORCED STEEL GATE FOR UAV TAXIWAY ACCESS (30 FT WIDE &12 FT HIGH), APPROX. 20 KG/SQM, INCLUDING CUTTING, WELDING, ERECTION, HINGES, GUIDES, LOCKING MECHANISM, AND TWO COATS OF ENAMEL PAINT OVER PRIMER, COMPLETE AS SPECIFIED.	1	NOS			
60	SUPPLY AND FIXING OF STEEL DOOR AS PER APPROVED DRAWING, FABRICATED FROM MS SHEET/SECTIONS WITH NECESSARY STIFFENERS, HINGES, LOCKS, HANDLES, AND TWO COATS OF ENAMEL PAINT OVER PRIMER, APPROX. 25 KG/SQM, COMPLETE AS SPECIFIED.	3	SQM			
61	SUPPLY AND INSTALLATION OF BLAST-RESISTANT STEEL DOOR FOR UAV BUNKER, HEAVY-DUTY CONSTRUCTION WITH AIRTIGHT NEOPRENE GASKET SEALING, MULTI-POINT LOCKING SYSTEM, AND BLAST-RATED HINGES, COMPLETE WITH ALL HARDWARE AND FACTORY FINISH AS SPECIFIED.	2	NOS			
62	PROVIDING AND APPLYING 13 MM THICK CEMENT-SAND PLASTER (1:4 MIX) ON INTERNAL WALL SURFACES, FINISHED SMOOTH, COMPLETE AS SPECIFIED.	131	SQM			
63	APPLYING ONE COAT OF APPROVED WEATHER-RESISTANT EXTERIOR EMULSION PAINT ON NEW PLASTERED EXTERIOR WALL SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	613	SQM			
64	APPLYING SECOND AND SUBSEQUENT COATS OF APPROVED WEATHER-RESISTANT EXTERIOR EMULSION PAINT ON PREVIOUSLY PRIMED/COATED EXTERIOR WALL SURFACES, COMPLETE AS SPECIFIED.	613	SQM			

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SUB-HEAD	**SECURITY INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
65	APPLYING A THREE-COAT SYSTEM OF APPROVED WEATHER-RESISTANT EXTERIOR EMULSION PAINT (ONE PRIMER COAT PLUS TWO FINISH COATS) ON NEW PLASTERED EXTERIOR WALL SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	2678	SQM			
66	APPLYING ONE COAT OF LIME WHITEWASH (FAT LIME SLAKED AND STRAINED) ON NEW OR OLD WALL/CEILING SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	66	SQM			
67	APPLYING SECOND AND SUBSEQUENT COATS OF LIME WHITEWASH ON PREVIOUSLY WHITEWASHED WALL/CEILING SURFACES, COMPLETE AS SPECIFIED.	66	SQM			
68	APPLYING A THREE-COAT LIME WHITEWASH FINISH ON NEW OR OLD WALL/CEILING SURFACES, INCLUDING SURFACE PREPARATION AND CLEANING, COMPLETE AS SPECIFIED.	59398	SQM			
69	APPLYING A THREE-COAT OIL-BOUND DISTEMPER (OR POLYVINYL DISTEMPER) FINISH ON NEW OR OLD PLASTERED WALL SURFACES, INCLUDING SURFACE PREPARATION, COMPLETE AS SPECIFIED.	1483	SQM			
70	APPLYING TWO COATS OF SYNTHETIC ENAMEL PAINT ON NEW OR OLD STEEL DOORS, WINDOWS AND CSWS, INCLUDING SURFACE PREPARATION (CLEANING, SANDING, PRIMING WHERE REQUIRED), COMPLETE AS SPECIFIED.	72	SQM			
71	APPLYING THREE COATS OF SYNTHETIC ENAMEL PAINT ON MS GRILLS/RAILINGS, INCLUDING SURFACE PREPARATION (REMOVAL OF RUST, SCALE AND OLD PAINT), COMPLETE AS SPECIFIED.	75	SQM			
					TOTAL	

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PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**		
LOCATION	**DALBANDIN**	PROVINCE	**BALOCHISTAN**
SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**		

	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (FIG)	RATE (WORDS)	AMOUNT
1	EXCAVATION OF CABLE TRENCH UP TO 3 FEET DEEP AND 1.5 FEET WIDE FOR LAYING OF AIRFIELD LIGHTING PRIMARY CABLE OF ANY DESCRIPTION 6MM2 ON DESIRED LOCATION INCLUDING BACKFILLING IN LAYERS WITH COVERING LAYER OF SAND AROUND THE CABLE WARNING TAPE AND TILES/BRICKS COMPACTION AND MAKING GOOD AS PER PAK PWD SPECIFICATIONS.	2000	MTR			
2	EXCAVATION OF CABLE TRENCH UP TO 3 FEET DEEP AND 3 FEET WIDE FOR LAYING OF AIRFIELD LIGHTING PRIMARY CABLE OF ANY DESCRIPTION 6MM2 ON DESIRED LOCATION INCLUDING BACKFILLING IN LAYERS WITH COVERING LAYER OF SAND AROUND THE CABLE WARNING TAPE AND TILES/BRICKS COMPACTION AND MAKING GOOD AS PER PAK PWD SPECIFICATIONS.	6500	MTR			
3	PROVIDING AND LAYING OF 4 CORE 25MM2 PVC INSULATED AND PVC SHEATHED 1900/3300 VOLTS GRADE CIRCULAR STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE IN A PROPER CABLE TRENCH BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING TILES AS PER PAK PWD SPECIFICATION.	1500	MTR			
4	PROVIDING AND LAYING OF 4 CORE 50MM2 PVC INSULATED AND PVC SHEATHED 1900/3300 VOLTS GRADE CIRCULAR STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE IN A PROPER CABLE TRENCH BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING TILES AS PER PAK PWD SPECIFICATION.	4000	MTR			
5	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 10MM2.	200	MTR			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
6	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 16MM2.	11180	MTR			
7	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 25MM2.	210	MTR			
8	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 35MM2.	150	MTR			
9	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 50MM2.	110	MTR			
10	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 70MM2.	110	MTR			
11	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 95MM2.	100	MTR			
12	PROVIDING AND LAYING 4 CORE PVC INSULATED AND PVC SHEATHED 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR ARMORED UNDERGROUND LT CABLE BURIED IN THE GROUND DULY COVERED WITH SAND AND WARNING CABLE TILES AS PER PAK PWD SPECIFICATION - 120MM2.	100	MTR			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
13	PROVIDING AND LAYING HT 11 KV 3 CORE STRANDED COPPER CONDUCTOR XLPE INSULATED CU TAPE SCREENED PVC BEDDED AND PVC SHEATHED ARMORED CABLE LAID IN EXISTING ALL KIND OF PIPES CABLE DUCT CHANNELS ETC AS PER PAK PWD SPECIFICATION - 50MM2.	150	MTR			
14	PROVIDING AND LAYING HT 11 KV 3 CORE STRANDED COPPER CONDUCTOR XLPE INSULATED CU TAPE SCREENED PVC BEDDED AND PVC SHEATHED ARMORED CABLE LAID IN EXISTING ALL KIND OF PIPES CABLE DUCT CHANNELS ETC AS PER PAK PWD SPECIFICATION - 95MM2.	150	MTR			
15	PROVIDING AND FIXING INDOOR/OUTDOOR 3 CORE 11KV XLPE HEAT SHRINK TERMINATION ENDS KIT COMPLETE IN ALL RESPECT AS REQUIRED - 50MM2 TO 95MM2.	6	JOBS			
16	PROVIDING INSTALLATION AND COMMISSIONING OF OUTDOOR WATER TIGHT TYPE 30KVA 2000/415VOLTS 50HZ TRANSFORMER INCLUDING MAKING CONNECTIONS AND TESTING ON LOAD COMPLETE.	5	NOS			
17	PROVIDING INSTALLATION AND COMMISSIONING OF OUTDOOR WATER TIGHT TYPE 200 KVA 415/2000 VOLTS 50HZ TRANSFORMER INCLUDING MAKING CONNECTIONS AND TESTING ON LOAD COMPLETE.	1	NOS			
18	PROVIDING INSTALLATION AND COMMISSIONING OF OUTDOOR WATER TIGHT TYPE 150 KVA 415/2000 VOLTS 50HZ TRANSFORMER INCLUDING MAKING CONNECTIONS AND TESTING ON LOAD COMPLETE.	1	NOS			
19	PROVIDING FIXING AND COMMISSIONING INDOOR/POLE MOUNTED STEPDOWN 11000/400 VOLTS THREE PHASE 50HZ TRANSFORMER AS PER ELECTRICITY CODE COMPLETE IN ALL RESPECT - 400 KVA.	1	NOS			
20	PROVIDING FIXING AND COMMISSIONING INDOOR/POLE MOUNTED STEPDOWN 11000/400 VOLTS THREE PHASE 50HZ TRANSFORMER AS PER ELECTRICITY CODE COMPLETE IN ALL RESPECT - 630 KVA.	2	NOS			
21	PROVIDING AND FIXING HT 11 KV INDOOR/OUTDOOR TYPE FUSE D LINK/CUT OFF FUSE ASSEMBLY SET OF THREE PIECES COMPLETE WITH FUSE FITTED ON ANGLE IRON BASE FRAME AS REQUIRED.	3	JOBS			
22	PROVIDING AND ERECTING LT MS TUBULAR POLE 30 FEET LONG IN THE GROUND 5FT DEEP AND MAKING PCC FOUNDATION 1:3:6 RATIO 2FT HEIGHT FROM GROUND LEVEL DULY PLASTERED INCLUDING ACCESSORIES AND INTERCONNECTION.	370	JOBS			
23	SUPPLY AND INSTALLATION OF 2 FEET 2MM THICK GI SINGLE ARM MOUNTING BRACKET.	10	NOS			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
24	SUPPLY AND INSTALLATION OF 2 FEET 2MM THICK GI DOUBLE ARM MOUNTING BRACKET.	350	NOS			
25	SUPPLY AND INSTALLATION OF 2 FEET 2MM THICK GI FOUR ARM MOUNTING BRACKET.	10	NOS			
26	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF FLOOD LIGHTS IP66 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 90-110 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 20000-25000 HOURS LIFE CYCLE INCLUDING CONNECTION - 90-100 WATTS.	100	NOS			
27	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF FLOOD LIGHTS IP66 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 90-110 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 20000-25000 HOURS LIFE CYCLE INCLUDING CONNECTION - 140-160 WATTS.	550	NOS			
28	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF STREET/ROAD LIGHTS IP65 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 90-110 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 20000-25000 HOURS LIFE CYCLE INCLUDING CONNECTION - 90-100 WATTS.	50	NOS			
29	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF STREET/ROAD LIGHTS IP65 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 90-110 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 20000-25000 HOURS LIFE CYCLE INCLUDING CONNECTION - 140-160 WATTS.	140	NOS			
30	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF FLOODLIGHTS IP66 INCLUDING DRIVER HAVING NEUTRAL WHITE/COOL WHITE COLOUR 110-120 LM/WATTS EFFICIENCY 0.9 OR ABOVE POWER FACTOR 40000-50000 HOURS LIFE CYCLE INCLUDING CONNECTION - 300 WATTS.	24	NOS			
31	PROVIDING FABRICATION AND INSTALLATION OF HOT DIPPED GALVANIZED POLYGONAL MAST UP TO 25 METERS HEIGHT INCLUDING MID PLATFORM HEAD PLATFORM CLIMBING LADDERS SAFETY LOOPS BASE PLATE ANCHOR BOLTS AND STIFFENERS AS PER DRAWING AND SPECIFICATION.	2	JOBS			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
32	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED UNIDIRECTIONAL INSET APPROACH LIGHT COMPLETE WITH PRISM GASKET CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	5	JOBS			
33	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED UNIDIRECTIONAL ELEVATED APPROACH LIGHT COMPLETE WITH FRANGIBLE COUPLING POLE/BASE ASSEMBLY CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	19	JOBS			
34	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED UNIDIRECTIONAL INSET THRESHOLD LIGHT COMPLETE WITH PRISM GASKET CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	12	JOBS			
35	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED BIDIRECTIONAL INSET THRESHOLD/RUNWAY END LIGHT COMPLETE WITH GREEN/RED FILTERS PRISM GASKET CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	12	JOBS			
36	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED BIDIRECTIONAL INSET RUNWAY EDGE LIGHT COMPLETE WITH PRISM GASKET CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	6	JOBS			
37	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED BI-DIRECTIONAL ELEVATED RUNWAY EDGE LIGHT COMPLETE WITH FRANGIBLE COUPLING OPTICAL SYSTEM CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	134	JOBS			
38	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED OMNIDIRECTIONAL ELEVATED TAXIWAY EDGE LIGHT COMPLETE WITH FRANGIBLE COUPLING OPTICAL SYSTEM CABLE TERMINATION CALIBRATION AND ALL ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	50	JOBS			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
39	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 45 W ISOLATING TRANSFORMER RATED 6.6A/6.6A 50/60 HZ COMPLETE WITH PRIMARY AND SECONDARY CONNECTIONS EARTHING MOUNTING AND ALL ACCESSORIES SUITABLE FOR SERIES AIRFIELD LIGHTING CIRCUITS.	62	JOBS			
40	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 65 W ISOLATING TRANSFORMER RATED 6.6A/6.6A 50/60 HZ COMPLETE WITH PRIMARY AND SECONDARY CONNECTIONS EARTHING MOUNTING AND ALL ACCESSORIES SUITABLE FOR SERIES AIRFIELD LIGHTING CIRCUITS.	188	JOBS			
41	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF ISOLATION TRANSFORMER RATED 200 W PRIMARY CURRENT 6.6 A SECONDARY CURRENT 6.6 A FREQUENCY 50/60 HZ COMPLETE WITH AL CORE CONSTRUCTION AND ALL NECESSARY ACCESSORIES SUITABLE FOR OPERATION WITH ICAO COMPLIANT AIRFIELD LIGHTING SYSTEMS.	8	JOBS			
42	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF LED PRECISION APPROACH PATH INDICATOR PAPI LIGHT 04 COMPLETE UNIT COMPLETE WITH OPTICAL ASSEMBLY FRANGIBLE MOUNTING AIMING AND CALIBRATION MECHANISM AND ALL NECESSARY ACCESSORIES CONFORMING TO ICAO ANNEX 14 AND FAA STANDARDS.	1	JOB			
43	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 8 INCH ALUMINUM SHALLOW BASE FOR INSET AIRFIELD LIGHTING FIXTURES 135 MM HEIGHT WITH 100 MM CENTRE HOLE COMPLETE WITH O-RING GASKET MOUNTING SCREWS GROUNDING SCREW AND ALL NECESSARY ACCESSORIES.	11	JOBS			
44	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 12 INCH ALUMINUM SHALLOW BASE FOR INSET AIRFIELD LIGHTING FIXTURES 150 MM HEIGHT WITH 100 MM CENTRE HOLE COMPLETE WITH O-RING GASKET MOUNTING STUDS GROUNDING SCREW AND ALL NECESSARY ACCESSORIES.	24	JOBS			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
45	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 5 KVA CONSTANT CURRENT REGULATOR CCR AIR-COOLED MICROPROCESSOR-CONTROLLED MODULAR TYPE INCORPORATING FIVE BRIGHTNESS STEPS LOCAL AND REMOTE CONTROL FACILITIES AND ALL NECESSARY PROTECTIONS CONFORMING TO FAA AND ICAO STANDARDS.	4	JOBS			
46	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 7.5 KVA CONSTANT CURRENT REGULATOR CCR AIR-COOLED MICROPROCESSOR-CONTROLLED MODULAR TYPE INCORPORATING FIVE BRIGHTNESS STEPS LOCAL AND REMOTE CONTROL FACILITIES AND ALL NECESSARY PROTECTIONS CONFORMING TO FAA AND ICAO STANDARDS.	6	JOBS			
47	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF 15 KVA CONSTANT CURRENT REGULATOR CCR AIR-COOLED MICROPROCESSOR-CONTROLLED MODULAR TYPE INCORPORATING FIVE BRIGHTNESS STEPS LOCAL AND REMOTE CONTROL FACILITIES AND ALL NECESSARY PROTECTIONS CONFORMING TO FAA AND ICAO STANDARDS.	2	JOBS			
48	PROVIDING SUPPLYING LAYING TESTING AND COMMISSIONING OF 6 MM2 SINGLE-CORE AIRFIELD LIGHTING AFL PRIMARY CABLE 5 KV GRADE XLPE INSULATED STRANDED COPPER CONDUCTOR SCREENED AND PVC/PE SHEATHED SUITABLE FOR 6.6 A SERIES LIGHTING CIRCUITS CONFORMING TO ICAO AND FAA STANDARDS.	35000	MTR			
49	PROVIDING SUPPLYING LAYING TESTING AND COMMISSIONING OF 4 MM2 2-CORE AIRFIELD LIGHTING AFL SECONDARY CABLE COPPER CONDUCTOR WITH POLYCHLOROPRENE PCP INSULATION/SHEATH SUITABLE FOR CONNECTION BETWEEN ISOLATION TRANSFORMER AND AIRFIELD LIGHTING FIXTURES CONFORMING TO ICAO AND FAA STANDARDS.	2100	MTR			
50	SUPPLYING AND DRAWING OF 6MMSQ SINGLE CORE PVC INSULATED WIRE IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED.	6000	MTR			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
51	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF PRIMARY CONNECTOR KIT KD500 SUITABLE FOR 5 KV 6.6 A AIRFIELD LIGHTING AFL SERIES PRIMARY CABLE COMPRISING MOLDED PLUG AND RECEPTACLE ASSEMBLY WATERTIGHT INSULATED CONNECTORS AND ALL NECESSARY HARDWARE.	242	JOBS			
52	PROVIDING SUPPLYING AND INSTALLATION OF L-867 HOT-DIP GALVANIZED DEEP BASE ISOLATION TRANSFORMER HOUSING FABRICATED FROM HEAVY-DUTY GALVANIZED STEEL 12-INCH DIAMETER AND 18-INCH DEPTH COMPLETE WITH COVER PLATE MOUNTING STUDS UPVC CONDUIT EXCAVATION CONCRETE FOUNDATION EARTHING AND ALL ASSOCIATED ACCESSORIES CONFORMING TO FAA STANDARDS.	242	JOBS			
53	PROVIDING SUPPLYING INSTALLATION TESTING AND COMMISSIONING OF SECONDARY CONNECTOR KIT MALE AND FEMALE KD501 AND KD502 SUITABLE FOR AIRFIELD LIGHTING AFL SECONDARY CABLE CONNECTION BETWEEN THE ISOLATION TRANSFORMER AND LIGHTING FIXTURE COMPLETE WITH MOLDED WATERTIGHT CONNECTORS AND ALL NECESSARY HARDWARE CONFORMING TO FAA AND ICAO STANDARDS.	254	JOBS			
54	PROVIDING CORE CUTTING FIXING INSTALLATION TESTING AND COMMISSIONING OF 8-INCH INSET AIRFIELD LIGHTING SHALLOW BASE INCLUDING CORE DRILLING OF EXISTING PAVEMENT POSITIONING AND ALIGNMENT GROUTING WITH APPROVED NON-SHRINK EPOXY/CEMENTITIOUS GROUT REINSTATEMENT OF SURROUNDING PAVEMENT CONFORMING TO ICAO AND FAA STANDARDS.	31	JOBS			
55	PROVIDING CORE CUTTING FIXING INSTALLATION TESTING AND COMMISSIONING OF 12-INCH INSET AIRFIELD LIGHTING SHALLOW BASE INCLUDING CORE DRILLING OF EXISTING PAVEMENT POSITIONING AND ALIGNMENT GROUTING WITH APPROVED NON-SHRINK EPOXY/CEMENTITIOUS GROUT RESTORATION OF PAVEMENT CONFORMING TO ICAO AND FAA STANDARDS.	165	JOBS			
56	PROVIDING SLOT CUTTING 25 MM WIDE AND UP TO 100 MM DEEP IN EXISTING PAVEMENT INCLUDING CUTTING CLEANING LAYING OF AIRFIELD LIGHTING AFL CABLE INSTALLATION OF BACKER ROD FILLING WITH APPROVED NON-SHRINK GROUT/SEALANT SURFACE FINISHING RESTORATION OF PAVEMENT CONFORMING TO ICAO AND FAA STANDARDS.	200	MTR			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
57	PROVIDING SUPPLYING AND INSTALLATION OF AIRFIELD LIGHTING AFL CABLE ROUTE MARKERS MANUFACTURED FROM REINFORCED PRECAST CONCRETE COMPLETE WITH ENGRAVED AFL CABLE IDENTIFICATION EXCAVATION CONCRETE FOUNDATION ALIGNMENT FIXING BACKFILLING AND ALL NECESSARY HARDWARE INSTALLED AT REQUIRED INTERVALS CONFORMING TO ICAO AND FAA STANDARDS.	446	JOBS			
58	PROVIDING AND INSTALLATION OF RUNWAY/TAXIWAY GUIDANCE SIGN BOARD FACE SIZE 2100 MM X 600 MM X 210 MM LOCALLY FABRICATED 14 SWG ALUMINUM SHEET FRAME MADE WITH 1-1/4IN ALUMINUM ANGLE FRAME DULY POWDER COATED SINGLE FACED WITH 5 MM THICK ACRYLIC SHEET WITH 3M VINYL PASTING INTERNALLY ILLUMINATED BY LED TYPE LIGHTS TO BE RUN ON 6.6A CCR CIRCUIT.	2	JOBS			
59	PROVIDING AND INSTALLATION OF RUNWAY/TAXIWAY GUIDANCE SIGN BOARD FACE SIZE 1200 MM X 600 MM X 210 MM LOCALLY FABRICATED 14 SWG ALUMINUM SHEET FRAME MADE WITH 1-1/4IN ALUMINUM ANGLE FRAME DULY POWDER COATED SINGLE FACED WITH 5 MM THICK ACRYLIC SHEET WITH 3M VINYL PASTING INTERNALLY ILLUMINATED BY LED TYPE LIGHTS TO BE RUN ON 6.6A CCR CIRCUIT.	3	JOBS			
60	PROVIDING AND INSTALLATION OF RUNWAY/TAXIWAY GUIDANCE SIGN BOARD FACE SIZE 2700 MM X 800 MM X 210 MM LOCALLY FABRICATED 14 SWG ALUMINUM SHEET FRAME MADE WITH 1-1/4IN ALUMINUM ANGLE FRAME DULY POWDER COATED DOUBLE FACED WITH 5 MM THICK ACRYLIC SHEET WITH 3M VINYL PASTING INTERNALLY ILLUMINATED BY LED TYPE LIGHTS TO BE RUN ON 6.6A CCR CIRCUIT.	2	JOBS			
61	FABRICATING/MAKING 1.5FT X 1.5FT X 4FT RCC FOUNDATION PADS FOR INSTALLATION OF GUIDANCE SIGN BOARDS INCLUDING NECESSARY GROUND WORK COMPLETE AS PER SITE REQUIREMENT.	8	JOBS			
62	PROVIDING AND LAYING D CLASS 50MM UPVC CONDUIT 2INCH DIA WITH ALL SPECIALS FITTING INCLUDING MAKING GOOD THE DAMAGES AS PER ORIGINAL COMPLETE.	444	MTR			
63	PROVIDING AND INSTALLATION OF 3 METERS X 19 MM DIA COPPER EARTH ROD ELECTRODE BURIED UNDER GROUND ALONG WITH SUITABLE COPPER CLAMPS NUTS/BOLTS AND MAKING CONNECTIONS INCLUDING TESTING COMPLETE.	40	JOBS			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
64	PROVIDING AND LAYING OF 10MM2 STRANDED BARE COPPER CONDUCTOR FOR COUNTERPOISE IN THE EXISTING CABLE TRENCH ENSURING PROPER SPACING AS PER ICAO/FAA SPECIFICATIONS COMPLETE AS REQUIRED.	8000	MTR			
65	PROVIDING AND FIXING 4IN DIA UPVC PIPE D CLASS AND SPECIALS ETC OF APPROVED MAKE AND QUALITY WITH SPECIALS AND CLAMPS ETC.	4081	RFT			
66	EXCAVATION FOR FOUNDATION TRENCHES AND DRAINS IN STRATA OF CONGLOMERATIONS OF GRAVEL AND BOULDERS BY HAMMERING CHISELING AND JUMPER WORK INCLUDING STACKING OF SERVICEABLE AND UNSERVICEABLE MATERIALS SEPARATELY LEAD UP TO ONE CHAIN AND LIFT UP TO 5 FEET.	3855	100CFT			
67	PROVIDING AND LAYING 1:3:6 CEMENT CONCRETE SOLID BLOCK MASONRY MACHINE MADE MORE THAN 6 INCHES THICK USING GRADED SCREENED BAJRI 3/4 INCH AND DOWN GAUGE SET IN CEMENT MORTAR 1:5 IN FOUNDATION BASEMENT AND PLINTH INCLUDING SCAFFOLDING RAKING OUT JOINTS AND CURING COMPLETE.	132	100CFT			
68	1/4IN THICK CEMENT PLASTER 1:4 ON SOFFITS OF CEILING CANTILEVER SLABS SIDES AND SOFFITS OF BEAMS ETC IN FIRST FLOOR INCLUDING MAKING EDGES CORNERS AND CURING COMPLETE.	180	100SFT			
69	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF MONOCRYSTALLINE A GRADE TIER I HIGH EFFICIENCY IEC CERTIFIED SOLAR PANEL INCLUDING CABLING MAKING CONNECTIONS COMPLETE.	500000	WATTS			
70	PROVIDING AND FIXING OF GALVANIZED RUST FREE 14 GAUGE SOLID DESIGN FRAME FOR SOLAR PANEL COMPLETE.	800	NOS			
71	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF HYBRID ONGRID INVERTER INCLUDING NECESSARY CABLES MAKING CONNECTIONS WITH LOCKING ARRANGEMENTS COMPLETE - 50 KVA.	10	NOS			
72	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 10 AMP TO 20 AMP.	25	NOS			
73	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 25 AMP.	25	NOS			
74	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 40 AMP.	25	NOS			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
75	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 50 AMP.	25	NOS			
76	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 10 AMP TO 20 AMP.	25	NOS			
77	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 32 AMP.	25	NOS			
78	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 40 AMP TO 50 AMP.	25	NOS			
79	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF SINGLE POLE DC CIRCUIT BREAKER FIXED ON EXISTING BOARD INCLUDING INTERCONNECTIONS - 63 AMP.	25	NOS			
80	PROVIDING LAYING FIXING TESTING AND COMMISSIONING SINGLE-CORE 6 MM2 DC SOLAR CABLE RATED UP TO 1500V DC MANUFACTURED WITH TINNED COPPER CONDUCTOR DOUBLE INSULATED LSZH FLAME RETARDANT AND UV WEATHER RESISTANT CABLE LAID IN SURFACE OR CONCEALED PVC CONDUITS INCLUDING CABLE TIES LUGS MC4 CONNECTORS GLANDING CRIMPING TERMINATION COMPLETE.	4200	MTR			
81	SUPPLY AND FIXING 12IN X 4IN MS CABLE TRAY PERFORATED 18 SWG COMPLETE WITH COVER OF 20 SWG INCLUDING PAINTING AND SUPPORTING SYSTEM.	250	MTR			
82	SUPPLY AND FIXING OF 6IN X 4IN MS CABLE TRAY PERFORATED 18 SWG COMPLETE WITH COVER OF 20 SWG INCLUDING PAINTING AND SUPPORTING SYSTEM.	150	MTR			
83	PROVIDING INSTALLATION TESTING AND COMMISSIONING OF RECESSED SPOT LIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR 80 LM/WATT EFFICIENCY 0.9 OR ABOVE POWER FACTOR 15000-20000 HOURS LIFE CYCLE INCLUDING CONNECTION - 3 WATTS.	8	NOS			
84	WIRING FOR LIGHT POINT WITH 1.5 MM2 SINGLE CORE PVC INSULATED WIRE COPPER CONDUCTOR IN 20 MM DIA UPVC CONDUIT RECESSED IN THE WALL OR COLUMN ROOF ETC INCLUDING 1 MM2 SINGLE CORE PVC INSULATED WIRE AS ECC AS REQUIRED.	5	POINT			

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SUB-HEAD	**EXTERNAL ELECTRICAL INFRASTRUCTURE**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
85	PROVIDING AND FIXING 6/10 AMPS FLUSH TYPE SP PIANO SWITCH FITTED ON GIVEN SHEET OR ALL KIND OF BOARD INCLUDING CONNECTION AS REQUIRED.	5	EACH			
86	PROVIDING AND FIXING FLAME PROOF FITTING 20 MM ET TAPPED ENTRY CI BODY GREY PAINTED WITH HEAVY GLASS CEMENTED TO FIXED RING STRONG WIRE GUARD AND LAMP HOLDER WITH TERMINAL CHAMBER SUITABLE FOR 60/100 W LAMP.	5	EACH			
87	PROVIDING AND FIXING DISTRIBUTION BOARD STEEL SHEET FLAME PROOF OF REQUIRED SIZE WITH HINGED COVER HARD DRAWN COPPER BUS BARS MOUNTED ON INSULATED FRAMES COMPLETE WITH MAIN AND BRANCH CABLES SOCKETS AND TERMINALS ENAMEL PAINT INSIDE AND BLACK OUTSIDE 500 V 200 A 4 BARS 400 MM HEIGHT.	5	EACH			
88	PROVIDING AND FIXING 6 TO 32 AMPS SP MCCB FIXED ON EXISTING BOARD INCLUDING INTER-CONNECTION AS REQUIRED.	5	EACH			
89	PROVIDING AND FIXING 6 TO 63 AMPS DP MCCB FIXED ON EXISTING BOARD INCLUDING INTER-CONNECTION AS REQUIRED.	5	EACH			
90	PROVIDING AND FIXING EARTHING SET COMPLETE WITH 8 SWG COPPER CONDUCTOR SUPPLY AND FIXING.	2	EACH			
					TOTAL	

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

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PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**		
LOCATION	**DALBANDIN**	PROVINCE	**BALOCHISTAN**
SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**		

	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (FIG)	RATE (WORDS)	AMOUNT
1	WIRING FOR LIGHT OR FAN POINT WITH 1.5 mm2 SINGLE CORE, PVC INSULATED WIRE COPPER CONDUCTOR WIRE IN 20 mm (3/4in) DIA UPVC CONDUIT RECESSED IN THE WALL OR COLUMN, ROOF ETC. INCLUDING 1mm2 SINGLE CORE PVC INSULATED WIRE AS ECC AS REQUIRED.	1600	POINTS			
2	EXTENSION/ADDITIONAL WIRING FOR LIGHT, FAN OR CALL BELL POINT CONTROLLED WITH SAME SWITCH WITH 1.5mm2 PVC INSULATED WIRE IN 20 mm (3/4in) DIA UPVC CONDUIT RECESSED IN THE WALL OR COLUMN, INCLUDING 1mm2 PVC INSULATED WIRE AS ECC AS REQUIRED.	1500	POINTS			
3	SUPPLY & DRAWING OF 2 x 2.5mm2, SINGLE CORE, PVC INSULATED WIRE INCLUDING 1mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED (P+N+E)	16000	METERS			
4	SUPPLY & DRAWING OF 2 x 4mm2, SINGLE CORE, PVC INSULATED WIRE INCLUDING 1.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	11000	METERS			
5	SUPPLY & DRAWING OF 2 x 6mm2, SINGLE CORE, PVC INSULATED WIRE INCLUDING 2.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	200	METERS			
6	WIRING FOR SUB-MAIN WITH 4 x 4mm2, PVC INSULATED WIRE 300/500VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 1.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	310	METERS			
7	WIRING FOR SUB-MAIN WITH 4 x 6mm2, PVC INSULATED WIRE 300/500VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 2.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	3360	METERS			
8	WIRING FOR SUB-MAIN WITH 4x10mm2, PVC INSULATED WIRE 300/500VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 2.5mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ALL KINDS OF EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	423	METERS			

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SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
9	WIRING FOR SUB-MAIN WITH 4x16 mm2, PVC INSULATED WIRE 450/750VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 4mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ANY EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	200	METERS			
10	WIRING FOR SUB-MAIN WITH 4x25mm2, PVC INSULATED WIRE 450/750VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 4mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ANY EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	170	METERS			
11	WIRING FOR SUB-MAIN WITH 4x35mm2, PVC INSULATED WIRE 450/750 VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 6mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ANY EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	150	METERS			
12	WIRING FOR SUB-MAIN WITH 4x50mm2, PVC INSULATED WIRE 450/750 VOLTS GRADE, SINGLE CORE, STRANDED COPPER CONDUCTOR WIRE INCLUDING 6mm2 PVC INSULATED WIRE SINGLE CORE WIRE AS ECC IN ANY EXISTING OR GIVEN CONDUIT/CABLE DUCT AS REQUIRED. (P+N+E)	100	METERS			
13	SUPPLY & FIXING 25mm (1in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC FITTED ON SURFACE AS REQUIRED.	1200	METERS			
14	SUPPLY & FIXING 40mm (1 1/2in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC FITTED ON SURFACE AS REQUIRED.	1000	METERS			
15	SUPPLY & FIXING 50mm (2in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC FITTED ON SURFACE AS REQUIRED.	1000	METERS			
16	SUPPLY & FIXING 25mm (1in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC RECESSED IN THE WALL OR COLUMN AS REQUIRED.	5800	METERS			
17	SUPPLY & FIXING 40mm (1 1/2in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC RECESSED IN THE WALL OR COLUMN AS REQUIRED.	9000	METERS			
18	SUPPLY & FIXING 50mm (2in) DIA UPVC CONDUIT WITH ALL ESPECIAL SUCH AS BENDS, SOCKETS, JUNCTION ETC RECESSED IN THE IN THE WALL OR FLOOR AS REQUIRED.	9000	METERS			
19	PROVIDING & FIXING OF 50X50mm UPVC DUCT FITTED ON SURFACE AS REQUIRED BY SITE INCHARGE.	200	METERS			
20	PROVIDING & FIXING OF 100X100mm UPVC DUCT FITTED ON SURFACE AS REQUIRED BY SITE INCHARGE.	200	METERS			

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SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
21	PROVIDING & FIXING OF 150X150mm UPVC DUCT FITTED ON SURFACE AS REQUIRED BY SITE INCHARGE.	200	METERS			
22	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED / SURFACE MOUNTED PROJECT / PROFESSIONAL SERIES CEILING LIGHTS / DOWNLIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR, 100-110 LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWER FACTOR, 40000-50000 HOURS LIFECYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 11-13 WATTS	600	NOS			
23	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED / SURFACE MOUNTED PROJECT / PROFESSIONAL SERIES CEILING LIGHTS / DOWNLIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR, 100-110 LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWER FACTOR, 40000-50000 HOURS LIFECYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 16-18 WATTS	1500	NOS			
24	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED / SURFACE MOUNTED PROJECT / PROFESSIONAL SERIES CEILING LIGHTS / DOWNLIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR, 100-110 LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWER FACTOR, 40000-50000 HOURS LIFECYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 22-24 WATTS	150	NOS			
25	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED / SURFACE MOUNTED PROJECT / PROFESSIONAL SERIES CEILING LIGHTS / DOWNLIGHTS INCLUDING DRIVER HAVING WARM/NEUTRAL WHITE/COOL WHITE COLOUR, 100-110 LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWER FACTOR, 40000-50000 HOURS LIFECYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 30-34 WATTS	100	NOS			
26	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF RECESSED/ SURFACE MOUNTED LED PANEL LIGHT INCLUDING DRIVER, HAVING WARM/ NEUTRALWHITE /COOL WHITE COLOUR, 80-100LM/WATTS EFFICIENCY, 0.9 OR ABOVE POWERFACTOR, 20000-25000 HOURS LIFE CYCLE, INCLUDING CONNECTION, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 38-40 WATTS (2 x 2)	250	NOS			

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SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
27	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF LED BATTEN LIGHTS INCLUDING DRIVER, HAVING WARM / NEUTRAL WHITE /COOL WHITE COLOUR, 90-100 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 INCHARGE. - 18-20 WATTS	250	NOS			
28	PROVIDING & INSTALLING 140 Cm (56in) SWEEP CEILING FAN WITH BLADES, CANOPY, STANDARD LENGTH OF DOWN ROD INCLUDING CONNECTION WITH 14.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED. (WITHOUT REGULATOR) PAK, ROYAL, GFC, YOUNAS, MILLAT.	250	NOS			
29	PROVIDING & INSTALLING FALSE CEILING FAN (BOX FAN) WITH REMOTE, 24in (2 x 2) SIZE INCLUDING CONNECTIONS, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE (VOLDAM / PAK / ROYAL)	250	NOS			
30	PROVIDING & INSTALLING 45 Cm (18in) SWEEP WALL BRACKET FAN COMPLETE WITH BLADES, REGULATOR & PULLING CORD SWITCH, FITTED ON WALL OR COLUMN WITH GI CLIP INCLUDING CONNECTION AS REQUIRED. PAK, ROYAL, GFC, YOUNAS, MILLAT	50	NOS			
31	PROVIDING & INSTALLING 30 Cm (12in) SWEEP, METALLIC BODY EXHAUST FAN COMPLETE WITH BLADES, MOTOR, ETC FITTED IN EXISTING HOLE INCLUDING CONNECTION WITH 14/.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED PAK, ROYAL, GFC, YOUNAS, MILLAT.	20	NOS			
32	PROVIDING & INSTALLING 60 Cm (24in) SWEEP, METALLIC BODY EXHAUST FAN COMPLETE WITH BLADES, MOTOR, ETC FIXED IN EXISTING HOLE INCLUDING CONNECTION WITH 14/.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED PAK, ROYAL, GFC, YOUNAS, MILLAT.	12	NOS			
33	PROVIDING & INSTALLING 25 Cm (10in) SWEEP, PLASTIC BODY EXHAUST FAN COMPLETE WITH BLADES, MOTOR, ETC FIXED IN EXISTING HOLE INCLUDING CONNECTION WITH 14/.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED PAK, ROYAL, GFC, YOUNAS, MILLAT.	66	NOS			
34	PROVIDING & INSTALLING 30 Cm (12in) SWEEP, PLASTIC BODY EXHAUST FAN COMPLETE WITH BLADES, MOTOR, ETC FIXED IN EXISTING HOLE INCLUDING CONNECTION WITH 14/.0076in FLEXIBLE WIRE COMPLETE AS REQUIRED PAK, ROYAL, GFC, YOUNAS, MILLAT.	60	NOS			
35	PROVIDING & FIXING 10 AMPS POLYCARBONATE FLAME RETARDANT S.P SWITCH WITH FANCY REQUIRED GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	1900	NOS			

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SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
36	PROVIDING & FIXING 10 AMPS POLYCARBONATE FLAME RETARDANT 2-PIN SWITCH SOCKET UNIT (UNIVERSAL) WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	1000	NOS			
37	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)	400	NOS			
38	PROVIDING & FIXING 10/15 AMPS POLYCARBONATE FLAME RETARDANT 2-PIN SCHUKO SOCKET UNIT(GR-EARTH PIN) WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	40	NOS			
39	PROVIDING & FIXING LIGHT DIMMER POLYCARBONATE FLAME RETARDANT WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	355	NOS			
40	PROVIDING & FIXING POLYCARBONATE FLAME RETARDANT DATA SOCKET UNIT 8 CONTACT CAT-5 WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	250	NOS			
41	PROVIDING & FIXING POLYCARBONATE FLAME RETARDANT TELEPHONE SOCKET 4 CONTACT SINGLE 2 LINE WITH FANCY GANG PLATE FIXED ON DIE FABRICATED, POWDER COATED METAL BOARD RECESSED IN WALL OR COLUMN INCLUDING CONNECTION AS REQUIRED. (SCHNEIDER / PHILIPS)	250	NOS			
42	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF ONLINE UPS, WITH STANDARD BACKUP OF 15-20 MINUTES, SUITABLE FOR OPERATION AT 220/240 VOLTS, 50HZ, SINGLE PHASE AC SUPPLY, INCLUDING CONNECTIONS, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 1 KVA	3	NOS			
43	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF ONLINE UPS, WITH STANDARD BACKUP OF 15-20 MINUTES, SUITABLE FOR OPERATION AT 220/240 VOLTS, 50HZ, SINGLE PHASE AC SUPPLY, INCLUDING CONNECTIONS, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 2 KVA	3	NOS			
44	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF ONLINE UPS, WITH STANDARD BACKUP OF 15-20 MINUTES, SUITABLE FOR OPERATION AT 220/240 VOLTS, 50HZ, SINGLE PHASE AC SUPPLY, INCLUDING CONNECTIONS, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 3 KVA	6	NOS			

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SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
45	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF ONLINE UPS, 10KVA CAPACITY, WITH STANDARD BACKUP OF 15-20 MINUTES, 3 PHASE IN AND 3 PHASE OUT, SUITABLE FOR OPERATION AT 380/400VOLTS, 50HZ, AC SUPPLY, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE.	5	NOS			
46	PROVIDING & FIXING CUBICAL TYPE METAL SHEET VERMIN PROTECTED LT PANEL BOARD AS PER DRAWING WITH LOCKING ARRANGEMENT DULY POWDER COATED I/C ALL FASTENING DEVICES AND ELECTRICAL WIRE/ LEADS FOR INTERNAL CONNECTION COMPLETE AS REQUIRED.	650	SFT			
47	PROVIDING & FIXING 6 TO 32 AMPS, S.P MCCB FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	950	NOS			
48	6-32 AMPS DP MCCB.	250	NOS			
49	PROVIDING & FIXING 10 TO 60 AMPS,(HIGH BREAKING CAPACITY) T.P MCCB FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	70	NOS			
50	PROVIDING & FIXING 75 TO 100 AMPS,(LOW BREAKING CAPACITY) T.P MCCB FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	30	NOS			
51	PROVIDING & FIXING 250 TO 400 AMPS,(HIGH BREAKING CAPACITY) T.P CIRCUIT BREAKER FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	20	NOS			
52	PROVIDING & FIXING 400 TO 630 AMPS,(HIGH BREAKING CAPACITY) T.P CIRCUIT BREAKER FIXED ON EXISTING BOARD, I/C INTER-CONNECTION AS REQUIRED.	20	NOS			
53	PROVIDING & FIXING 400 TO 630 AMPS,(ADJUSTABLE- HIGH BREAKING CAPACITY) 4 POLE CIRCUIT BREAKER FIXED ON EXISTING BOARD, I/C INTERCONNECTION AS REQUIRED.	4	NOS			
54	PROVIDING & FIXING 630 TO 1200 AMPS, (ADJUSTABLE- HIGH BREAKING CAPACITY) 4 POLE CIRCUIT BREAKER FIXED ON EXISTING BOARD, I/C INTER CONNECTION AS REQUIRED.	4	NOS			
55	PROVIDING & FIXING 10 TO 60 AMPS, 4 POLE, THREE PHASE BUS BAR STRIP FITTED IN GIVEN DISTRIBUTION BOARD COMPLETE WITH BUS BAR INSULATOR, SCREWS, BOLTS ETC AS REQUIRED.	55	NOS			
56	PROVIDING & FIXING 70 TO 100 AMPS, 4 POLE, THREE PHASE BUS BAR STRIP FITTED IN GIVEN DISTRIBUTION BOARD COMPLETE WITH BUS BAR INSULATOR, SCREWS, BOLTS ETC AS REQUIRED.	60	NOS			
57	PROVIDING & FIXING 160 TO 200 AMPS, 4 POLE, THREE PHASE BUS BAR STRIP FITTED IN GIVEN DISTRIBUTION BOARD COMPLETE WITH BUS BAR INSULATOR, SCREWS, BOLTS ETC AS REQUIRED.	20	NOS			

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SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
58	PROVIDING & FIXING 400 AMPS, 4 POLE, THREE PHASE BUS BAR STRIP SET (STANDARD SIZE) FITTED IN SUITABLE SIZE METALLIC SHEET STEEL BOX WITH HINGED TYPE FRONT DOOR DULY PAINTED AND FIXED ON EXISTING BOARD I/C CONNECTION AS REQUIRED.	20	NOS			
59	PROVIDING & FIXING PILOT LAMP SET FITTED ON EXISTING BOARD I/C CONNECTION AS REQUIRED.	60	SETS			
60	VOLT METER 96 mm x 96 mm	60	NOS			
61	AMPERE METER 96 mm x 96 mm CT OPERATED 150 TO 1000 AMP	60	NOS			
62	CURRENT TRANSFORMER 200/5A	180	NOS			
63	PROVIDING AND FIXING EARTHING SET WITH 2ftx2ftx1/4in COPPER PLATE BURIED IN THE GROUND AT A DEPTH OF 12 FEET OR LESS IF WATER COMES OUT FROM THE GROUND LEVEL (WITH SALT AND CHARCOAL, OR EARTHING CHEMICAL POWDER) ETC MAKING THE PIT 12 FEET DEEP BY EXCAVATION OF ALL TYPE OF SOIL (EXCEPT SOFT OR HARD ROCK) I/C FIXING OF 8SWG COPPER WIRE IN 1/2in G.I CONDUIT COMPLETE IN ALL RESPECT AS REQUIRED.	60	JOBS			
64	PROVIDING AND FIXING 1in DIAMETER 3FT LONG LIGHTING COPPER ROD WITH FIVE SPIKES AND BALLS ON ITS HEAD AS REQUIRED.	100	JOBS			
65	PROVIDING AND FIXING 1-1/2in x 1/3in THICK COPPER STRIP WITH SUITABLE SADDLE AT 12in INTERVALS COMPLETE AS REQUIRED.	2000	METERS			
66	WIRING OF CCTV CAMERA WITH UTP CAT-6 IN EXISTING PVC CONDUIT/DUCT I/C CONNECTORS COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE (VOICE + DATA)	15000	METERS			
67	PROVIDING, FIXING AND INSTALLING POE GIGA BIT SWITCHES, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED. - 8 PORT POE SWITCH	32	JOBS			
68	PROVIDING, FIXING AND INSTALLING POE GIGA BIT SWITCHES, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED. - 16 PORT POE SWITCH	32	JOBS			
69	PROVIDING, SUPPLYING, INSTALLATION, FITTING, FIXING AND COMMISSIONING OF 4 CORE SINGLE MODE FIBER OPTICS CABLE IN GIVEN EXISTING PVC CONDUIT, BOX CONDUIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE.	500	METERS			
70	PROVIDING, SUPPLYING, INSTALLATION, FITTING, FIXING AND COMMISSIONING OF 8 CORE SINGLE MODE FIBER OPTICS CABLE IN GIVEN EXISTING PVC CONDUIT, BOX CONDUIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE	500	METERS			

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SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
71	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF MEDIA CONVERTER, USED FOR DATA CONVERSION FROM FIBER OPTIC TO CAT-6 ETHERNET CABLE, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE.	64	NOS			
72	PROVIDING, SUPPLYING, INSTALLATION, FITTING, FIXING AND COMMISSIONING OF ODF WITH UP & DOWN FIBER CONNECTIVITY WITH REQUIRED PROGRAMMING AS NEEDED, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 8 PORT POE SWITCH	40	NOS			
73	PROVIDING AND INSTALLATION OF ILLUMINATED SIGNBOARDS FOR LOUNGES IN BOTH URDU AND ENGLISH WORDS BEST MATERIAL (MS SHEET 18 SWG), LASER/FIBRE CUTTING OF LETTERS & SIGNS, ACRYLIC SHEET 4 mm YELLOW, POWDER COATING, COMPLETE 3D BENDING SCREWLESS SIGN, LED /SMD INJECTED MODULES, WATER PROOF POWER SUPPLY, 3D LIGHTING LATEST TYPE APPROVED COLOUR AND PATTERN, SINGLE AND DOUBLE FACED SIGNS COMPLETE IN ALL RESPECT AS PER INSTRUCTIONS OF ENGINEER INCHARGE.	250	SFT			
74	PROVIDING AND INSTALLATION OF MS 3D ILLUMINATED SIGNBOARDS FABRICATED WITH MS CHANNEL 3/4in x 1in (18-20SWG) STRUCTURE INCLUDING MS LETTER HAVING 4in THICKNESS OF 18-20 SWG POWDER COATED APPROVED COLOR, PLASTIC / ACRYLIC LETTER SHEET 3mm PURE YELLOW ILLUMINATED WITH 400 WATTS, SMD / LED INJECTED MODULES 5730 / 5050 COOL WHITE COLOR WITH SUITABLE WATER PROOF WIRING / POWER SUPPLY. JOB ALSO INCLUDES INVISIBLE ANGLE IRON STRUCTURE 2inx2in OF 6mm WITH WELDED SUPPORT FITTED ON HEAVY GAUGE IRON STRUCTURE AS PER SITE REQUIREMENT COMPLETE IN ALL RESPECTS WITH TESTING AND AS PER INSTRUCTIONS OF ENGINEER IN-CHARGE	480	SFT			
75	PROVIDING & FIXING OF UNIVERSAL MOUNTED LED BASED EXIT SIGN IMPORTED MAKE WITH DOUBLE / SINGLE FACE CONFIGURATION, 220VAC, 02 WATTS, COMPLETE WITH RECHARGEABLE NI-CAD BATTERY I/C MAKING CONNECTION ETC. COMPLETE IN ALL RESPECTS AS PER SATISFACTION OF ENGINEER IN-CHARGE	31	NOS			
76	PROVIDING & INSTALLATION OF 45 LITRES / HOUR CAPACITY WATER COOLER WITH BRAND NEW COMPRESSOR AND CONDENSOR, PRIME COPPER WRAPPED STEEL TANK AND ELECTRIC FAN MOTOR, PRIME GRADE INSULATION, STAINLESS STEEL FULLY DIE MADE BODY WITH BLACK COLOR ETC. COMPLETE IN ALL RESPECTS AS PER SATISFACTION OF ENGINEER IN-CHARGE	5	NOS			

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SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
77	PROVIDING & FIXING 12in x 4in MS CABLE TRAY PERFORATED 18 SWG COMPLETE WITH COVER OF 20 SWG INCLUDING PAINTING AND SUPPORTING SYSTEM	250	METERS			
78	PROVIDING & FIXING OF 6in x 4in MS CABLE TRAY PERFORATED 18 SWG COMPLETE WITH COVER OF 20 SWG INCLUDING PAINTING AND SUPPORTING SYSTEM	150	METERS			
79	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL 02 ZONE FIRE ALARM CONTROL PANEL SURFACE /RECESSED MOUNTING TYPE WITH FULL SWITCHING PROGRAMMING CAPABILITIES, SYSTEM SUITABLE OPERATION OF 230 VOLTS 50HZ WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER WITH BATTERY BACKUP COMPLIES WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED	3	JOBS			
80	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL 04 ZONE FIRE ALARM CONTROL PANEL SURFACE /RECESSED MOUNTING TYPE WITH FULL SWITCHING PROGRAMMING CAPABILITIES, SYSTEM SUITABLE OPERATION OF 230 VOLTS 50HZ WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER WITH BATTERY BACKUP COMPLIES WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	2	JOBS			
81	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL 08 ZONE FIRE ALARM CONTROL PANEL SURFACE /RECESSED MOUNTING TYPE WITH FULL SWITCHING PROGRAMMING CAPABILITIES, SYSTEM SUITABLE OPERATION OF 230 VOLTS 50HZ WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER WITH BATTERY BACKUP COMPLIES WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED	1	JOB			
82	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL SMOKE DETECTOR, WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	180	JOBS			
83	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL HEAT DETECTOR, WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING WITH ALLIED COMPONENTS APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	25	JOBS			

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SUB-HEAD	**BUILDING ELECTRIFICATION & LIFE SAFETY**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
84	PROVIDING, FIXING, TESTING AND COMMISSIONING OF MANUAL CALL POINT BREAK GLASS TYPE WITH SPARE GLASS WITH ALLIED COMPONENTS WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING ETC APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	50	JOBS			
85	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL WALL SOUNDER WITH ALLIED COMPONENTS WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING ETC APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	50	JOBS			
86	PROVIDING, FIXING, TESTING AND COMMISSIONING OF CONVENTIONAL 6in BELL WITH ALLIED COMPONENTS WITH FULL FUNCTIONALITY AS PER SPECIFICATION OF MANUFACTURER/ DRAWING ETC APPROVED MAKE OR AS APPROVED BY THE ENGINEER IN-CHARGE AS REQUIRED.	50	JOBS			
87	PROVIDING, FIXING, TWO CORE, 1.5mm, FIRE RESISTANT CABLE, MINIMUM FIRE RATING OF 2 HOUR, LAID IN CONDUIT (25mm DIA), COMPLETE IN ALL RESPECT, AS APPROVED BY THE ENGINEER IN-CHARGE.	3500	METERS			
					TOTAL	

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PAKISATN AIRPORTS AUTHORITY

PROJECT	**REHABILITATION OF DALBANDIN AIRPORT**		
LOCATION	**DALBANDIN**	PROVINCE	**BALOCHISTAN**
SUB-HEAD	**MECHANICAL WORKS**		

	DESCRIPTION OF WORKS	QUANTITY	UNIT	RATE (FIG)	RATE (WORDS)	AMOUNT
1	CONDUCTING ELECTRIC RESISTIVITY SURVEY AT DIFFERENT LOCATIONS TO CONFIGURE THE SUBSURFACE LITHOLOGIES/POSSIBILITY OF GROUND WATER SUITABLE FOR DRILLING TUBE WELL.	4	JOBS			
2	DRILLING OF TRIAL BORE IN SHINGLE GRAVEL AND ROCK INCLUDING SINKING AND WITH DRAWING OF CASING PIPES 6in - 10in DIA GROUND LEVEL TO 250 Rft	250	RFT			
3	-do- EXCEEDING 250 Rft	170	RFT			
4	CONVERSION OF TRIAL BORE IN SHINGLE GRAVEL AND ROCK INCLUDING SINKING AND WITH DRAWING OF CASING PIPES 15in - 18in DIA GROUND LEVEL TO 250 Rft	250	RFT			
5	-do- EXCEEDING 250 Rft	170	RFT			
6	FURNISHING SAMPLES OF WATER FROM BORE HOLE.	2	SETS			
7	PROVIDING AND INSTALLING PVC BAIL/END PLUG IN TUBE WELL BORE HOLE 2 ft LONG & 10in DIA CLASS E COMPLETE AS REQUIRED.	2	NOS			
8	PROVIDING AND INSTALLING 10in DIA U PVC BLIND PIPE BSS CLASS E IN TUBE WELL BORE HOLE INCLUDING SOCKETS AND SALVENT ETC COMPLETE AS REQUIRED AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED	200	RFT			
9	PROVIDING AND INSTALLING 10in DIA U PVC STRAINER BSS CLASS E IN TUBE WELL BORE HOLE INCLUDING SOCKETS AND SALVENT ETC COMPLETE AS REQUIRED AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED	640	RFT			
10	SHROUDING WITH GRADED PEA GRAVEL INTO THE SPACE BETWEEN BORE HOLE AND BLIND PIPE/STRAINER.	1105	CFT			
11	ELECTRIC/VIDEO LOGGING OF SUCCESSFUL BORE HOLE FOR PROPER PLACEMENT OF STRAINER/BLIND PIPE ETC COMPLETE AS REQUIRED.	2	JOBS			
12	TESTING DEVELOP AND STERILIZE OF TUBE WELL THROUGH COMPRESSOR UPTO 1.5 CUSECS DISCHARGE IN ACCORDANCE WITH APPROVED PROCEDURE UPTO DURATION OF 72 HOURS AS REQUIRED BY THE ENGINEER.	2	JOBS			

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SUB-HEAD	**MECHANICAL WORKS**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
13	PROVIDING & LAYING IN SITU 1:2:4 CEMENT CONCRETE USING SCREEN GRADED BAJRI IN FOUNDATION AND PLINTH I/C FORM WORK, RODDING, COMPACTING, CURING ETC.	144	CFT			
14	PROVIDING & FIXING CENTRIFUGAL PUMPING SET COMPLETE WITH AC 5 HP 2850/2900 RPM 380/400V 50 CYCLE 3 PHASE AC MOTOR WITH CENTRIFUGAL PUMP HAVING SUCTION & DISCHARGE 2 x 1 1/2in COUPLED ON A COMMON BASE PLATE AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	1	NO			
15	PROVIDING & FIXING CENTRIFUGAL PUMPING SET COMPLETE WITH AC 10 HP 2850/2900 RPM 380/400V 50 CYCLE 3 PHASE AC MOTOR WITH CENTRIFUGAL PUMP HAVING SUCTION & DISCHARGE 4in x 3in COUPLED ON A COMMON BASE PLATE AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	1	NO			
16	PROVIDING & FIXING CENTRIFUGAL PUMPING SET COMPLETE WITH AC 15 HP 2850/2900 RPM 380/400V 50 CYCLE 3 PHASE AC MOTOR WITH CENTRIFUGAL PUMP HAVING SUCTION & DISCHARGE 4in x 3in COUPLED ON A COMMON BASE PLATE AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	1	NO			
17	PROVIDING & FIXING SUBMERSIBLE PUMPING SET COMPRISING OF SUBMERSIBLE PUMP WITH 5 HP 2850/2900 RPM, 3 PHASE, 400 V, 50 HZ, AC ELECTRIC MOTOR CAPABLE TO DISCHARGE 1800-2500 US GPH (GALLONS PER HOUR) OF CLEAR WATER AT HEAD OF 250 TO 300 ft, INCLUDING ERRECTION CLAMP, CABLE CLAMP, NON RETURN VALVE, MOTOR CONTROL UNIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	1	NO			
18	PROVIDING & FIXING SUBMERSIBLE PUMPING SET COMPRISING OF SUBMERSIBLE PUMP WITH 10 HP 2850/2900 RPM, 3 PHASE, 400 V, 50 HZ, AC ELECTRIC MOTOR CAPABLE TO DISCHARGE 1800-2500 US GPH (GALLONS PER HOUR) OF CLEAR WATER AT HEAD OF 250 TO 300 ft, INCLUDING ERRECTION CLAMP, CABLE CLAMP, NON RETURN VALVE, MOTOR CONTROL UNIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	1	NO			
19	PROVIDING & FIXING SUBMERSIBLE PUMPING SET COMPRISING OF SUBMERSIBLE PUMP WITH 15 HP 2850/2900 RPM, 3 PHASE, 400 V, 50 HZ, AC ELECTRIC MOTOR CAPABLE TO DISCHARGE 1800-2500 US GPH (GALLONS PER HOUR) OF CLEAR WATER AT HEAD OF 250 TO 300 ft, INCLUDING ERRECTION CLAMP, CABLE CLAMP, NON RETURN VALVE, MOTOR CONTROL UNIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	1	NO			

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SUB-HEAD	**MECHANICAL WORKS**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
20	PROVIDING & FIXING SUBMERSIBLE PUMPING SET (KSB/GRUNDFOS/HMA) COMPRISING OF SUBMERSIBLE PUMP WITH 3 HP 2850/2900 RPM, 3 PHASE, 400 V, 50 HZ, AC ELECTRIC MOTOR CAPABLE TO DISCHARGE 800-900 US GPH (GALLONS PER HOUR) OF CLEAR WATER AT HEAD OF 250 TO 320 ft, INCLUDING ERRECTION CLAMP, CABLE CLAMP, NON RETURN VALVE, MOTOR CONTROL UNIT, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE AS REQUIRED.	1	NO			
21	PROVIDING & FIXING MANUAL OPERATED STAR DELTA STARTER SUITABLE FOR 3-10 HP AC.3 PHASE 50 CYCLE SUPPLY UP TO 12/25 AMPS TRIP RATING ON A PREPARED BOARD.	6	NOS			
22	WIRING FOR SUB-MAIN WITH 3 CORE, 6 mm2, STRANDED COPPER CONDUCTOR, PVC INSULATED & PVC SHEATHED CIRCULAR / FLAT CABLE IN EXISTING CONDUIT FITTED ON SURFACE / UNDERGROUND AS REQUIRED.	250	METERS			
23	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE WALL MOUNTED AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 0.9 TON - 1.0 TON (10800 BTU - 12000 BTU)	50	JOBS			
24	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE WALL MOUNTED AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 1.5 TON - 1.6 TON (18000 BTU - 19500 BTU)	150	JOBS			
25	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE WALL MOUNTED AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 1.9 TON - 2 TON (22800 BTU - 24000 BTU)	25	JOBS			
26	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE WALL MOUNTED AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 2.2 TON - 2.5 TON (26000 BTU - 30000 BTU)	25	JOBS			

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SUB-HEAD	**MECHANICAL WORKS**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
27	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF CASSETTE TYPE AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 1.9 TON - 2 TON (22800 BTU - 24000 BTU)	30	JOBS			
28	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF CASSETTE TYPE AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 3.8 TON - 4.0 TON (45600 BTU - 48000 BTU)	25	JOBS			
29	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF FLOOR STANDING AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 2 TON - 2.3 TON (24000 BTU - 28000 BTU)	10	JOBS			
30	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF FLOOR STANDING AIR CONDITIONER, HEAT & COOL, IN THE SPECIFIED PLACE. THE JOB INCLUDES CONNECTION OF COPPER PIPING OF OUT DOOR UNIT FITTED ON ROOF OR ANGLE IRON FRAME, MAKING INTER CONNECTION OF THE UNIT WITH SUITABLE SIZES OF WIRE ALSO PIPING FOR CONDENSED WATER ETC AS REQUIRED APPROVED MAKE (IMPORTED). - 3.8 TON - 4.0 TON (45600 BTU - 48000 BTU)	20	JOBS			
31	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF REFRIGERANT COPPER PIPE, 22 GAUGE WITH ALL TYPE OF FITTINGS LIKE, ELBOW, CLAMPING, AERO FLEX INSULATION, WRAPPING TAPE, ETC COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 1/4in	2000	FTS			
32	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF REFRIGERANT COPPER PIPE, 22 GAUGE WITH ALL TYPE OF FITTINGS LIKE, ELBOW, CLAMPING, AERO FLEX INSULATION, WRAPPING TAPE, ETC COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 1/2in	2000	FTS			
33	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF REFRIGERANT COPPER PIPE, 22 GAUGE WITH ALL TYPE OF FITTINGS LIKE, ELBOW, CLAMPING, AERO FLEX INSULATION, WRAPPING TAPE, ETC COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 3/8in	2000	FTS			

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SUB-HEAD	**MECHANICAL WORKS**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
34	PROVIDING, INSTALLATION, TESTING AND COMMISSIONING OF REFRIGERANT COPPER PIPE, 22 GAUGE WITH ALL TYPE OF FITTINGS LIKE, ELBOW, CLAMPING, AERO FLEX INSULATION, WRAPPING TAPE, ETC COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 5/8in	2000	FTS			
35	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF STANDBY 1500 RPM, DIESEL GENERATING SET, SUITABLE FOR 400/415 VOLTS, 3-PHASE, 50HZ, AC SUPPLY, WITH CANOPY, INCLUDING CONTROL WIRING, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 440 KVA (400 KVA PRIME RATINGS)	1	JOB			
36	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF STANDBY 1500 RPM, DIESEL GENERATING SET, SUITABLE FOR 400/415 VOLTS, 3-PHASE, 50HZ, AC SUPPLY, WITH CANOPY, INCLUDING CONTROL WIRING, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 700 KVA (640 KVA PRIME RATINGS)	2	JOBS			
37	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF 400 VOLTS, 3-PHASE, 3 POLE, ATS PANEL, WITH MOR, DULY POWDER COATED, PAINTED, HAVING MAGNETIC CONTACTOR, MECHANICAL INTERLOCKING, EMERGENCY STOP SYSTEM, ATS MODULE, BATTERY CHARGER, AUXILIARY RELAYS, VOLTMETER, AMPERE METER, FREQUENCY METER, SELECTOR SWITCH, INDICATION LIGHTS, COPPER BUS BAR, TIMERS, INCLUDING WIRING, LOCKING ARRANGEMENTS, ETC, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 400 KVA	1	JOB			
38	PROVIDING, INSTALLATION, TESTING & COMMISSIONING OF 400 VOLTS, 3-PHASE, 3 POLE, ATS PANEL, WITH MOR, DULY POWDER COATED, PAINTED, HAVING MAGNETIC CONTACTOR, MECHANICAL INTERLOCKING, EMERGENCY STOP SYSTEM, ATS MODULE, BATTERY CHARGER, AUXILIARY RELAYS, VOLTMETER, AMPERE METER, FREQUENCY METER, SELECTOR SWITCH, INDICATION LIGHTS, COPPER BUS BAR, TIMERS, INCLUDING WIRING, LOCKING ARRANGEMENTS, ETC, COMPLETE IN ALL RESPECT AS APPROVED BY THE ENGINEER INCHARGE. - 600 KVA	2	JOBS			
39	PROVIDING & FIXING 4 CORE, PVC INSULATED & PVC SHEATHED, 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR, UNARMOURED, L.T CABLE FIXED ON SURFACE WITH HEAVY GAUGE GI FLAT STRIP SADDLE AT SUITABLE DISTANCE AS PER PAK. P.W.D SPECIFICATION AS REQUIRED. - 185 mm2	310	METERS			
40	PROVIDING & FIXING 4 CORE, PVC INSULATED & PVC SHEATHED, 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR, UNARMOURED, L.T CABLE FIXED ON SURFACE WITH HEAVY GAUGE GI FLAT STRIP SADDLE AT SUITABLE DISTANCE AS PER PAK. P.W.D SPECIFICATION AS REQUIRED. - 240 mm2	200	METERS			

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SUB-HEAD	**MECHANICAL WORKS**					
	DESCRIPTION OF WORKS	**QUANTITY**	**UNIT**	**RATE (FIG)**	**RATE (WORDS)**	**AMOUNT**
41	PROVIDING & FIXING 4 CORE, PVC INSULATED & PVC SHEATHED, 600/1000 VOLTS GRADE WITH STRANDED COPPER CONDUCTOR, UNARMOURED, L.T CABLE FIXED ON SURFACE WITH HEAVY GAUGE GI FLAT STRIP SADDLE AT SUITABLE DISTANCE AS PER PAK. P.W.D SPECIFICATION AS REQUIRED. - 300 mm2	180	METERS			
42	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 16 mm2 TO 25 mm2	750	NOS			
43	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 35 mm2 TO 50 mm2	30	NOS			
44	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 70 mm2 TO 95 mm2	30	NOS			
45	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 120 mm2 TO 150 mm2	20	NOS			
46	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 185 mm2 TO 240 mm2	20	NOS			
47	MAKING TERMINATION OF 3 OR 4 CORE ARMOURED / UN-ARMOURED COPPER CONDUCTOR, PVC X PVC L.T CABLE INCLUDING PROVIDING & FIXING PROPER LUGS, ETC COMPLETE IN ALL RESPECT AS REQUIRED. - 300 mm2	14	NOS			
82	VENTILATION SYSTEM: EXPLOSION-PROOF EXHAUST FANS AND AIR VENTS (UAV BUNKERS)	4	NOS			
83	DEHUMIDIFIER: TO MAINTAIN LOW HUMIDITY INSIDE BUNKER (UAV BUNKERS)	2	NOS			
84	FIRE SUPPRESSION: FIRE EXTINGUISHERS (DCP) AS PER SAFETY CODES (UAV BUNKERS)	4	NOS			
					TOTAL	

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

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

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

☐ Not debarred due to deviation from commitment of Bid Securing Declaration-☐ Not debarred due to non-performance			
Year	**Non-performed portion of contract**	**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and PKR equivalent)**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Reason(s) for nonperformance: *[indicate main reason(s)]*	*[insert amount]*
Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements			
☐ Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.3 as indicated below.			

Year of dispute	**Amount in dispute (currency)**	**Contract Identification**	**Total Contract Amount (currency), ~~US$~~ PKR Equivalent (exchange rate)**

[insert year]	*[insert amount]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Status of dispute: *[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]*	*[insert amount]*

☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4.

☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.

Year of award	**Outcome as percentage of Net Worth**	**Contract Identification**	**Total Contract Amount (currency), PKR Equivalent (exchange rate)**
[insert year]	*[insert percentage]*	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: *[insert full name]* Address of Procuring Agency: *[insert street/city/country]* Matter in dispute: *[indicate main issues in dispute]* Party who initiated the dispute: *[indicate "Procuring Agency" or "Supplier"]* Court/ arbitral award decision: *[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]*	*[insert amount]*