

**BIDDING DOCUMENTS**  
**INTERNAL & EXTERNAL ELECTRICAL WORKS**  
**FOR**  
**THE CONSTRUCTION OF SOFTWARE ENGINEERING DEPARTMENT**  
(Quaid-e-Awam University of Engineering Science & Technology)

**SINGLE STAGE TWO ENVELOPE**



**Available on**

**QUEST website ([www.quest.edu.pk](http://www.quest.edu.pk))**  
**&**  
**SPPRA website ([www.sppra.org.pk](http://www.sppra.org.pk))**

**May, 2022**

**Quaid-e-Awam University of Engineering Science & Technology**  
**Nawabshah, Sindh Pakistan**

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**INVITATION  
FOR  
BIDS**

## INVITATION FOR BIDS

**QUAID-E-AWAM UNIVERSITY**  
OF ENGINEERING SCIENCE & TECHNOLOGY NAWABSHAH  
Cell # 0244-930615  
E-mail [pc.quest92@gmail.com](mailto:pc.quest92@gmail.com)  
Website [www.quest.edu.pk](http://www.quest.edu.pk)



PROJECT COORDINATOR

No. QUEST/NH/PC/-157

Dated: 11.05.2022

### NOTICE INVITING TENDER

**"Say No To Corruption"**

The Quaid-e-Awam University of Engineering, Science & Technology (QUEST) Nawabshah invites competent contractors, joint ventures or consortiums to submit sealed bids / tenders under SPPRA Rules 2010 and Pakistan Engineering Council guidelines for the following works;

Sr · N o.	Name of Work	Estimate Cost	Bid Security	Tender Fee	Completion period	Date of issuance	Submission on 07.06.2022 at following times	Opening on 07.06.2022 at following times
1	Construction of Software Engineering Department at QUEST, Nawabshah	125.833 million	5%	5,000	18 Months	19.05.2022 To 06.06.2022	11:00 AM	11:30 AM
2	Construction of Environmental Engineering Department at QUEST, Nawabshah	125.044 million	5%	5,000	18 Months		11:00 AM	12:00 Noon
3	Internal and External Electrical work of Software Engineering Department	20.003 million	5%	4,000	18 Months		12:00 Noon	12:30 PM
4	Internal and External Electrical work of Environmental Engineering Department	16.283 million	5%	4,000	18 Months		12:00 Noon	01:00 PM

**Eligibility:** All the interested Contractors / Firms eligibility criteria, viz. having valid registration with Federal Board of Revenue (FBR) for Income Tax, Registration with SRB for SRB Tax & Pakistan Engineering Council (PEC) in relevant category and discipline, **Electrical Inspector license of concerned region is mandatory in work Sr. No.3 &4.**

- i. Minimum 10 years experience along with documentary evidence of works executed / works in progress.
- ii. Details of turnover (including in terms of rupees) at least last five years that average turnover should not be less than the twice of estimated cost of above mentioned bids (Sr. No. 01 to 04 each work separately) and it would be verified by bank certificate with statement.
- iii. Undertaking of affidavit that the firm is not involved in any litigation of abandoned or executing agency.
- iv. Latest Income Tax Certificate (NTN).
- v. Detailed portfolio of company profile.

**Method of Procurement: SINGLE STAGE - TWO ENVELOPE**

**Bidding / Tender Documents:**


- i) **Issuance:** Documents will be issued from 19.05.2022 to 06.06.2022 on payment of above mentioned tender fee (Non refundable) in the shape of D.D. / Pay order in the favor of Director Finance QUEST Nawabshah.
- ii) **Submission:** Last date of submission 07.06.2022 at 11:00 AM (Work Sr. No 1 & 2) & 12:00 Noon (Work Sr. No 3 & 4)
- iii) **Opening:** Tenders will be opened same date of submission (i-e) on 07.06.2022 at 11:30 am to 01:00 pm (30 minutes for each Sr. works)
- iv) **Amount of Bid Security/earnest money:** 5% of bid amount at the time of bid submission.
- v) **Bid Validity Period:** (90) days
- vi) **Place:** Office of the Project Coordinator/Project Implementation Unit, Quaid-e-Awan University of Engineering, Science & Technology (QUEST), Nawabshah S.B.A Sindh. Office # 0244-930615
- vii) **Un-responded Tenders** will be again issued / submitted / opened on following dates.  
2<sup>nd</sup> Attempt a) Issue date 07-06-2022 to 21.06.2022 b) Submission & Opening 22.06.2022 time and place will remain same.

**Terms & Conditions:**

- The contract documents and other terms & Conditions can be seen and blank tenders be obtained from the office of the undersigned on any working day and also downloaded from QUEST ([www.quest.edu.pk](http://www.quest.edu.pk)) and SPPRA (PPMS) websites from 19.05.2022. The bids will be opened on the date and time as mentioned above in the presence of bidders or their authorized representative who wish to attend.
- Earnest money in the shape of bank draft/pay order in the favour of Director Finance QUEST Nawabshah must be attached with the bid documents.
- The cost of bid should inclusive of all government taxes.
- The procurement agency reserve the right to accept or reject any or all financial bids as per SPPRA rules.
- In case of any disturbance or busy schedule of any committee member, the tenders will be opened on next working day.

**Under following conditions tender will be rejected:**

- Conditional bids / tenders.
- Bids not accompanied by the bid security of required amount and form.
- Bid received after specified date and time.
- Black listed firms.
- In case the applicant not fulfills SPPRA or aforesaid conditions, the applications for issuance of bidding document will not be entertained.

  
**Project Coordinator**  
QUEST, Nawabshah  
11-05-2022

**INSTRUCTIONS  
TO BIDDERS  
&  
BIDDING DATA**

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# INSTRUCTIONS TO BIDDERS

## A. GENERAL

### IB.1 Scope of Bid & Source of Funds

#### 1.1 Scope of Bid

The Employer as defined in the Bidding Data (hereinafter called “the Employer”) wishes to receive Bids for the Works summarized in the Bidding Data (hereinafter referred to as “the Works”).

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

#### 1.2 Source of Funds

The Employer has arranged funds from HEC-Islamabad, Government of Pakistan.

### IB.2 Eligible Bidders

2.1 Bidding is open to all firms and persons meeting the following requirements:

- a) Duly licensed by the Pakistan Engineering Council (PEC) in the appropriate category for value of Works.
- b) Eligibility : All the interested Contractors / Firms eligibility criteria, viz. having

valid registration with Federal Board of Revenue (FBR) for Income Tax, Registration with SRB for SRB Tax & Pakistan Engineering Council (PEC) in relevant category and discipline, **Electrical Inspector license of concerned region is mandatory in work Sr. No.3 &4.**

- i. Minimum 10 years experience along with documentary evidence of works executed / works in progress.
- ii. Details of turnover (including in terms of rupees) at least last five years that average turnover should not be less than the twice of estimated cost of above mentioned bids (Sr. No. 01 to 04 each work separately) and it would be verified by bank certificate with statement.
- iii. Undertaking of affidavit that the firm is not involved in any litigation of abandoned or executing agency.
- iv. Latest Income Tax Certificate (NTN).
- v. Detailed portfolio of company profile.

**Method of Procurement: SINGLE STAGE – TWO ENVELOPE**

### IB.3 Cost of Bidding

3.1 The bidder shall bear all costs associated with the preparation and submission of its bid



and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

## **B. BIDDING DOCUMENTS**

### **IB.4 Contents of Bidding Documents**

4.1 In addition to Invitation for Bids, the Bidding Documents are those stated below, and should be read in conjunction with any Addendum issued in accordance with Sub-Clause IB.6.1.

1. Instructions to Bidders & Bidding Data
2. Form of Bid & Schedules to Bid  
Schedules to Bid comprise the following:
  - (i) Schedule A: Schedule of Prices
  - (ii) Schedule B: Specific Works Data
  - (iii) Schedule C: Works to be Performed by Subcontractors
  - (iv) Schedule D: Proposed Programme of Works
  - (v) Schedule E: Method of Performing Works
  - (vi) Schedule F: Integrity Pact
3. Conditions of Contract & Contract Data
4. Standard Forms:
  - (i) Form of Bid Security
  - (ii) Form of Performance Security
  - (iii) Form of Contract Agreement
  - (iv) Form of Bank Guarantee for Advance Payment
5. Specifications
6. Drawings, if any

### **IB.5 Clarification of Bidding Documents**

5.1 A prospective bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Engineer/Employer at the Employer's/Engineer's address indicated in the Bidding Data.

5.2 The **Engineer/Employer will respond to any request for clarification which it receives earlier than ten (10) days prior to the deadline for the submission of Bids.** Copies of the Engineer/Employer's response will be forwarded to all prospective bidders, **at least five (5) days prior to dead line for submission of Bids,** who have received the Bidding Documents including a description of the enquiry but without identifying its source.

## **IB.6 Amendment of Bidding Documents**

- 6.1 At any time prior to the deadline for submission of Bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by issuing addendum.
- 6.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to Sub-Clause 6.1 hereof, and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective bidders shall acknowledge receipt of each addendum in writing to the Employer.
- 6.3 To afford prospective bidders reasonable time in which to take an addendum into account in preparing their Bids, the Employer may at its discretion extend the deadline for submission of Bids.

## **C. PREPARATION OF BIDS**

### **IB.7 Language of Bid**

- 7.1 The bid prepared by the bidder and all correspondence and documents relating to the Bid, exchanged by the bidder and the Employer shall be written in the English language, provided that any printed literature furnished by the bidder may be written in another language so long as accompanied by an English translation of its pertinent passages in which case, for purposes of interpretation of the Bid, the English translation shall govern.

### **IB.8 Documents Comprising the Bid**

- 8.1 The bid prepared by the bidder shall comprise the following components:
  - (a) Covering Letter
  - (b) Form of Bid duly filled, signed and sealed, in accordance with Sub-Clause IB.14.3.
  - (c) Schedules (A to F) to Bid duly filled and initialed, in accordance with the instructions contained therein & in accordance with Sub-Clause IB14.3.
  - (d) Bid Security furnished in accordance with Clause IB.13.
  - (e) Power of Attorney in accordance with Sub-Clause IB 14.5.
  - (f) Documentary evidence in accordance with Clause IB.11
  - (g) Documentary evidence in accordance with Clause IB.12.

### **IB.9 Sufficiency of Bid**

- 9.1 Each bidder shall satisfy himself before Bidding as to the correctness and sufficiency of

his Bid and of the rates and prices entered in the Schedule of Prices, which rates and prices shall except in so far as it is otherwise expressly provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper completion of the Works.

- 9.2 The bidder is advised to obtain for himself at his own cost and responsibility all information that may be necessary for preparing the bid and entering into a Contract for execution of the Works.

#### **IB.10 Bid Prices, Currency of Bid and Payment**

- 10.1 The bidder shall fill up the Schedule of Prices (Schedule A to Bid) indicating the unit rates and prices of the Works to be performed under the Contract. Prices in the Schedule of Prices shall be entered keeping in view the instructions contained in the Preamble to Schedule of Prices.
- 10.2 Unless otherwise stipulated in the Conditions of Contract, prices quoted by the bidder shall remain fixed during the bidder's performance of the Contract and not subject to variation on any account.
- 10.3 The unit rates and prices in the Schedule of Prices shall be quoted by the bidder in the currency as stipulated in Bidding Data.

#### **IB.11 Documents Establishing Bidder's Eligibility and Qualifications**

- 11.1 Pursuant to Clause IB.8, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.
- 11.2 Bidder/Manufacturer must possess and provide evidence of its capability and the experience as stipulated in Bidding Data and the Qualification Criteria stipulated in the Bidding Documents.

#### **IB.12 Documents Establishing Works' Conformity to Bidding Documents**

- 12.1 The documentary evidence of the Works' conformity to the Bidding Documents may be in the form of literature, drawings and data and the bidder shall furnish documentation as set out in Bidding Data.
- 12.2 The bidder shall note that standards for workmanship, material and equipment, and references to brand names or catalogue numbers, if any, designated by the Employer in the Technical Provisions are intended to be descriptive only and not restrictive.

#### **IB.13 Bid Security**

- 13.1 Each bidder shall furnish, as part of his bid, at the option of the bidder, a Bid Security in the amount stipulated in Bidding Data in Pak. Rupees in the form of Deposit at Call or a Bank Guarantee issued by a Scheduled Bank in Pakistan in favor of the Employer valid for a period up to twenty eight (28) days beyond the bid validity date.
- 13.2 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.

- 13.3 The bid securities of unsuccessful bidders will be returned upon award of contract to the successful bidder or on the expiry of validity of Bid Security whichever is earlier.
- 13.4 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security, pursuant to Clause IB.21 and signed the Contract Agreement, pursuant to Sub-Clauses IB.20.2 & 20.3.
- 13.5 **The Bid Security may be forfeited:**
- (a) if a bidder withdraws his bid during the period of bid validity; or
  - (b) if a bidder does not accept the correction of his Bid Price, pursuant to Sub-Clause 16.4 (b) hereof; or
  - (c) in the case of a successful bidder, if he fails to:
    - (i) Furnish the required Performance Security in accordance with Clause IB.21, or
    - (ii) Sign the Contract Agreement, in accordance with Sub-Clauses IB.20.2 & 20.3.

#### **IB.14 Validity of Bids, Format, Signing and Submission of Bid**

- 14.1 Bids shall remain valid for the period stipulated in the Bidding Data after the date of bid opening.
- 14.2 All Schedules to Bid are to be properly completed and signed.
- 14.3 No alteration is to be made in the Form of Bid except in filling up the blanks as directed. If any alteration be made or if these instructions be not fully complied with, the bid may be rejected.
- 14.4 Each bidder shall prepare Original and number of copies specified in the Bidding Data of the documents comprising the bid as described in Clause IB.8 and clearly mark them "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
- 14.5 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign (in the case of copies, Photostats are also acceptable). This shall be indicated by submitting a written Power of Attorney authorizing the signatory of the bidder to act for and on behalf of the bidder. All pages of the bid shall be initialed and official seal be affixed by the person or persons signing the bid.
- 14.6 The Bid shall be delivered in person or sent by registered mail at the address to Employer as given in Bidding Data.

## **D. SUBMISSION OF BID**

### **IB.15 Deadline for Submission, Modification & Withdrawal of Bids**

- 15.1 Bids must be received by the Employer at the address/provided in Bidding Data not later than the time and date stipulated therein.
- 15.2 Bids submitted through telegraph, telex, fax or e-mail shall not be considered.
- 15.3 Any bid received by the Employer after the deadline for submission prescribed in Bidding Data will be returned unopened to such bidder.
- 15.4 Any bidder may modify or withdraw his bid after bid submission provided that the modification or written notice of withdrawal is received by the Employer prior to the deadline for submission of bids.
- 15.5 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security pursuant to Sub-Clause IB.13.5 (a).

## **E. BID OPENING AND EVALUATION**

### **IB.16 Bid Opening, Clarification and Evaluation**

- 16.1 The Employer will open the bids, in the presence of bidders' and TOC (Tender Opening Committee), at the time, date and location stipulated in the Bidding Data.
- 16.2 The bidder's name, Bid Prices, any discount, the presence or absence of Bid Security, and such other details as the Employer at its discretion may consider appropriate, will be announced by the Employer at the bid opening. **The Employer will record the minutes of the bid opening.** Representatives of the bidders who choose to attend shall sign the **attendance sheet.**  
  
Any Bid Price or discount which is not read out and recorded at bid opening will not be taken into account in the evaluation of bid.
- 16.3 To assist in the examination, evaluation and comparison of Bids the Engineer/Employer may, at its discretion, ask the bidder for a clarification of its Bid. The request for clarification and the response shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted.
- 16.4 (a) Prior to the detailed evaluation, pursuant to Sub-Clauses IB.16.7 to 16.9, the Engineer/Employer will determine the substantial responsiveness of each bid to the Bidding Documents. For purpose of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding Documents without material deviations. It will include determining the

requirements listed in **Bidding Data**.

(b) **Arithmetical errors will be rectified on the following basis:**

If there is a discrepancy between the unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the words and figures the amount in words shall prevail. If there is a discrepancy between the Total Bid price entered in Form of Bid and the total shown in Schedule of Prices-Summary, the amount stated in the Form of Bid will be corrected by the Employer in accordance with the Corrected Schedule of Prices.

**If the bidder does not accept the corrected amount of Bid, his Bid will be rejected and his Bid Security forfeited.**

- 16.5 A Bid determined as substantially non-responsive will be rejected and will not subsequently be made responsive by the bidder by correction of the non-conformity.
- 16.6 Any minor informality or non-conformity or irregularity in a Bid which does not constitute a material deviation may be waived by Employer, provided such waiver does not prejudice or affect the relative ranking of any other bidders.
- 16.7 The Engineer/Employer will evaluate and compare only the bids previously determined to be substantially responsive pursuant to Sub-Clauses IB.16.4 to 16.6 as per requirements given hereunder. Bids will be evaluated for complete scope of works. The prices will be compared on the basis of the Evaluated Bid Price pursuant to Sub-Clause 16.8 herein below.

(a) **Technical Evaluation**

It will be examined in detail whether the Works offered by the bidder complies with the Technical Provisions of the Bidding Documents. For this purpose, the bidder's data submitted with the bid in Schedule B to Bid will be compared with technical features/criteria of the Works detailed in the Technical Provisions. Other technical information submitted with the bid regarding the Scope of Work will also be reviewed.

(b) Commercial Evaluation

It will be examined in detail whether the bids comply with the commercial/contractual conditions of the Bidding Documents. It is expected that **no material deviation/stipulation shall be taken by the bidders.**

16.8 Evaluated Bid Price

In evaluating the bids, the Engineer/Employer will determine for each bid in addition to the Bid Price, the following factors (adjustments) in the manner and to the extent indicated below to determine the Evaluated Bid Price:

- (i) Making any correction for arithmetic errors pursuant to Sub-Clause 16.4 hereof.
- (ii) Making an appropriate price adjustment for any other acceptable variation or deviation.
- (iii) Making an appropriate price adjustment for Deviations in terms of Payments (if any and acceptable to the Employer).
- (iv) Discount, if any, offered by the bidders as also read out and recorded at the time of bid opening.

16.9 Evaluation Methods

Pursuant to Sub-Clause 16.8, Para (ii), and (iii) following evaluation methods for price adjustments will be followed:

(i) Price Adjustment for Technical Compliance

The cost of making good any deficiency resulting from technical non compliance will be added to the Corrected Total Bid Price for comparison purposes only. The adjustments will be applied taking the highest price quoted by other bidders being evaluated in detail in their original Bids for corresponding item. In case of non availability of price from other bidders, the price will be estimated by the Engineer/Employer.

(ii) Price Adjustment for Commercial Compliance

The cost of making good any deficiency resulting from any quantifiable variations and deviations from the Bid Schedules and Conditions of Contract, as determined by the Engineer/Employer will be added to the Corrected Total Bid Price for comparison purpose only. Adjustment for commercial compliance will be added to the Corrected Total Bid Prices.



(iii) Price Adjustment for Deviation in Terms of Payments

Refer to Bidding Data

**IB.17 Process to be Confidential**

- 17.1 Subject to Sub-Clause IB.16.3 heretofore, no bidder shall contact Engineer/Employer on any matter relating to its Bid from the time of the Bid opening to the time the bid evaluation result is announced by the Employer. The evaluation result shall be announced at least ten (10) days prior to award of Contract. The announcement to all bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated.
- 17.2 Any effort by a bidder to influence Engineer/Employer in the Bid evaluation, Bid comparison or Contract Award decisions may result in the rejection of his Bid. Whereas, any bidder feeling aggrieved may lodge a written complaint not later than fifteen (15) days after the announcement of the bid evaluation result, however, mere fact of lodging a complaint shall not warrant suspension of procurement process.

**F. AWARD OF CONTRACT**

**IB.18. Post Qualification**

- 18.1 The Employer, at any stage of the bid evaluation, having credible reasons for or *prima facie* evidence of any defect in supplier's or contractor's capacities, may require the suppliers or contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

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

- 18.2 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 bidders' qualifications submitted under Clause IB.11, as well as such other information required in the Bidding Documents.

**IB.19 Award Criteria & Employer's Right**

- 19.1 Subject to Sub-Clause IB.19.2, the Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be qualified to satisfactory perform the Contract in accordance with the provisions of Clause IB.18.
- 19.2 Not with standing Sub-Clause IB.19.1, the Employer reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation to inform the affected bidders of the grounds for the Employer's action except that the

grounds for its rejection of all bids shall upon request be communicated, to any bidder who submitted a bid, without justification of the grounds. Notice of the rejection of all the bids shall be given promptly to all the bidders.

#### **IB.20 Notification of Award & Signing of Contract Agreement**

- 20.1 Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing (“Letter of Acceptance”) that his bid has been accepted.
- 20.2 Within seven (07) days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will send the successful bidder the Form of Contract Agreement provided in the Bidding Documents, incorporating all agreements between the parties.
- 20.3 The formal Agreement between the Employer and the successful bidder shall be executed within seven (07) days of the receipt of Form of Contract Agreement by the successful bidder from the Employer.

#### **IB.21 Performance Security**

- 21.1 The successful bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the Conditions of Contract within a period of fourteen (14) days after the receipt of Letter of Acceptance.
- 21.2 Failure of the successful bidder to comply with the requirements of Sub-Clauses IB.20.2 & 20.3 or 21.1 or Clause IB.22 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

#### **IB.22 Integrity Pact**

The Bidder shall sign and stamp the Form of Integrity Pact provided at Schedule-F to Bid in the Bidding Document for all Federal Government procurement contracts. Failure to provide such Integrity Pact shall make the bid non-responsive.

## BIDDING DATA

### Instructions to Bidders

#### Clause Reference

#### 1.1 Employer

Quaid-e-Awam University of Engineering Science & Technology  
Nawabshah, Sindh.

#### Brief Description of Works

Internal & External Electrical works for Software Engineering Department Building at  
QUEST, Nawabshah

- 5.1 (a) Employer's address:  
Postal Address: Office of the Project Coordinator, Quaid-e-Awam University of  
Engineering Science & Technology, Nawabshah.  
Phone: 0244 930615  
E-mail: pc.quest92@gmail.com
- (b) Engineer's address:  
Postal Address: Quaid-e-Awam University of Engineering Science &  
Technology, Nawabshah.  
Phone: 0244 930615  
E-mail: pc.quest92@gmail.com
- 10.3 Bid shall be quoted entirely in Pak. Rupees. The payment shall be made in Pak. Rupees.
- 11.2 The bidder/manufacturer has the financial, technical and production capability necessary to perform the Contract as follows: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 12.1 (a) A detailed description of the Works, essential technical and performance characteristics.
- (b) Complete set of technical information, description data, literature and drawings as required in accordance with Schedule B to Bid, Specific Works Data. This will include but not be limited to a sufficient number of drawings, photographs, catalogues, illustrations and such other information as is necessary to illustrate clearly the significant characteristics such as general construction dimensions and

other relevant information about the works to be performed.

**13.1 Amount of Bid Security**

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(Fill in lump sum amount or in %age of bid amount of 5%)

**14.1 Period of Bid Validity**

Not More than 90 (Ninety Days) can be extended as per ground realities.

**14.4 Number of Copies of the Bid to be submitted**

(02) Copies “One original plus one photocopy” has been submitted.

**14.6 (a) Employer's Address for the Purpose of Bid Submission**

Employer’s address:

Postal Address: Office of the Project Coordinator, at Quaid-e-Awam University  
of Engineering Science & Technology, Sakrand Road Nawabshah.

Phone:0244 930615

E-mail: pc.quest92@gmail.com

**15.1 Deadline for Submission of Bids**

12:00 pm on 7<sup>th</sup> June 2022.

**16.1 Venue, Time, and Date of Bid Opening**

Venue: Office of the Project Coordinator, QUEST, Nawabshah.

Time: 12:30 pm

Date: 7<sup>th</sup> June 2022

**16.4 Responsiveness of Bids**

- (i) the Bid is valid till required period,
- (ii) the Bid prices are firm during currency of contract (if it is a fixed price bid)
- (iii) Completion period offered is within specified limits,
- (iv) the Bidder/Manufacturer is eligible to Bid and possesses the requisite experience, capability and qualification.
- (v) The Bid does not deviate from basic technical requirements and
- (vi) the Bids are generally in order, etc

16.9 **Price Adjustment:**

(iii) Price Adjustment for Deviations in Terms of Payment

If a bid deviates from the terms of payment/payment conditions as specified in the Conditions of Contract and if such deviation is considered acceptable to the Employer, mark-up earned for any earlier payments involved in the terms outlined in the Bid as compared to those stipulated in the Conditions of Contract shall be calculated at the mark-up rate per annum (as per current policy) and shall be added to the Corrected Total Bid Price for comparison purposes only.

**FORM OF BID AND SCHEDULES TO BID**

## FORM OF BID

(LETTER OF OFFER)

Bid Reference No. \_\_\_\_\_  
Internal & External Electrical Works o Software Engineering Department  
at QUEST, Nawabshah.

To:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Gentlemen,

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 Nos. \_\_\_\_\_ for the execution of the above-named Works, we, the undersigned, being a company doing business under the name of and address \_\_\_\_\_ and being duly incorporated 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 Addenda thereto for the Total Bid Price of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) 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 amount of \_\_\_\_\_ drawn in your favour or made payable to you and valid for a period of twenty eight (28) days beyond the period of validity of Bid.
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 of \_\_\_\_\_ days from the date fixed for receiving the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
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 \_\_\_\_\_, 22

Signature \_\_\_\_\_

in the capacity of \_\_\_\_\_ duly authorized to sign bid for and on behalf of

\_\_\_\_\_  
(Name of Bidder in Block Capitals)

(Seal)

Address

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Witness:

(Signature) \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_



**[SCHEDULES TO BID INCLUDE THE FOLLOWING:**

- Schedule A to Bid: Schedule of Prices
- Schedule B to Bid: Specific Works Data
- Schedule C to Bid: Works to be Performed by Subcontractors
- Schedule D to Bid: Proposed Programme of Works
- Schedule E to Bid: Method of Performing Works
- Schedule F to Bid: Integrity Pact]

**SCHEDULE – A TO BID**  
**SCHEDULE OF PRICES**

<b><u>Sr. No.</u></b>		<b><u>Page No.</u></b>
1.	Preamble to Schedule of Prices	26
2.	Schedule of Prices	29
	(a) Summary of Bid Prices	
	(b) Detailed Schedule of Prices	

**PREAMBLE TO SCHEDULE OF PRICES**

**1. General**

- 1.1 The Schedule of Prices shall be read in conjunction with the 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 System International Unites (SI Units).

**4. Rates and Prices**

- 4.1 Except as otherwise expressly provided under the 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 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 - A TO BID

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 bidder shall be deemed to have obtained all information as to and all requirements related thereto which may affect the bid price.
- (b) The Contractor shall be responsible to make complete arrangements for the transportation of the Plants, Technical staff and relevant drawings and documents shall be available at 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 bidder 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 utilize such sums.

**SCHEDULE - A TO BID**

**SCHEDULE OF PRICES – SUMMARY OF BOQ/BID PRICES**

<b>Bill No.</b>	<b>Description</b>	<b>Total Amount (Rs)</b>
1.		
	Total Bid Price:	

**SCHEDULE - A TO BID**

**SCHEDULE OF PRICES/BOQ**

<b>Item No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit Rate(Rs)</b>	<b>Total Amount (Rs)</b>
1.				
<b>Total:</b>				

**SCHEDULE - B TO BID**

**\*SPECIFIC WORKS DATA/ SCOPE OF WORK**

(To be prepared and incorporated by the Employer)

**Following Date has been provided by the Contractor**

**Name of Site Engineer:**  
**PEC License No.**  
**Contact No.**

**Name of Material Engineer:**  
**PEC License No.**  
**Contact No.**

**Name of Surveyor:**  
**(At least diploma holder)**  
**Contact No.**

Contractor seal



**SCHEDULE – C TO BID**

**WORKS TO BE PERFORMED BY SUBCONTRACTORS**

The bidder will do the work with his own forces except the work listed below which he intends to sub-contract. (Attach the Agreement copy)

Items of Works to be Sub-Contracted	Name and address of Sub-Contractors	Statement of similar works previously executed (attach evidence)
-------------------------------------	-------------------------------------	--

1. Company Name:  
Nature of Work award:  
Time of Completion  
Contact Person:

2. Company Name:  
Nature of Work award:  
Time of Completion  
Contact Person:

3. Company Name:  
Nature of Work award:  
Time of Completion  
Contact Person:

Contractor Seal

**Note:**

1. No change of Sub-Contractors shall be made by the bidder without prior approval of the Employer.
2. The truthfulness and accuracy of the statement as to the experience of Sub-Contractors is guaranteed by the bidder. The Employer's judgment shall be final as to the evaluation of the experience of Sub-Contractors submitted by the bidder.
3. Statement of similar works shall include description, location & value of works, year completed and name & address of the clients.

## **SCHEDULE – D TO BID**

### **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. The soft and hard copy of Program of work (i-e) Primavera or MS Project shall be provided before execution of the work.

## **SCHEDULE – E TO BID**

### **METHOD OF PERFORMING WORKS**

As per the requirement of Engineer the bidder is required to submit a narrative outlining the method of performing the Works. The narrative should indicate in detail and include but not be limited to:

- The sequence and methods in which he proposes to carry out the Works, including the number of shifts per day and hours per shift, he expects to work.
- A list of all major items of constructional and erectional plant, tools and vehicles proposed to be used in delivering/carrying out the Works at Site
- The procedure for installation of equipment and transportation of equipment and materials to the site.
- Organization chart indicating head office & field office personnel involved in management, supervision and engineering of the Works to be done under the Contract. (This is necessary to submit before execution of the work)

**SCHEDULE – F TO BID**

**(INTEGRITY PACT)**

Contract No. \_\_\_\_\_ Dated \_\_\_\_\_

Contract Value: \_\_\_\_\_

Contract Title: \_\_\_\_\_

M/s ----- 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, M/S----- represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

M/S----- 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.

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

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

Name of Employer: .....

Signature: .....

[Seal]

Name of Contractor: .....

Signature: .....

[Seal]

## **CONDITIONS OF CONTRACT**

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### CONDITIONS OF CONTRACT

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## **CONDITIONS OF CONTRACT**

### **1. GENERAL PROVISIONS**

#### **1.1 Definitions**

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

##### **The Contract**

- 1.1.1 “Contract” means the Contract Agreement and the other documents listed in the Contract Data.
- 1.1.2 “Specifications” means the document as listed in the Contract Data, including Employer’s requirements in respect of design to be carried out by the Contractor (if any), and any Variation to such document.
- 1.1.3 “Drawings” means the Employer’s drawings of the Works as listed in the Contract Data, and any Variation to such drawings.

##### **Persons**

- 1.1.4 “Employer” means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Contractor) any assignee.
- 1.1.5 “Contractor” means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Employer) any assignee.
- 1.1.6 “Party” means either the Employer or the Contractor.

##### **Dates, Times and Periods**

- 1.1.7 “Commencement Date” means the date fourteen (14) days after the date the Contract comes into effect or any other date named in the Contract Data.
- 1.1.8 “Day” means a calendar day
- 1.1.9 “Time for Completion” means the time for completing the Works as stated in the Contract Data (or as extended under Sub-Clause 7.3), calculated from the Commencement Date.

##### **Money and Payments**

- 1.1.10 “Cost” means all expenditure properly incurred (or to be incurred) by the Contractor, whether on or off the Site, including overheads and similar charges but does not include any allowance for profit.



## **Other Definitions**

- 1.1.11 “Contractor’s Equipment” means all machinery, apparatus and other things required for the execution of the Works but does not include Materials or Plant intended to form part of the Works.
- 1.1.12 “Country” means the Islamic Republic of Pakistan.
- 1.1.13 “Employer’s Risks” means those matters listed in Sub-Clause 6.1.
- 1.1.14 “Force Majeure” means an event or circumstance which makes performance of a Party’s obligations illegal or impracticable and which is beyond that Party’s reasonable control.
- 1.1.15 “Materials” means things of all kinds (other than Plant) to be supplied and incorporated in the Works by the Contractor.
- 1.1.16 “Plant” means the machinery and apparatus intended to form or forming part of the Works.
- 1.1.17 “Site” means the places provided by the Employer where the Works are to be executed, and any other places specified in the Contract as forming part of the Site.
- 1.1.18 “Variation” means a change which is instructed by the Engineer/Employer under Sub-Clause 10.1.
- 1.1.19 “Works” means any or all the works whether Supply, Installation, Construction etc. and design (if any) to be performed by the Contractor including temporary works and any variation thereof.
- 1.1.20 “Engineer” means the person notified by the Employer to act as Engineer for the purpose of the Contract and named as such in Contract Data.

## **1.2 Interpretation**

Words importing persons or parties shall include firms and organizations. Words importing singular or one gender shall include plural or the other gender where the context requires.

## **1.3 Priority of Documents**

The documents forming the Contract are to be taken as mutually explanatory of one another. If an ambiguity or discrepancy is found in the documents, the priority of the documents shall be in accordance with the order as listed in the Contract Data.

## **1.4 Law**

The law of the Contract is the relevant Law of Islamic Republic of Pakistan.

## 1.5 **Communications**

All Communications related to the Contract shall be in English language.

## 1.6 **Statutory Obligations**

The Contractor shall comply with the Laws of Islamic Republic of Pakistan and shall give all notices and pay all fees and other charges in respect of the Works.

## 2. **THE EMPLOYER**

### 2.1 **Provision of Site**

The Employer shall provide the Site and right of access thereto at the times stated in the Contract Data.

### 2.2 **Permits etc.**

The Employer shall, if requested by the Contractor, assist him in applying for permits, licenses or approvals which are required for the Works.

### 2.3 **Engineer's/Employer's Instructions**

The Contractor shall comply with all instructions given by the Employer or the Engineer, if notified by the Employer, in respect of the Works including the suspension of all or part of the Works.

### 2.4 **Approvals**

No approval or consent or absence of comment by the Engineer/Employer shall affect the Contractor's obligations.

## 3. **ENGINEER'S/EMPLOYER'S REPRESENTATIVES**

### 3.1 **Authorized Person**

The Employer shall appoint a duly authorized person to act for him and on his behalf for the purposes of this Contract. Such authorized person shall be duly identified in the Contract Data or otherwise notified in writing to the Contractor as soon as he is so appointed. In either case the Employer shall notify the Contractor, in writing, the precise scope of the authority of such authorized person at the time of his appointment.

### 3.2 **Engineer's/Employer's Representative**

The name and address of Engineer's/Employer's Representative is given in Contract Data. However the Contractor shall be notified by the

Engineer/Employer, the delegated duties and authority before the Commencement of Works.

#### **4. THE CONTRACTOR**

##### **4.1 General Obligations**

The Contractor shall carry out the Works properly and in accordance with the Contract. The Contractor shall provide all supervision, labor, Materials, Plant and Contractor's Equipment which may be required.

##### **4.2 Contractor's Representative**

The Contractor shall appoint a representative (Site Engineer with valid PEC License) at site on full time basis to supervise the execution of work and to receive instructions on behalf of the Contractor but only after obtaining the consent of the Employer for such appointment which consent shall not be unreasonable withheld by the Employer. Such authorized representative may be **substituted/replaced by the Contractor at any time during the Contract Period but only after obtaining the consent of the Employer as aforesaid.**

##### **4.3 Subcontracting**

The Contractor shall not subcontract the whole of the Works. **The Contractor shall not subcontract any part of the Works without the consent of the Employer.**

##### **4.4 Performance Security**

The Contractor shall furnish to the Employer within fourteen (14) days after receipt of Letter of Acceptance a Performance Security at the option of the bidder, in the form of Bank Draft or Bank for the amount and validity specified in Contract Data.

#### **5. DESIGN BY CONTRACTOR**

##### **5.1 Contractor's Design**

The Contractor shall carry out design to the extent specified, as referred to in the Contract Data. The Contractor shall promptly submit to the Engineer/Employer all designs prepared by him. Within fourteen (14) days of receipt the Engineer/Employer shall notify any comments or, if the design submitted is not in accordance with the Contract, shall reject it stating the reasons. The Contractor shall not construct any element of the Works designed by him within fourteen (14) days after the design has been submitted to the Engineer/Employer or which has been rejected. Design that has been rejected shall be promptly amended and resubmitted. The Contractor shall resubmit all designs commented on taking these comments into account as necessary. (5.1 clause Deleted and replaced, that as per demand of the Engineer contractor shall submit the design)

## 5.2 **Responsibility for Design**

The Contractor shall remain responsible for his bided design and the design under this Clause, both of which shall be fit for the intended purposes defined in the Contract and he shall also remain responsible for any infringement of any patent or copyright in respect of the same. The Engineer/Employer shall be responsible for the Specifications and Drawings.(5.2 clause Deleted and replaced, that as per demand of the Engineer contractor shall submit the design)

## 6. **EMPLOYER'S RISKS**

### 6.1 **The Employer's Risks**

The Employer's Risks are:-

- a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies, within the Country;
- b) Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war, within the Country;
- c) Riot, commotion or disorder by persons other than the Contractor's personnel and other employees including the personnel and employees of Sub-Contractors, affecting the Site and/or the Works;
- d) ionizing radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component of such an assembly, except to the extent to which the Contractor/Sub-Contractors may be responsible for the use of any radio-active material;
- e) Pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds;
- f) Use or occupation by the Employer of any part of the Works, except as may be specified in the Contract;
- g) late handing over of sites, anomalies in drawings, late delivery of designs and drawings of any part of the Works by the Employer's personnel or by others for whom the Employer is responsible;
- h) a suspension under Sub-Clause 2.3 unless it is attributable to the Contractor's failure; and
- i) physical obstructions or physical conditions other than climatic conditions, encountered on the Site during the performance of the Works, for which the Contractor immediately notified to the Employer and accepted by the Employer.

## **7. TIME FOR COMPLETION**

### **7.1 Execution of the Works**

The Contractor shall commence the Works on the Commencement Date and shall proceed expeditiously and without delay and shall complete the Works, subject to Sub-Clause 7.3 below, within the Time for Completion.

### **7.2 Programme**

Within the time stated in the Contract Data, the Contractor shall submit to the Engineer/Employer a programme for the Works in the form stated in the Contract Data.

### **7.3 Extension of Time**

The Contractor shall, within such time as may be reasonable under the circumstances, notify the Employer/Engineer of any event(s) falling within the scope of Sub-Clause 6.1 or 10.3 of these Conditions of Contract and request the Employer/Engineer for a reasonable extension in the time for the completion of Works. Subject to the aforesaid, the Employer/Engineer shall determine such reasonable extension in the time for the completion of Works as may be justified in the light of the details/particulars supplied by the Contractor in connection with the such determination by the Employer/Engineer within such period as may be prescribed by the Employer/Engineer for the same; and the Employer shall extend the Time for Completion as determined.

### **7.4 Late Completion**

If the Contractor fails to complete the Works within the Time for Completion, the Contractor's only liability to the Employer for such failure shall be to pay the amount stated in the Contract Data for each day for which he fails to complete the Works.

## **8. TAKING-OVER**

### **8.1 Completion**

The Contractor may notify the Engineer/Employer when he considers that the Works are complete.

### **8.2 Taking-Over Notice**

Within fourteen (14) days of the receipt of the said notice of completion from the Contractor the Employer/Engineer shall either takeover the completed Works and issue a Certificate of Completion to that effect or shall notify the Contractor his reasons for not taking-over the Works. While issuing the Certificate of Completion as aforesaid, the Employer/Engineer may identify any outstanding

items of work which the Contractor shall undertake during the Maintenance Period.

## **9. REMEDYING DEFECTS**

### **9.1 Remedying Defects**

The Contractor shall for a period stated in the Contract Data from the date of issue of the Certificate of Completion carry out, at no cost to the Employer, repair and rectification work which is necessitated by the earlier execution of poor quality of work or use of below specifications material in the execution of Works and which is so identified by the Employer/Engineer in writing within the said period. Upon expiry of the said period, and subject to the Contractor's faithfully performing his aforesaid obligations, the Employer/Engineer shall issue a Maintenance Certificate whereupon all obligations of the Contractor under this Contract shall come to an end.

Failure to remedy any such defects or complete outstanding work within a reasonable time shall entitle the Employer to carry out all necessary works at the Contractor's cost. However, the cost of remedying defects not attributable to the Contractor shall be valued as a Variation.

### **9.2 Uncovering and Testing**

The Engineer/Employer may give instruction as to the uncovering and/or testing of any work. Unless as a result of an uncovering and/or testing it is established that the Contractor's design, Materials, Plant or workmanship are not in accordance with the Contract, the Contractor shall be paid for such uncovering and/or testing as a Variation in accordance with Sub-Clause 10.2.

## **10. VARIATIONS AND CLAIMS**

### **10.1 Right to Vary**

The Employer/Engineer may issue Variation Order(s) in writing. Where for any reason it has not been possible for the Employer/Engineer to issue such Variations Order(s), the Contractor may confirm any verbal orders given by the Employer/Engineer in writing and if the same are not refuted/denied by the Employer/Engineer within seven (7) days of the receipt of such confirmation the same shall be deemed to be a Variation Orders for the purposes of this Sub-Clause.

### **10.2 Valuation of Variations**

Variations shall be valued as follows:

- a) at a lump sum price agreed between the Parties, or
- b) where appropriate, at rates in the Contract, or
- c) in the absence of appropriate rates, the rates in the Contract shall be used as the basis for valuation, or failing which

- d) at appropriate new rates, as may be agreed or which the Engineer/Employer considers appropriate, or
- e) if the Engineer/Employer so instructs, at day work rates set out in the Contract Data for which the Contractor shall keep records of hours of labor and Contractor's Equipment, and of Materials, used.

### 10.3 **Early Warning**

The Contractor shall notify the Engineer/Employer in writing as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment.

To the extent of the Contractor's failure to notify, which results to the Engineer/Employer being unable to keep all relevant records or not taking steps to minimize any delay, disruption, or Cost, or the value of any Variation, the Contractor's entitlement to extension of the Time for Completion or additional payment shall be reduced/rejected.

### 10.4. **Valuation of Claims**

If the Contractor incurs Cost as a result of any of the Employer's Risks, the Contractor shall be entitled to the amount of such Cost. If as a result of any Employer's Risk, it is necessary to change the Works, this shall be dealt with as a Variation subject to Contractor's notification for intention of claim to the Engineer/Employer within fourteen (14) days of the occurrence of cause.

### 10.5 **Variation and Claim Procedure**

The Contractor shall submit to the Engineer/Employer an itemized make-up of the value of variations and claims within twenty eight (28) days of the instruction or of the event giving rise to the claim. The Engineer/Employer shall check and if possible agree the value. In the absence of agreement, the Employer shall determine the value.

## 11. **CONTRACT PRICE AND PAYMENT**

### 11.1 (a) **Terms of Payments**

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract, shall , subject to Clause 47, be paid by the Employer to the Contractor within 30 days after such Interim Payment Certificate has been jointly verified by Employer and Contractor, or, in the case of the Final Certificate referred to in Sub Clause 60.8, within 60 days after such Final Payment Certificate has been jointly verified by Employer and Contractor; Provided that the Interim Payment shall be caused in 42 days and Final Payment in 60 days in case of foreign funded project. In the event of the failure of the Employer to make payment within the times stated, the Employer shall pay to the Contractor compensation at the 28 days rate of KIBOR+2% per annum in local currency and LIBOR+1% for foreign currency, upon all sums unpaid from the date by which the

same should have been paid. The provisions of this Sub-Clause are without prejudice to the Contractor's entitlement under Clause 69.

(b) **Valuation of the Works**

The Works shall be valued as provided for in the Contract Data, subject to Clause 10.

11.2 **Monthly Statements**

The Contractor shall be entitled to be paid at monthly intervals:

- a) the value of the Works executed; and
- b) The percentage of the value of Materials and Plant reasonably delivered to the Site, as stated in the Contract Data, subject to any additions or deductions which may be due.

The Contractor shall submit each month to the Engineer/Employer a statement showing the amounts to which he considers himself entitled.

11.3 **Interim Payments**

Within a period not exceeding seven (7) days from the date of submission of a statement for interim payment by the Contractor, the Engineer shall verify the same and within a period not exceeding thirty (30) days from the said date of submission by the Contractor, the Employer shall pay to the Contractor the sum verified by the Engineer less retention money at the rate stated in the Contract Data.

11.4 **Retention**

Retention money shall be paid by the Employer to the Contractor within fourteen (14) days after either the expiry of the period stated in the Contract Data, or the remedying of notified defects, or the completion of outstanding work, all as referred to in Sub-Clause 9.1, whichever is the later.

11.5 **Final Payment**

Within twenty one (21) days from the date of issuance of the Maintenance Certificate the Contractor shall submit a final account to the Engineer to verify and the Engineer shall verify the same within fourteen (14) days from the date of submission and forward the same to the Employer together with any documentation reasonably required to enable the Employer to ascertain the final contract value.

Within sixty (60) days from the date of receipt of the verified final account from the Engineer, the Employer shall pay to the Contractor any amount due to the Contractor. While making such payment the Employer may, for reasons to be given to the Contractor in writing, withhold any part or parts of the verified amount.



## 11.6 **Currency**

Payment shall be in the currency stated in the Contract Data.

## 12. **DEFAULT**

### 12.1 **Default by Contractor**

If the Contractor abandons the Works, refuses or fails to comply with a valid instruction of the Engineer/Employer or fails to proceed expeditiously and without delay, or is, despite a written complaint, in breach of the Contract, the Employer may give notice referring to this Sub-Clause and stating the default.

If the Contractor has not taken all practicable steps to remedy the default within fourteen (14) days after receipt of the Employer's notice, the Employer may by a second notice given within a further twenty one (21) days, terminate the Contract. The Contractor shall then demobilize from the Site leaving behind any Contractor's Equipment which the Employer instructs, in the second notice, to be used for the completion of the Works at the risk and cost of the Contractor.

### 12.2 **Default by Employer**

If the Employer fails to pay in accordance with the Contract, or is, despite a written complaint, in breach of the Contract, the Contractor may give notice referring to this Sub-Clause and stating the default. If the default is not remedied within fourteen (14) days after the Employer's receipt of this notice, the Contractor may suspend the execution of all or parts of the Works.

If the default is not remedied within twenty eight (28) days after the Employer's receipt of the Contractor's notice, the Contractor may by a second notice given within a further twenty one (21) days, terminate the Contract. The Contractor shall then demobilize from the Site.

### 12.3 **Insolvency**

If a Party is declared insolvent under any applicable law, the other Party may by notice terminate the Contract immediately. The Contractor shall then demobilize from the Site leaving behind, in the case of the Contractor's insolvency, any Contractor's Equipment which the Employer instructs in the notice is to be used for the completion of the Works.

### 12.4 **Payment upon Termination**

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) any sums to which the Employer is entitled,

- c) if the Employer has terminated under Sub-Clause 12.1 or 12.3, the Employer shall be entitled to a sum equivalent to twenty percent (20%) of the value of parts of the Works not executed at the date of the termination, and
- d) if the Contractor has terminated under Sub-Clause 12.2 or 12.3, the Contractor shall be entitled to the cost of his demobilization together with a sum equivalent to ten percent (10%) of the value of parts of the Works not executed at the date of termination.

The net balance due shall be paid or repaid within twenty eight (28) days of the notice of termination.

## **13. RISKS AND RESPONSIBILITIES**

### **13.1 Contractor's Care of the Works**

Subject to Sub-Clause 9.1, the Contractor shall take full responsibility for the care of the Works from the **Commencement Date until the date of the Employer's/Engineer's issuance of Certificate of Completion under Sub-Clause 8.2. Responsibility shall then pass to the Employer.** If any loss or damage happens to the Works during the above period, the Contractor shall rectify such loss or damage so that the Works conform to the Contract.

Unless the loss or damage happens as a result of any of the Employer's Risks, the Contractor shall indemnify the Employer, or his agents against all claims loss, damage and expense arising out of the Works.

### **13.2 Force Majeure**

If Force Majeure occurs, the Contractor shall notify the Engineer/Employer immediately. If necessary, the Contractor may suspend the execution of the Works and, to the extent agreed with the Employer demobilize the Contractor's Equipment.

If the event continues for a period of eighty four (84) days, either Party may then give notice of termination which shall take effect twenty eight (28) days after the giving of the notice.

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) the cost of his demobilization, and
- c) less any sums to which the Employer is entitled.

The net balance due shall be paid or repaid within thirty five (35) days of the notice of termination.

## **14. INSURANCE**

### **14.1 Arrangements**

The Contractor shall, prior to commencing the Works, effect insurances of the types, in the amounts and naming as insured the persons stipulated in the Contract Data except for items (a) to (e) and (i) of the Employer's Risks under Sub-Clause 6.1. The policies shall be issued by insurers and in terms approved by the Employer. The Contractor shall provide the Engineer/Employer with evidence that any required policy is in force and that the premiums have been paid.

### **14.2 Default**

If the Contractor fails to effect or keep in force any of the insurances referred to in the previous Sub-Clause, or fails to provide satisfactory evidence, policies or receipts, the Employer may, without prejudice to any other right or remedy, effect insurance for the cover relevant to such as a default and pay the premiums due and recover the same plus a sum in percentage given in Contractor Data from any other amounts due to the Contractor.

## **15. RESOLUTION OF DISPUTES**

### **15.1 Engineer's Decision**

If a dispute of any kind whatsoever arises between the Employer and the Contractor in connection with the Works, the matter in dispute shall, in the first place, be referred in writing to the Engineer, with a copy to the other party. Such reference shall state that it is made pursuant to this Clause. No later than the twenty eight (28) days after the day on which he received such reference, the Engineer shall give notice of his decision to the Employer and the Contractor.

Unless the Contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the Work with all due diligence, and the Contractor and the Employer shall give effect forthwith to every such decision of the Engineer unless and until the same shall be revised, as hereinafter provided in an arbitral award.

### **15.2 Notice of Dissatisfaction**

If a Party is dissatisfied with the decision of the Engineer or if no decision is given within the time set out in Sub-Clause 15.1 here above, the Party may give notice of dissatisfaction referring to this Sub-Clause within fourteen (14) days of receipt of the decision or the expiry of the time for the decision. If no notice of dissatisfaction is given within the specified time, the decision shall be final and binding on the Parties. If notice of dissatisfaction is given within the specified time, the decision shall be binding on the Parties who shall give effect to it without delay unless and until the decision of the Engineer is revised by an arbitrator.

### 15.3 **Arbitration**

A dispute which has been the subject of a notice of dissatisfaction shall be finally settled as per provisions of Arbitration Act 1940 (Act No. X of 1940) and Rules made there under and any statutory modifications thereto. Any hearing shall be held at the place specified in the Contract Data and in the language referred to in Sub-Clause 1.5.

## 16 **INTEGRITY PACT**

### 16.1 **If the Contractor or any of his Sub-Contractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Schedule-F to his Bid, then the Employer shall be entitled to:**

- (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Sub-Contractors, agents or servants;
- (b) terminate the Contract; and
- (c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Sub-Contractors, agents or servants.

On termination of the Contract under Sub-Para (b) of this Sub-Clause, the Contractor shall demobilize from the Site leaving behind Contractor's Equipment which the Employer instructs, in the termination notice, to be used for the completion of the Works at the risk and cost of the Contractor. Payment upon such termination shall be made under Sub-Clause 12.4, in accordance with Sub-Para (c) thereof, after having deducted the amounts due to the Employer under Sub-Para (a) and (c) of this Sub-Clause.

## CONTRACT DATA

(Note: Except where otherwise indicated, all Contract Data should be filled in by the Employer prior to issuance of the Bidding Documents.)

### Sub-Clauses of

#### Conditions of Contract

1.1.3 Employer's Drawings, if any  
(Drawings issued with Work Order)

1.1.4 **The Employer** means  
Quaid-e-Awam University of Engineering Science & Technology, Nawabshah.

1.1.5 **The Contractor** means  
\_\_\_\_\_  
\_\_\_\_\_

1.1.7 **Commencement Date** means the date of issue of Engineer's Notice to Commence which shall be issued within fourteen (14) days of the signing of the Contract Agreement.

1.1.9 **Time for Completion** 18 months

1.1.20 **Engineer**  
Executive Engineer

1.3 **Documents forming the Contract listed in the order of priority:**

- (a) The Contract Agreement
- (b) Letter of Acceptance
- (c) The completed Form of Bid
- (d) Contract Data
- (e) Conditions of Contract
- (f) The completed Schedules to Bid including Schedule of Prices/ BOQ
- (g) The Drawings,
- (h) The Specifications
- (i) \_\_\_\_\_
- (j) \_\_\_\_\_

2.1 **Provision of Site:** On the Commencement Date -----/-----/2022

3.1 **Authorized person :** -----

3.2 **Name and address of Engineer's/Employer's representative**

Engr. Hammud ur Rehman Kazi, Project Coordinator  
QUEST, Nawabshah

4.4 **Performance Security: 10%**

Amount \_\_\_\_\_

Validity \_\_\_\_\_

5.1 **Requirements for Contractor's design (if any):**

Specification Clause No's (As Per demand of the Employer)

- 7.2 **Programme:** Shall be submitted before commencement.  
**Time for submission:** Within fourteen (14) days of the Commencement Date.  
**Form of programme:** \_\_\_\_\_ (Bar Chart/CPM/PERT or other)
- 7.4 Amount payable due to failure to complete shall be 0.1% per day up to a maximum of (10%) \* of sum stated in the Letter of Acceptance
- 9.1 **Period for remedying defects**  
30 Days
- 10.2 **Variation procedure:**  
Day work rates \_\_\_\_\_  
\_\_\_\_\_ (as per current policy of PEC)
- 11.1 (a) **Terms of Payments**  
Payment of Contract Price shall be made in the following manners:  
i) 10% mobilization advance shall be paid on submission of bank guarantee from scheduled bank of Pakistan by the Employer to the Contractor and the same will be recovered at the rate of 15% of work done from each Interim Payment.  
ii) Ninety (90%) of interim payment shall be made and (10%) ten percent will be retained as retention money.  
iii) Fifty percent (50%) of retention money shall be paid on the date of issuance of taking-over certificate as per Clause 8.2 of Conditions of Contract, and  
iv) Balance Fifty percent (50%) of retention money shall be paid in accordance with Clause 11.4 of Conditions of Contract, issuance of completion certificate and expiry of defect liability period.
- 11.1 (a) **Monthly Interim Payment** will be submitted by the Contractor for verification of the Employer/Engineer.
- 11.2 (b) **Secured Advance**  
Following Percentages will be paid on the value of Materials and Plant and same will be recovered on the actual incorporation in the works:  
Materials eighty (80%) max  
Plant ninety (90%) max
- 11.3 **Interim Payment** will be released within (30) thirty days from the date of due verification of the Engineer.
- 11.4 **Percentage of retention:** Balance five (05%) of retention money will be released on the issuance of completion certificate and expiry of defect liability period.
- 11.6 **Currency of payment:** Pak. Rupees
- 14.1 **Insurances: Deleted because of small work.**
- 15.3 **Arbitration**  
Place of Arbitration: \_\_\_\_\_

## **STANDARD FORMS**

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

Guarantee No. \_\_\_\_\_  
Executed on \_\_\_\_\_

(Letter by the Guarantor to the Employer)

Name of Guarantor (Scheduled Bank in Pakistan) with address:

\_\_\_\_\_

Name of Principal (Bidder) with address:

\_\_\_\_\_

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

\_\_\_\_\_

Bid Reference No. \_\_\_\_\_ Date of Bid \_\_\_\_\_

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

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has submitted the accompanying Bid numbered and dated as above for \_\_\_\_\_ (Particulars of Bid) to the said Employer; and

WHEREAS, the Employer has required as a condition for considering the said Bid that the Principal furnishes a Bid Security in the above said sum to the Employer, conditioned as under:

- (1) that the Bid Security shall remain valid for a period of twenty eight (28) days beyond the period of validity of the bid;
- (2) that in the event of;
  - (a) the Principal withdraws his Bid during the period of validity of Bid, or
  - (b) the Principal does not accept the correction of his Bid Price, pursuant to Sub-Clause 16.4 (b) of Instructions to Bidders, or
  - (c) failure of the successful bidder to
    - (i) furnish the required Performance Security, in accordance with Sub-Clause IB-21.1 of Instructions to Bidders, or
    - (ii) sign the proposed Contract Agreement, in accordance with Sub-Clauses IB-20.2 & 20.3 of Instructions to Bidders,



the entire sum be paid immediately to the said Employer for delayed completion and not as penalty for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract Agreement with the said Employer in accordance with his Bid as accepted and furnish within fourteen (14) days of receipt of Letter of Acceptance, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

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

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Guarantor shall pay without objection the sum 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 the instrument under its seal on the date indicated above, the name and seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

\_\_\_\_\_  
Guarantor (Bank)

Witness:

1. Signature \_\_\_\_\_

1. \_\_\_\_\_

2. Name \_\_\_\_\_

\_\_\_\_\_  
Corporate Secretary (Seal)

3. Title \_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_  
(Name, Title & Address)

Corporate Guarantor (Seal)

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

Guarantee No. \_\_\_\_\_  
Executed on \_\_\_\_\_

(Letter by the Guarantor to the Employer)

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

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

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of 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 9, Remedying Defects, 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 defenses 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.

	_____ Guarantor (Bank)
Witness:	
1. _____	1. Signature _____
_____	2. Name _____
Corporate Secretary (Seal)	3. Title _____
2. _____	
_____	_____ Corporate Guarantor (Seal)
(Name, Title & Address)	

**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 Rupees \_\_\_\_\_ (Rs \_\_\_\_\_ ) 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, \_\_\_\_\_  
(Scheduled Bank in Pakistan or Insurance Company acceptable to the Employer)  
(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 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, of which the Employer shall be the sole and final judge, 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 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 Rupees \_\_\_\_\_ (Rs \_\_\_\_\_).

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 payments from Interim Payment Certificates of the Contractor provided that the Guarantor agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted.

GUARANTOR

- 1. Signature \_\_\_\_\_
- 2. Name \_\_\_\_\_
- 3. Title \_\_\_\_\_

WITNESS

1. \_\_\_\_\_  
\_\_\_\_\_  
Corporate Secretary (Seal)

2. \_\_\_\_\_  
(Name Title & Address)

\_\_\_\_\_  
Corporate Guarantor(Seal)

## FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the \_\_\_\_\_ day of \_\_\_\_\_ 2020 \_\_\_\_\_ between \_\_\_\_\_ (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 \_\_\_\_\_ 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 after incorporating addenda, if any except those parts relating to Instructions to Bidders, shall be deemed to form and be read and construed as part of this Agreement, viz:
  - (a) The Letter of Acceptance;
  - (b) The completed Form of Bid alongwith Schedules to Bid;
  - (c) Conditions of Contract & Contract Data;
  - (d) The priced Schedule of Prices;
  - (e) The Specifications; and
  - (f) The Drawings
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 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 Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor

\_\_\_\_\_  
(Seal)

Signature of the Employer

\_\_\_\_\_  
(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

\_\_\_\_\_

(Name, Title and Address)

Witness:

\_\_\_\_\_

(Name, Title and Address)

**FORM OF BANK GUARANTEE FOR ADVANCE PAYMENT  
(Not Applicable)**

Guarantee No. \_\_\_\_\_

Executed on \_\_\_\_\_

(Letter by the Guarantor to the Employer)

WHEREAS the \_\_\_\_\_ (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 Rs. \_\_\_\_\_ 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 expire not later than \_\_\_\_\_



by which date we must have received any claims by registered letter, telegram, telex or telefax.

It is understood that you will return this Guarantee to us on expiry or after settlement of the total amount to be claimed hereunder.

\_\_\_\_\_  
Guarantor (Scheduled Bank)

Witness:

1. \_\_\_\_\_

\_\_\_\_\_  
Corporate Secretary (Seal)

2. \_\_\_\_\_

\_\_\_\_\_  
(Name, Title & Address)

1. Signature \_\_\_\_\_

2. Name \_\_\_\_\_

3. Title \_\_\_\_\_

\_\_\_\_\_  
Corporate Guarantor (Seal)

**Technical Evaluation Criteria**

**BG-1**

**Appendix-G to Bid**

**LIST OF MAJOR EQUIPMENT – RELATED ITEMS**

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

**LIST OF MAJOR EQUIPMENT**

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

**Equipment:**

The Bidder must demonstrate that it has the key equipment listed hereafter:

No.	PLANT/EQUIPMENT				
	Equipment Type and Characteristics	Total Nos. available	Under Utilization on other projects, if applicable	Nos. waiting to be shifted to new project(s)	Min. Number Required for this Project
1					
2					
3					
4					
5					
6					

**FINANCIAL COMPETENCE AND ACCESS TO FINANCIAL RESOURCES**

The financial position of the bidder shall be checked as per following details:

**1. SOUNDNESS AND ACCESS TO FINANCIAL RESOURCES:**

“The Bidder must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credits, and other financial means, other than any contractual advance payments, to meet the financial requirements of the contract in the amount of his bid. As a minimum the Bidder must show that his resources, in term of at least his latest years working capital and line of credits, will be adequate to cover an amount equivalent to his bid price and current work commitments i.e.

[5 x working capital + Project specific lines of credit\*– 40% of current contract commitments] > Bid price.

Working capital is the difference between current assets and current liabilities and measures the firm’s ability to generate cash in the short term.”

\*Any line of credit indicated for this (tendered) project needs to have been certified by the Bank and the said certificate is enclosed with this Appendix.

**2. AVERAGE ANNUAL CONSTRUCTION TURNOVER**

<u>Criteria</u>	<u>Bidders’ to list their certified yearly turnover for last 5 years</u>
Minimum average annual construction turnover at least twice of the estimated cost Calculated as total certified payments received for contracts in progress or completed, within the last 3 years.	

**PAST PERFORMANCE, CURRENT COMMITMENT, QUALIFICATION AND EXPERIENCE**

**1) General Construction Experience**

<b>Requirement</b>	<b>Bidder to Provide details</b>	<b>Role</b>
Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last 5 years prior to the bid submission deadline.		

**2) Contracts of Similar Size and Nature**

<b>Requirement</b>	<b>Bidder to provide specific details</b>	<b>Role</b>
Participation as contractor, management contractor, or subcontractor, in at least 2 Contracts within the last 5 years, each with a value of at least twice of estimated cost of the bid that has been successfully or is substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as indicated in these Bidding Documents.		

### 3) Personnel

No.	Position	Total No in the Firm	Minimum requirement for the Project*	Total Work Experience [years]	Nos. already posted on other projects	Nos. being allocated for this project	Professional credits points*
1							
2							
3							
4							
5							

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

## 4) Data regarding past performance and present commitment of the Bidders:

Present Commitment								
Sr No.	Name of ongoing project(s)	Name of Employer	Date of		Progress		Remarks regarding delays if applicable	Satisfactory performance certificate from employer (Minimum requirement)
			Start	Completion	%Age as planned	%Age at actual		
1.								
2.								
3.								
4.								
5.								

Number of projects that a bidder can undertake to construct as per PEC works by laws is aggregate Professional Credit Points (PCPs) authorized for a category of licensee divided by the PCP of construction and capital cost of single project under consideration.

For example C-3 category contractor should have a minimum of 20 PCPs as per table 'A' below from the Bye Laws/S.R.O. 568(I)/87 at all times and the PCP of individual project (costing say 400 million rupees) is 5 calculated on the basis of 1 PCP for every 20 million project cost. It means the contractor can have ongoing projects up to 4 ( $20 \div 5$ ) number of this size.

Table A:-

Contractor's Category	Limit of Construction Cost of Project (Million rupees )	Average annual value of work for last 3 years (million rupees)	Largest project value during last 5 years (Million rupees)	Paid up capital or net/capital worth (million rupees)	Minimum requirement of professional credit points (PCP credit)
C-3	Up to 400	10	20	5	20

**Note \*Electrical inspector license of concerned region and relevant code of PEC is mandatory for Sr.3 & 4 of NIT.**

The evaluation of the personnel shall be carried out as per PEC Engineering Bye Laws 1987 and review his qualification accordingly. PCP/ minimum requirement of staff required for the contractor's works in hand should be in accordance with the provisions of PEC's works byelaws. For example, subject to the other conditional points and limits, a single registered Engineer is given 1 PCP for each year of experience in the construction and operation of engineering works (subject to a minimum of 10 PCPs and maximum of 30 PCPs). The contractor setup has to meet the minimum PCP requirements all time during the currency of the contract for engineering staff to be deployed/ already deployed.

**\*All other mandatory documents are mentioned in the NIT.**

**FORMS**

**BID SECURITY  
PERFORMANCE SECURITY  
CONTRACT AGREEMENT  
MOBILIZATION ADVANCE GUARANTEE/BOND  
AND  
INDEMNITY BOND FOR SECURED ADVANCE**



**BID SECURITY**  
**(Bank Guarantee)**

Security Executed on \_\_\_\_\_  
(Date)

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

Name of Principal (Bidder) with Address \_\_\_\_\_

Penal Sum of Security Rupees . \_\_\_\_\_ (Rs. \_\_\_\_\_)

Bid Reference No. \_\_\_\_\_

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

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

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

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

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

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

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

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

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

SURETY (Bank)

WITNESS:

Signature \_\_\_\_\_

1. \_\_\_\_\_

Name \_\_\_\_\_

\_\_\_\_\_

Title \_\_\_\_\_

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2. \_\_\_\_\_

\_\_\_\_\_  
Name, Title & Address

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

No. \_\_\_\_\_ Guarantee  
\_\_\_\_\_ Executed on  
\_\_\_\_\_ Expiry date  
\_\_\_\_\_

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with address: \_\_\_\_\_  
(Scheduled Bank in Pakistan)

Name of Principal (Contractor) with address: \_\_\_\_\_

Penal Sum of Security (express in words and figures) \_\_\_\_\_

Letter of Acceptance No. \_\_\_\_\_ Dated \_\_\_\_\_

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

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

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

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

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

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

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

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

## FORM OF CONTRACT AGREEMENT

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

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

NOW this Agreement witnesseth as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda / Clarification as agreed or otherwise, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Contract, viz:
  - (a) The Contract Agreement;
  - (b) The Letter of Acceptance;
  - (c) The completed Form of Bid;
  - (d) Special Stipulations (Appendix-A to Bid);
  - (e) The Particular Conditions of Contract – Part II;
  - (f) The General Conditions – Part I;
  - (g) The priced Bill of Quantities (Appendix-D to Bid);
  - (h) The completed Appendices to Bid (B, C, E to O);
  - (i) The Drawings;
  - (j) The Specifications.
  - (k) \_\_\_\_\_ (any other)
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

Signature of the Contactor

\_\_\_\_\_  
(Seal)

Signature of Employer

\_\_\_\_\_  
(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

\_\_\_\_\_

(Name, Title and Address)

Witness:

\_\_\_\_\_

(Name, Title and Address)

**INDEMNITY BOND  
FOR SECURED ADVANCE  
AGAINST MATERIALS BROUGHT AT SITE**

(ON RS.40 NONJUDICIAL STAMP PAPER)

This Deed of Indemnity is issued by M/s. \_\_\_\_\_  
\_\_\_\_\_ (Name of the Contractor) in favour  
of M/s. \_\_\_\_\_ (Name of the Employer).

**Whereas** \_\_\_\_\_ (hereinafter called the Employer) has paid the Secured Advance against the cost of material through any Bank or like agency by any other method by virtue of the terms of the contract existing between the parties. The details of the material and their price for which secured advance is being sought for the period \_\_\_\_\_ till consumption of the material is as under:-

- 1. \_\_\_\_\_ at Rs. \_\_\_\_\_ per \_\_\_\_\_ = Rs.
- 2. \_\_\_\_\_ at Rs. \_\_\_\_\_ per \_\_\_\_\_ = Rs.
- 3. \_\_\_\_\_ at Rs. \_\_\_\_\_ per \_\_\_\_\_ = Rs.
- 4. \_\_\_\_\_ at Rs. \_\_\_\_\_ per \_\_\_\_\_ = Rs.

**THEREFORE THIS DEED OF INDEMNITY WITNESSETH AS FOLLOWS:**

I/We \_\_\_\_\_ of M/s. \_\_\_\_\_ do hereby indemnify M/s \_\_\_\_\_ for all losses due to thefts, arson, pilferage, loss due to flood and inundation, shortage, deterioration and depreciation etc. through any act of Man or God or slump in the Market of any or all the materials financed or paid by the Employer on our request for financing payment against material.

I/We \_\_\_\_\_ shall indemnify \_\_\_\_\_ against any or all claims, action damages arising out of or resulting to the said material.

I/We \_\_\_\_\_ further declare that we will faithfully abide by the above declaration and solemnly affirm that we will not remove, sell, pilferage any of the materials against which M/s \_\_\_\_\_ has paid us such a secured advance and will not pledge the same with any Bank, Finance Corporation, Firm, Company, Individual or the like agency or create any change whereon in any from what so ever.

I/We \_\_\_\_\_ do hereby also declare that in the event of my/our infringement of the declaration made above \_\_\_\_\_ will be entitled to forfeit all such material and also proceed against me/us according to the relevant clause pertaining to breach of contract and further invoke the power or seek any remedies secured of \_\_\_\_\_ under the contract Agreement signed with us or otherwise available under law.

Place \_\_\_\_\_ Dated \_\_\_\_\_

Contractor \_\_\_\_\_

## [Notes on the Conditions of Contract]

The Conditions of Contract comprise two parts:

- (a) **Part I - General Conditions of Contract**
- (b) **Part II - Particular Conditions of Contract**

Over the years, a number of “model” General Conditions of Contract have evolved. The one used in these Standard Bidding Documents was prepared by the International Federation of Consulting Engineers (Federation Internationale des Ingenieurs-Conseils, or FIDIC), and is commonly known as the FIDIC Conditions of Contract. (The used version is the fourth edition, 1987, reprinted in 1992 with further amendments).

The FIDIC Conditions of Contract have been prepared for an ad measurement (unit price or unit rate) type of contract, and cannot be used without major modifications for other types of contract, such as lump sum, turnkey, or target cost contracts.

The standard text of the General Conditions of Contract chosen must be retained intact to facilitate its reading and interpretation by bidders and its review by the Client. Any amendments and additions to the General Conditions, specific to the contract in hand, should be introduced in the Particular Conditions of Contract.

The use of standard conditions of contract for all civil Works will ensure comprehensiveness of coverage, better balance of rights or obligations between Employer and Contractor, general acceptability of its provisions, and savings in time and cost for bid preparation and review, leading to more economic prices.

The FIDIC Conditions of Contract are copyrighted and may not be copied, faxed, or reproduced. Without taking any responsibility of its being accurate, Pakistan Engineering Council with prior consent of FIDIC Secretariat, has reproduced herein the FIDIC General **Conditions of Contract for reference purpose only which cannot be used by the users** for preparing their bidding documents. The bidding document may include a purchased copy, the cost of which can be retrieved as part of the selling price of the bidding document. Alternatively, the FIDIC Conditions of Contract can be referred to in the bidding documents, and the bidders are advised to obtain copies directly from FIDIC.\*

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As per rules, Contractor will be required to purchase the documents directly from the FIDIC.

FIDIC Conditions of Contract can be obtained from:

FIDIC Secretariat

P.O. Box 86

1000 Lausanne 12

Switzerland

e-mail: [fidic.pub@fidic.org](mailto:fidic.pub@fidic.org) – [FIDIC.org/book](http://FIDIC.org/book)

## **SPECIFICATIONS**

**(Will be Provided Before Commencement of Work as Part – II)**

## MARKING CRITERIA

### a) General Experience

Sr. No.	Description	Marks Assigned	Explanation for Marks Obtained
a)	Projects of similar nature and complexity Completed in last ten years. (Each of min. 8-Storeyed Building Work) No Marks are awarded for works less than specified limits.	15	<ul style="list-style-type: none"> <li>12 Marks are given if the contractor has completed at least 3 projects of similar nature in last ten years.</li> <li>For less than 3 projects completed use the following weightage. <math>12 \times (A/3)</math></li> <li>For more than 3 projects but less than 6 projects completed use the following weightage. <math>12 + (A/6) \times 3</math></li> </ul> <p>A = No of projects of similar nature Completed in last ten years</p> <ul style="list-style-type: none"> <li>Full Marks are given in case of 6 projects or more.</li> </ul>
b)	Projects of similar nature and complexity in-hand during last ten years. (Each of min. 8-Storeyed Building Work) No Marks are awarded for works less than specified limits.	10	<ul style="list-style-type: none"> <li>8 Marks are given if the contractor has 3 projects of similar nature in-hand.</li> <li>For less than 3 projects in-hand use the following weightage. <math>8 \times (A/3)</math></li> <li>For more than 3 projects but less than 6 projects in-hand use the following weightage. <math>8 + (A/6) \times 2</math></li> </ul> <p>A = No of projects of similar nature In-hand during last ten years</p> <ul style="list-style-type: none"> <li>Full Marks are given in case of 6 projects or more.</li> </ul>
c)	Electrical works carried out during last five years by the Sub-Contractor/JV Partner.	5	<ul style="list-style-type: none"> <li>4 Marks are given if the contractor has completed at least 3 projects of similar nature in</li> </ul>

Sr. No.	Description	Marks Assigned	Explanation for Marks Obtained
			<p>last five years.</p> <ul style="list-style-type: none"> <li>For less than 3 projects completed use the following weight age. 4 x (A/3)</li> <li>For more than 3 projects but less than 6 projects completed use the following weightage. 4+(A/6) x1</li> </ul> <p>A = No of projects of similar nature Completed in last five years</p> <ul style="list-style-type: none"> <li>Full Marks are given in case of 6 projects or more.</li> </ul>
d)	Enlistment record with Government Organizations & other agencies	5	<ul style="list-style-type: none"> <li>1 Mark for each enlistment up to maximum of five enlistments.</li> </ul>
<b>Total Marks Allocated</b>			<b>35</b>

b) Personnel Capabilities

Requirement of Employer/User will be varied from Project to Project. However following factors may be used as a guideline:

Sr. No.	Description	Marks Assigned	Explanation for Marks Obtained
i)	Graduate Engineers registered with Pakistan Engineering Council (PEC)	9	<p><b><u>Experience (3-Marks) :</u></b></p> <ul style="list-style-type: none"> <li>3 Marks will be given if the individual experience of at least 4 no. of Graduate Engineers registered with (PEC) (professional) is equal to 15 years or above.</li> <li>For less than 4 no of Graduate Engineers registered with (PEC) having individual experience of 15 years, marks will be given as per following formulas: = (A/4) * 3</li> </ul> <p>A = No. of Engineers having individual experience of 15 years or above.</p> <p><b>Strength of Engineers (6 Marks)</b></p>

Sr. No.	Description	Marks Assigned	Explanation for Marks Obtained
			<ul style="list-style-type: none"> <li>• 6 Marks will be given if the total no. of Engineers registered with PEC are 15 nos. or above.</li> <li>• For less than 15 no of B.Sc Engineers registered with PEC marks will be given as per following formulas:  <math display="block">= (A/15) * 6</math> A = No. of Engineers</li> </ul>
ii)	Associates Engineers (DAE) or skilled labor	6	<p><b><u>Experience (2-Marks) :</u></b></p> <ul style="list-style-type: none"> <li>• 2 Marks will be given if the individual experience of at least 8 no. of Associates Engineers (DAE) or skilled labor is equal to 10 years or above.</li> <li>• For less than 8 no of Associates Engineers (DAE) or skilled labor having individual experience of 10 years, marks will be given as per following formulas:  <math display="block">= (A/8) * 2</math> A = No. of Associates Engineers (DAE) or skilled labor</li> </ul> <p><b><u>Strength of Associate Engineers (4 Marks)</u></b></p> <ul style="list-style-type: none"> <li>• 4 Marks will be given if the total no. of Associates Engineers (DAE) or skilled labor are 20 nos. or above.</li> <li>• For less than 20 no of Associates Engineers (DAE) or skilled labor marks will be given as per following formulas:  <math display="block">= (A/20) * 4</math> A = No. of Associates Engineers (DAE) or skilled labor</li> </ul>
<b>Total Marks Allocated</b>			<b>15</b>

c). Equipment Capability

Critical equipment required for the Project shall be specified by the User/Employer under para 3.2.4 (a). High value equipment should be an option to purchase, lease or hire.

Sr. No.	Description	Marks Assigned	Explanation for Marks Obtained
1	Batching Plant (30cuM/hr Cap.)	20	<ul style="list-style-type: none"> <li>8 Marks for each equipment are given if the Contractor meets the minimum requirements given in the prequalification document for each item.</li> <li>If the available quantity of each equipment is less than specified limit give weightage as. 8 x (A / Required Quantity)</li> <li>If the available quantity of each equipment is more than the minimum equipment requirement full marks will be given.</li> </ul> <p>A = Available quantity of each equipment of each Item.</p> <ul style="list-style-type: none"> <li>Total Marks = (Marks Obtained/120) * 20</li> </ul>
2	Concrete Pump		
3	Crane Mobile (30 Ton Cap.)		
4	Crane Tower (30 M Boom)		
5	Dumper Trucks		
6	Shower/ Loader/ Backhoe		
7	Steel cutting & Bending Machine		
8	Concrete Transit Mixer (6 cuM/hr)		
9	Cabin Hoist (1500 Kg Cap.)		
10	Air Compressor (15 HP Cap.)		
11	Form Work		
12	Scaffolding Pipe		
<b>Total Marks Allocated</b>			<b>20</b>

d)

Financial Soundness

- For Financial Status assessment, the Applicants may be required to submit Audited financial statements for the last five years or any other document which verifies their Financial Status..
- Employer/User may amend para 3.2.5 of Instruction to Applicants in accordance with Project requirements and the minimum essential requirements mentioned in Invitation for Pre-qualifications.

The following may be used merely as a guideli

Sr. No.	Description	Marks Assigned	Criteria for Marks Obtained
a)	Available Bank Credit Line	5	<ul style="list-style-type: none"> <li>• 3 Marks are given if the available bank credit line limit is equal to the twice of estimated cost.</li> </ul> <p>A= Available Bank Credit Line Limit</p> <ul style="list-style-type: none"> <li>• Full Marks are given in case of limit is 500 million or more.</li> </ul>
b)	Working Capital in last 5 years	5	<ul style="list-style-type: none"> <li>• 3 Marks are given if the available average working capital for last Five years that average should not be less than twice of estimated cost.</li> </ul> <p>A= Average working capital in last five years.</p> <ul style="list-style-type: none"> <li>• Full Marks are given in case of limit is 500 million or more.</li> </ul>
c)	Registration with income tax department & PEC, SRB, FBR and address	5	<ul style="list-style-type: none"> <li>• No points will be given if income tax certificate is not attached and 5 points will be added in case of valid Certificate.</li> </ul>
d)	Copy of Valid electrical license from Sub-Contractor/ JV Partner	5	<ul style="list-style-type: none"> <li>• No points will be given if license is not attached and 5 points will be added in case of valid license.</li> </ul>
e)	Litigation History in which Decision has been given against the firm(s)	5	<ul style="list-style-type: none"> <li>• In case the firm is involved in any litigation, no marks will be given and 5 points will be added in case affidavit of no litigation is attached.</li> </ul>
f)	Blacklisting from any agency	5	<ul style="list-style-type: none"> <li>• In case the firm is blacklisted, no Marks will be given and 5 points will be added in case affidavit by the company that it has not been black listed is attached.</li> </ul>
<b>Total Marks Allocated</b>			<b>30</b>

## 3.0 Qualification Criteria

### 3.0.1 General

Qualification will be based on all the criteria given in succeeding paras

3.0.2 to 3.2.6 regarding the Applicant's Financial Soundness, Experience Record, Personnel Capabilities and Equipment Capabilities as demonstrated by the Applicant's responses in the forms attached to this letter. The Employer reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the contract. Sub-contractor's experience and resources shall not be taken into account in determining the Applicant's compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of firms will be considered for similar treatment as in case of Joint Venture. The procuring agency shall evolve a criteria keeping in view the complexity of the Project. A general criteria merely as a model is provided for reference of the drafters of the Prequalification Document as follows:

Sr. No.	Category	Weightage/Marks
1.	Financial Soundness	30
2.	Experience Record	35
3.	Personnel Capabilities	15
4.	Equipment Capabilities	20
	<b>Total:</b>	<b>100</b>

**Note:** Qualification status shall be decided on the basis of Pass/Fail basis. The applicant must secure at least 50% score in each category, but overall passing percentage should be 60%.

The further detailed criteria for each category may be developed as given under the each head as follows:

### 3.2.2 General Experience

Credit Marks for experience shall be awarded on the basis of following qualifications:

Sr.No.	Description	Maximum Points
i)	Projects of similar nature and complexity completed over latest 10 years.	15
ii)	Projects of similar nature and complexity in hand.	10
iii)	Experience of Works) related to project but not basic part.	5
iv)	Status of enlistment with Government Organizations and other agencies.	5
	<b>Sub-total:</b>	<b>35</b>



### 3.2.3 *Personnel Capabilities*

Credit Marks shall be awarded under this category using the following criteria:

<b>Sr.No.</b>	<b>Description</b>	<b>Maximum Points</b>
i)	Graduate Engineers Registered with PEC a) Number of Engineers b) Experience of Engineers in number of years	6 3
ii)	Number of Diploma Engineers or skilled labor in Employment of the Firm a) Number of Engineers b) Experience of Engineers in number of Years.	4 2
	<b>Sub-total:</b>	<b>15</b>

### 3.2.4 *Equipment Capabilities*

Credit Marks shall be granted on the basis of the following criteria for various kinds of equipment relevant for the Project:

<b>Sr.No.</b>	<b>Equipment Type and Characteristics</b>	<b>Maximum Marks</b>
1.	List relevant equipment and Assign Marks	
2.		
3.		
4.		
5.		
6.		
7.		
	<b>Sub-total:</b>	<b>20</b>

### 3.2.5 *Financial Position*

Credit Marks shall be awarded on the basis of the following criteria:

<b>Sr.No.</b>	<b>Description</b>	<b>Maximum Marks</b>
i)	Available Bank Credit Line	5

Sr.No.	Description	Maximum Marks
ii)	Working Capital in last 5 years.	5
iii)	Registration with Income Tax Department	5
iv)	Litigation History where decision went against the Firm.	5
v)	Blacklisting from any Agency	5
vi)	Valid Licence for other related items of Work	5
	<b>Sub-total:</b>	<b>30</b>

### 3.1 Joint Venture (JV)

3.1.1 Joint Venture must comply with the following requirements:-

- a) Following are minimum qualification requirements:-
  - i) The lead partner shall meet not less than \_\_\_\_\_/ *Assess and insert a figure which is not less than 40 percent*] percent of all qualifying criteria given in paras 3.2 and 3.5 heretofore.
  - ii) Each of the partners shall meet not less than \_\_\_\_\_/ *Assess and insert a figure which should not be less than 25 percent*] percent of all the qualifying criteria given in paras 3.2 and 3.5 heretofore.
  - iii) The joint venture must collectively satisfy the criteria of paras 3.2, 3.3 and 3.4, for which purpose the relevant figures for each of the partners shall be added together to arrive at the JV's total capacity. Individual members must satisfy each of the requirements of paras 3.5 and 3.6 heretofore.
- b) Any change in a prequalified JV after prequalification, shall be subject to the written approval of the Employer prior to the deadline for submission of bids. Such approval may be denied if:-
  - i) Partner(s) withdraw from a JV and remaining partners do not meet the qualifying requirements;
  - ii) The new partners to a JV are not qualified individually or as another JV; or
  - iii) In the opinion of the Employer, a substantial reduction in competition would result.
- c) Bid shall be signed by all members in the JV so as to legally bind all partners, jointly and severally, and any bid shall be submitted with a copy of the JV agreement providing the joint and several liability with respect to the contract

3.1.2 The prequalification of a JV does not necessarily Qualify any of its partners individually or as a partner in any other JV or association. In case of dissolution of a JV, each one of the constituent firms may Qualify if they meet all the prequalification requirements and any

partner of J.V has requested/shall request for the same and then his prequalification shall be subject to the written approval of the Employer.

### 3.4 Conflict of Interest

3.4.1 The Applicant (including all members of a JV) must not be associated, nor have been associated in the past, with the consultant or any other entity that has prepared the design, specifications, and other prequalification and bidding documents for the project, or was proposed as Engineer for the contract, over the last five years. Any such association may result in disqualification of the Applicant.

### 3.5 Updating Prequalification Information

3.5.1 Bidders shall be required to update the financial, personnel and equipment information used for prequalification at the time of submitting their bids, to confirm their continued compliance with the qualification criteria and verification of the information provided at the time of prequalification. A bid shall be rejected if the Applicant's qualification thresholds are no longer met at the time of bidding.

### 3.6 Other Factors

3.6.1 Only firms and JVs that have been prequalified under this procedure shall be invited to bid. A qualified firm or a member of a qualified JV may participate only in one bid for the contract. If a firm submits more than one bid, singly or as a JV, all bids including that bidder will be rejected. This rule will not apply in respect of bids which include specialist sub-contractors who are used by more than one bidder.

3.6.2 The Employer reserves the right to:-

a) Amend the scope and value of any contract(s) to be bid, in which event the bidder(s) will only bid among those prequalified bidders who meet the requirements of the contract(s) as amended. However the Employer has to review the disqualified bids who originally do not meet the specified criteria for Pre-qualification.

b) Cancel the prequalification process and reject all applications. The Employer shall neither be liable for any such actions nor be under any obligation to inform the Applicant of the grounds for rejection, however, may be debriefed if solicited.

3.6.3 Applicants will be informed in writing by fax or mail within \_\_\_\_\_ [ Number of days to vary between 42-84 days i.e. the time required to complete prequalification process ] days of the date for submission of applications (para 8 of Chapter 2.0, Invitation for Prequalification) of the result of their applications and may be debriefed if solicited.

## Application Form A-2

### General Experience Record

Name of Applicant or partner of a joint venture
---

*All individual firms and all partners of a joint venture are requested to complete the information in this form. The information supplied should be the annual turnover of the Applicant (or each member of a joint venture), in terms of the amounts billed to clients for each year for work in progress or completed over the past five years.*

*Use a separate sheet for each partner of a joint venture.*

Annual Turnover (Construction only)		
Year	Turnover (in actual currency)	Equivalent Rupees in Millions.
1.		
2.		
3.		
4.		
5.		

**Application Form A-3**

**Joint Venture Summary if applicable**

<b>Names of all Partners of a Joint Venture</b>
1. Lead Partner
2. Partner
3. Partner
4. Partner
5. Partner
6. Partner

*Total value of annual construction turnover, in terms of work billed to clients,*

<b>Annual Turnover Data (Construction only; Equivalent in Pak Rupees, Millions)</b>						
<b>Partner</b>	<b>Form A-2 Page No.</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>
1. Lead Partner						
2. Partner						
3. Partner						
4. Partner						
5. Partner						
6. Partner						
<b>Total:</b>						

## Application Form A-4

### Particular Experience Record

*Name of Applicant or partner of a joint venture*

*To Qualify, the Applicant shall be required to pass the specified requirements applicable to this form, as set out in the : Instructions to Applicants”.*

*On a separate page, using the format of Application Form A-5, each applicant or partner of a Joint Venture is required to list all contracts of a value equivalent to Pak Rs.-(User/Employer to provide the amount) million, of a similar nature and complexity to the contract for which the Applicant wishes to qualify, undertaken during the last five years<sup>1</sup>. The information is to be summarized, using Application Form A-5, for each contract completed or under execution by the Applicant or by each partner of a Joint Venture.*

*Where the Applicant proposes to use named subcontractor(s) for critical components of the works, or for work contents in excess of 10 percent of the value of the whole works, the information in the afore-mentioned forms should also be supplied for each specialist subcontractor.*

*Where applications are being invited for a number of contracts, suitable wording should be introduced, to allow applicants to apply for individual contracts or groups of contracts (slice and package contracts)*

## Application Form A-5

### Details of Contracts of Similar Nature and Complexity

*Name of Applicant or partner of a joint venture*

Use a separate sheet for each contract.

1.	Name of Contract
	Country
2.	Name of Employer
3.	Employer Address .....
4.	Nature of works and special features relevant to the contract for which the Applicant wishes to Qualify ..... .....
5.	Contract Role (Tick One) (a) Sole Contractor      (b) Sub- Contractor      (c) Partner in a Joint Venture
6.	Value of the total contract (in specified currencies) at completion, or at date of award for current contract Currency.....                      Currency.....                      Currency.....
7.	Equivalent in Pak/Rs.
8.	Date of Award
9.	Date of Completion
10.	Contract Duration (Years and Months) ____ Years                      ____ Months
11.	Specified Requirements ..... ..... .....

*Insert any specific criteria required for particular operations, such as annual volume of earthmoving, underground excavation, or placing concrete etc*

**Application Form A-6**

**Summary Sheet: Current Contract Commitments/Works inProgress**

*Name of Applicant or partner of a joint venture*

*Applicants and each partner to an application should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which substantial Completion Certificate has yet to be issued.*

<b>Name of Contract</b>	<b>Value of Outstanding work (Equivalent Pak Rs. Millions)</b>	<b>Estimated Completion Date</b>
1.		
2.		
3.		
4.		
5.		
6.		



**Application Form A-7**

**Personnel Capabilities**

<i>Name of Applicant</i>
--------------------------

*For specific positions essential to contract implementation, Applicants should provide the names of at least two candidates qualified to meet the specified requirements stated for each position. The data on their experience should be supplied on separate sheets using one Form for each candidate (Application Form A-8).*

1.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
2.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
3.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate
4.	Title of Position
	Name of Prime Candidate
	Name of Alternate Candidate

**Application Form A-8**

**Candidate Summary**

<i>Name of Applicant</i>
--------------------------

<b>Position</b>		<b>Candidate</b> [Tick appropriate one] <input type="checkbox"/> Prime <input type="checkbox"/> Alternate
Candidate information	1. Name of Candidate	2. Date of Birth
	3. Professional Qualification	
Present employment	4. Name of employer	
	Address of employer	
	Telephone	Contact (manager/personnel officer)
	Fax	Telex
	Job title of candidate	Years with present employer

*Summarize professional experience over the last 20 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.*

<b>Month/ Dates/Years</b>		<b>Company / Project / Position / Relevant technical and management experience</b>
<b>From</b>	<b>To</b>	

## Equipment Capabilities

### Application Form A-9

<i>Name of Applicant</i>
--------------------------

*The Applicant shall provide adequate information to demonstrate clearly that he has the capability to meet the requirements for each and all items of equipment listed in the Instructions to Applicants. A separate Form shall be prepared for each item of equipment listed in para 3.2.4 of the Instructions to Applicants, or for alternative equipment proposed by the Applicant.*

<b>Item of Equipment</b>							
Equipment information	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">1. Name of manufacturer</td> <td style="width: 50%; padding: 5px;">2. Model and power rating</td> </tr> <tr> <td style="padding: 5px;">3. Capacity</td> <td style="padding: 5px;">4. Year of manufacture</td> </tr> </table>	1. Name of manufacturer	2. Model and power rating	3. Capacity	4. Year of manufacture		
1. Name of manufacturer	2. Model and power rating						
3. Capacity	4. Year of manufacture						
Current status	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">5. Current location</td> <td style="width: 50%;"></td> </tr> <tr> <td colspan="2" style="padding: 5px;">6. Details of current commitments</td> </tr> <tr> <td colspan="2" style="padding: 5px;"> </td> </tr> </table>	5. Current location		6. Details of current commitments			
5. Current location							
6. Details of current commitments							
Source	7. Indicate source of the equipment  <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased						

*Omit the following information if it is owned by the Applicant or partner.*

Owner	8. Name of owner				
	9. Address of owner				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">Telephone</td> <td style="width: 50%; padding: 5px;">Contact name and title</td> </tr> <tr> <td style="padding: 5px;">Fax</td> <td style="padding: 5px;">Telex</td> </tr> </table>	Telephone	Contact name and title	Fax	Telex
Telephone	Contact name and title				
Fax	Telex				
Agreement	Details of rental/lease specific to the Project.    				

**Application Form A-10**

**Financial Capability**

**Name of Applicant or Partner of a Joint Venture**

*Applicants, including each partner of a joint venture, should provide financial information to demonstrate that they meet the requirements stated in the Instructions to Applicants. Each applicant or partner of a joint venture must fill-in this form. If necessary, use separate sheets to provide complete banker information. A copy of the audited balance sheets should be attached.*

<b>Banker</b>	Name of banker	
	Address of banker	
	Telephone	Contact name and title
	Fax	Telex

*Summarize actual assets and liabilities in Pak Rupees (Equivalent at the current rate of exchange at the end of each year) for the previous five years, based upon known commitments, projected assets and liabilities in pak Rupees equivalent for the next two years.*

Financial information in Pak Rs. or equivalent	Actual: previous five year					Projected: next two years	
	1	2	3	4	5	6	7
1. Total assets							
2. Current assets							
3. Total liabilities							
4. Current liabilities							
5. Profits before taxes							
6. Profits after taxes							

*Specific proposed sources of financing to meet the cash flow of the Project, net of current commitments (Instructions to Applicants, para 3.2.5).*

<b>Source of financing</b>	<b>Amount (Pak Rs. or equivalent)</b>
1.	
2.	
3.	
4.	

*Attach audited financial statements for the last five years (for individual applicant or each partner of joint venture).*

*Firms owned by individuals, and partnerships, may submit their balance sheets certified by a registered accountant, and supported by copies of tax returns, if audits are not required by the laws of their countries of origin in case of foreign firms.*



**\*DRAWINGS**

(Tender Drawings are attached)

**Software Engineering Department**

**QUEST, NAWABSHSH**

**SUMMARY OF COST - ELECTRICAL WORKS**

<b>S.#</b>	<b>Description</b>	<b>Amount</b>	
<b>A</b>	<b>Electrical Works</b>		
1	Schedule Electrical Works SI	<b>Rs.</b>	
2	Non Schedule Electrical Works	<b>Rs.</b>	
	<b>Total - A</b>	<b>Rs.</b>	
<b>B</b>	<b>External Works</b>		
1	External Electrification	<b>Rs.</b>	
	<b>Total: - B</b>	<b>Rs.</b>	
	<b>Grand Total(A+B)</b>	<b>Rs.</b>	

**Note:**

**The quantities can be decrease as per available funds position and can be increase as per allowable limit.**

**All taxes will be deducted as per government rules**

\_\_\_\_\_  
Project Coordinator

\_\_\_\_\_  
Contractor



**SOFTWARE ENGINEERING DEPARTMENT  
QUEST NAWABSHSH  
SUMMARY OF COST FOR ELECTRICAL WORKS**

<b>A: SHEDULE ITEMS</b>			
<b>Sr. No.</b>	<b>Description</b>	<b>Amount (Rs.)</b>	
1	Section "A" Internal Electrification	Rs.	
2	Section "B" Light Fittings & Fixtures	Rs.	
3	Section "C" Distribution Boards & Feeders	Rs.	
4	Section "D" Main & Sub-Main Cables	Rs.	
5	Section "E" Installation & Wirring Of Computer Power System And Multi-Outlet Boxes	Rs.	
6	SECTION "F" Voice System	Rs.	
<b>COST OF SHEDULE ITEMS "A"</b>		Rs.	
<b>B: NON SHEDULE ITEMS</b>			
7	Section "G" Internal Electrification	Rs.	
8	Section "H" Light Fittings & Fixtures	Rs.	
9	Section "I" Distribution Boards & Feeders	Rs.	
10	Section "J" Earthing	Rs.	
11	Section "K" Cable Containment	Rs.	
12	Section "L" Fire Alarm Syatem Installation	Rs.	
13	SECTION "M": ICT Security System (CCTV Syatem)	Rs.	
14	SECTION "N": Installation & Wirring Of Computer Power System Multi-Outlet Boxes	Rs.	
15	SECTION "O": Computer Data System	Rs.	
16	SECTION "P" : Voice System	Rs.	
<b>COST OF NON SHEDULE ITEMS "B"</b>		Rs.	
<b>C: External Electrification</b>			
17	SECTION "Q" : External Electrification	Rs.	
<b>OVERALL COST (A+B+C)</b>		Rs.	

Project Coordinator

Contractor

**COST ESTIMATE**  
**SOFTWARE ENGINEERING DEPARTMENT QUEST, NAWABSHAH**  
**Electrical Works**

**SCHEDULE ITEMS**

**Section "A" Internal Electrification Schedule Items**

S.No.	ITEM DESCRIPTION	QTY	UNIT	RATE (RS.)	TOTAL AMOUNT (RS.)
1	Providing & Laying of wiring for light or fan point with 2-3/0.029 PVC insulated cable in 20mm dia (3/4") PVC conduit recessed in wall or column as required. (ESI # 124 Page #15).	668	P. Point	1,130	754,840
2	Providing & Laying of wiring for plug point with 2-3/0.029 S/C, PVC insulated cable in 20mm dia (3/4") PVC conduit recessed in the wall or column as required. (ESI # 126 Page # 15)	124	P. Point	985	122,140
3	Providing & Laying (Mains or Sub-Mains) PVC Insulated with size 2-7/0.029 wire copper conductor in (3/4" dia) PVC Conduit recessed in wall or column as required. (Lighting Circuit), (ESI#10, P#2)	1280	Mtr.	222	284,160
4	Providing & Laying (Mains or Sub-Mains) PVC Insulated with size 2-7/0.036 wire copper conductor in (3/4" dia) PVC Conduit recessed in wall or column as required. Computer multi switch Sockets outlet , (ESI # 11, P # 2)	8500	Mtr.	252	2,142,000
5	Providing & Laying (Mains or Sub-Mains) PVC Insulated with size 2-7/0.036 wire copper conductor in (3/4" dia) PVC Conduit recessed in wall or column as required. (Power A/C Circuit), (ESI # 11, P # 2)	300	Mtr.	252	75,600
6	Providing & Laying (Mains or Sub-Mains) PVC Insulated with size 2-7/0.044 (6mm <sup>2</sup> ) wire copper conductor in (3/4" dia) PVC Conduit recessed in wall or column as required. (2TN AC Circuit), (ESI#12, P#2)	648	Mtr.	341	220,968
7	Providing & Laying (Mains or Sub-Mains) PVC Insulated with size 2-7/0.052 (10mm <sup>2</sup> ) wire copper conductor in (3/4" dia) PVC Conduit recessed in wall or column as required. (Power Circuit), (ESI # 13, P # 2)	10	Mtr.	463	4,630
8	Providing and fixing of flush type, 2/3 pin, 5 Amps, S.P, plug socket, switch. (ESI # 226 Page # 33).	124	No.	151	18,724
9	Providing and fixing of flush type, 3 pin, 10/15 Amps, S.P, plug socket, switch. (ESI # 227 Page # 33).	124	No.	162	20,088
	<b>COST OF SECTION "A "</b>				<b>3,643,150</b>
	<b>PREMIUM _____% ABOVE OR BELOW</b>				
	<b>TOTAL</b>				

Project Coordinator

Contractor

## COST ESTIMATE

### SOFTWARE ENGINEERING DEPARTMENT QUEST, NAWABSHAH Electrical Works

#### SCHEDULE ITEMS

#### Section "B" Light Fittings & Fixtures

S. No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Providing installing and connecting of Millat/Asia/Pak Fan make (or to be approved by EI), 56" sweep ceiling fan complete with fan dimer, canopy, down rod, etc. including fixing of fan dimmers in the given and making holes on both side of down rod and wiring it with 1.5 mm twin core., 450/750 V grade pvc/pvc + 1-1.5mm ECC and also providing of 16 mm dia mild steel fan hook on R.C.C roof or beam as required. Complete in all respect with all accessories(N.S.I)	181	No.	7,015	1,269,715
2	Providing & fixing Bakelite ceiling rose with two terminals. (ESI # 228, P # 33)	12	No.	72	864
3	Providing installing of 30W wall bracket fan ESI# 236, P#34	2	No.	3,500	7,000
4	Providing and fixing of SP 10 A Switches with fancy sheets to house plug-socket, switch or regulator etc. on a given prepared board (Approx. Quantity) (ESI#219, P#33)				
	Size 78 mm x 83 mm x 56 mm (LxWxD)	638	No.	54	34,452
<b>COST OF SECTION "B"</b>					<b>1,312,031</b>
<b>PREMIUM _____ % ABOVE OR BELOW</b>					
<b>Total</b>					

\_\_\_\_\_  
Project Coordinator

\_\_\_\_\_  
Contractor

## COST ESTIMATE

### SOFTWARE ENGINEERING DEPARTMENT QUEST, NAWABSHAH Electrical Works

#### SCHEDULE ITEMS

#### Section "C" Distribution Boards & Feeders

S. No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Providing, installing connecting & commissioning of the following Distribution Boards (DBs) fabricated of 14 SWG steel clad, cubical design with hinged door cover, wall (recessed) mounted, factory assembled, suitable for 3 phase, 4 wire, 500 volts, 50 Hz A.C Power Supply Complete with copper cable lugs, glands, neutral link, earth block, terminal block etc. & having following configurations. (All equipment rated to 5 kA short circuit rating and 50 °C ambient temperature at 415V). Panel enclosure to comply with IP-50.				
1.1	<b>LPDB-GF1&amp;GF2</b>				
	<b>Incoming</b>				
	01 - 63 A, T.P M.C.C.B (XS-100NS) (ESI #	2	No.	9,261	18,522
	03-Providing & fixing digital voltmeter size 96/96mm 500 V as required & as per instruction of Engineer Incharge (EI) (ESI # 285, P # 41)	2	No.	999	1,998
	<b>Outgoing</b>				
	39 - 15 A, S.P, M.C.Bs + 6-32 ASP(ESI # 203, P # 31)	39	No.	916	35,724
	81 - 10 A, S.P, M.C.Bs (ESI # 203, P # 31)	81	No.	916	74,196
1.2	<b>LPDB-FF1&amp;FF2</b>				
	<b>Incoming</b>				
	01 - 63 A, T.P M.C.C.B (XS-100NS) (ESI #	2	No.	9,261	18,522
	<b>Outgoing</b>				
	72 - 10 A, S.P, M.C.Bs (ESI # 203, P # 31)	72	No.	916	65,952
	30- 16 A, S.P, M.C.B (ESI # 203, P # 31)	30	No.	916	27,480
1.3	<b>DBAC-GF1</b>				
	<b>Incoming</b>				
	01- 100A, TP M.C.C.B (X100NS) (ESI # 208, P # 31).	1	No.	25,541	25,541
	01- Amp meter 100A +ASS (ESI#284, P#41)	1	No.	1,054	1,054

S. No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
	03- CT (Current Transformer) (ESI#271, P#39)	3	No.	1,411	4,233
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	1	No.	999	999
	03- Indication lights	3	No.	789	2,367
	<b>Outgoing</b>				
	11- 20A, SP MCBs (ESI # 203, P # 31)	11	No.	916	10,076
	10- 32A, SP MCBs (ESI # 203, P # 31)	10	No.	916	9,160
	<b>DBAC-GF2</b>				
	<b>Incoming</b>				
	01- 125A, TP M.C.C.B (X100NS) (ESI # 208, P # 31).	0	No.	-	-
	01- Amp meter 125A +ASS (ESI#284, P#41)	0	No.	-	-
	03- CT (Current Transformer) (ESI#271, P#39)	0	No.	-	-
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	0	No.	-	-
	03- Indication lights	0	No.	-	-
	<b>Outgoing</b>				
	24- 32A, SP MCBs (ESI # 203, P # 31)	0	No.	-	-
1.4	<b>DB-A/C FF-1</b>				
	<b>Incoming</b>				
	01- 100 A, T.P. M.C.C.B (X100NS) (ESI # 208, P # 31).	1	No.	25,541	25,541
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	1	No.	1,411	1,411
	<b>Outgoing</b>				
	20- 32A, SP MCCB (ESI # 203, P # 31)	20	No.	916	6,412
	2- 20A, SP MCCB (ESI # 203, P # 31)	2	No.	916	9,160
1.5	<b>DB-A/C FF-2</b>				
	<b>Incoming</b>				
	01- 125 A, T.P. M.C.C.B (X100NS) (ESI # 208, P # 31).	0	No.	-	-
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	0	No.	-	-
	<b>Outgoing</b>				
	27- 32A, SP MCCB (ESI # 203, P # 31)	0	No.	-	-
1.6	<b>CDB- GF1</b>				
	<b>Incoming</b>				
	01- 40A, TP MCCB (XS-100NS) (ESI # 207, P # 31).	1	No.	9,261	9,261
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	1	No.	999	999
	03- Indication Lights	3	No.	789	2,367
	<b>Outgoing</b>				
	51- 16A, SP MCB (ESI # 203, P # 31)	51	No.	916	46,716

S. No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1.7	<b>CBD-GF2</b>				
	<b>Incoming</b>				
	01- 40A, TP MCCB (XS-100NS) (ESI # 207, P # 31).	1	No.	9,261	9,261
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	1	No.	999	999
	03- Indication Lights	3	No.	789	163,323
	<b>Outgoing</b>				
	57- 16A, SP MCB (ESI # 203, P # 31)	57	No.	916	52,212
1.8	<b>CBD-FF1</b>				
	<b>Incoming</b>				
	01- 63A, TP MCCB (XS-100NS) (ESI # 207, P # 31).	1	No.	9,261	9,261
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	1	No.	999	999
	03- Indication Lights	3	No.	789	163,323
	<b>Outgoing</b>				
	105- 16A, SP MCB (ESI # 203, P # 31)	105	No.	916	96,180
1.8	<b>CBD-FF2</b>				
	<b>Incoming</b>				
	01- 63A, TP MCCB (XS-100NS) (ESI # 207, P # 31).	1	No.	9,261	9,261
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	1	No.	999	999
	03- Indication Lights	3	No.	789	163,323
	<b>Outgoing</b>				
	105- 16A, SP MCB (ESI # 203, P # 31)	105	No.	916	96,180
1.9	<b>SMPB-FF</b>				
	01- 250A, TP MCCB (XS-400CJ) ESI#209, P#31	1	No.	27,411	27,411
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	1	No.	999	999
	01- Amp meter 250A +ASS (ESI#284, P#41)	1	No.	1,054	1,054
	03- CT (Current Transformer) (ESI#271, P#39)	3	No.	1,411	4,233
	03- Indication Light	3	No.	789	2,367
	<b>Outgoing</b>				
	1- 32A, TP MCCB (XS-100NS) (ESI # 207, P # 31).	1	No.	9,261	9,261
	1- 100A, TP MCCB (XS-100NS) (ESI # 208, P # 31).	1	No.	9,261	9,261
	04- 60A, TP MCCB (XS-100NS) (ESI # 207, P # 31).	4	No.	9,261	37,044
	2	<b>Main LT Panel</b>			
	<b>Incoming</b>				
	01- 400A, TP MCCB (XS-630CJ) ESI#211, P#31	1	No.	61,696	61,696

<b>S. No.</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Rs.)</b>	<b>AMOUNT (Rs.)</b>
	01- Volt meter 500V with (VSS) (ESI#285, P#41)	1	No.	999	999
	01- Amp meter 400A +ASS (ESI#284, P#41)	1	No.	1,054	1,054
	03- CT (Current Transformer) (ESI#271, P#39)	3	No.	1,411	4,233
	03- Indication Light	3	No.	789	2,367
	<b>Outgoing</b>				
	1- 250A, TP MCCB (XS-400CJ) (ESI # 210, P # 31).	1	No.	39,401	39,401
	2- 40A TP MCCB (XS-30NS) ESI#205, P#31	2	No.	5,301	10,602
	1- 100A, TP MCCB (XS-100NS) (ESI # 208, P # 31).	1	No.	9,261	9,261
	03- 60A, TP MCCB (XS-100NS) (ESI # 207, P # 31).	3	No.	9,261	27,783
<b>COST OF SECTION "C "</b>					<b>1,412,038</b>
<b>PREMIUM _____% ABOVE OR BELOW</b>					
<b>Total</b>					

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Project Coordinator

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Contractor

## COST ESTIMATE

### SOFTWARE ENGINEERING DEPARTMENT QUEST, NAWABSHAH

#### Electrical Works

#### SCHEDULE ITEMS

#### SECTION "D" MAIN & SUB-MAIN CABLES

S. No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	providing & laying (main OR sub-main cable) pvc insulated & PVC sheeted with 4-core copper conductor 300/500 volts size 10mm <sup>2</sup> (ESI#101, p#12	131	MTR.	742	97,202
1.1	providing & laying (main & sub-main cable) pvc insulated & PVC sheeted with 4-core copper conductor 600/1000 volts size 16mm <sup>2</sup> (ESI#102, p#12	59	MTR.	1,300	76,700
1.2	providing & laying (main & sub-main cable) pvc insulated & PVC sheeted with 4-core copper conductor 600/1000 volts size 240mm <sup>2</sup> (ESI#110, p#12	15	MTR.	12,478	187,170
1.4	Providing laying & connecting of hard drawn Copper wire from Main LT Panel to the Distribution Boards (DBs) in PVC conduit a detail below recessed in the RCC or on surface / concealed in wall or column as required, complete in all respect and entire satisfaction of consultant / owner.				
2.1	<b>LPDB-GF1 GF2</b>				
	Providing & laying of PVC copper conductor size 2-6 mm <sup>2</sup> as E.C.C with wiring of already laid conduit recessed in wall/ground/floor as required. (ESI#12, P#2	98	Meter	341	33,418
2.2	<b>LPDB-FF1&amp;FF2</b>				
	Providing & laying of Pvc copper conductor size 2-10 mm <sup>2</sup> as E.C.C with wiring of in already laid conduit recessed in wall/ground/floor as required. (ESI#13, P#2)	95	Meter	353	33,535



S. No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
2.3	<b>PDB-A/C-</b>				
	Providing & laying of hard drawn bare copper conductor size 16 mm <sup>2</sup> as E.C.C with wiring of DB-A/C in 3" dia rigid PVC conduit recessed in wall/ground/floor as required. (ESI#14, P#2)	119	Meter	641	76,279
2.4	<b>PDB (General Power)</b>				
	Providing & laying of stranded bare copper conductor size 2-70 mm <sup>2</sup> as E.C.C.	25	Meter	3,200	80,000
	<b>COST OF SECTION "D "</b>				<b>584,304</b>
	<b>PREMIUM _____% ABOVE OR BELOW</b>				
	<b>Total</b>				

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Project Coordinator

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## COST ESTIMATE

### SOFTWARE ENGINEERING DEPARTMENT QUEST, NAWABSHAH

#### Electrical Works

#### SCHEDULE ITEMS

#### Section "E" INSTALLATION & WIRING OF COMPUTERR POWER SYSTEM & MULTI-OUTLET BOXES

S. No.	ITEM DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	providing & fixing channel patti 1" required as per instruction of E.I. (from the switch or patch panel to computer outlet)_ (ESI#296, P#43)	3000	Rft	40	120,000
<b>TOTAL COST OF SECTION "E"</b>					<b>120,000</b>
<b>PREMIUM _____% ABOVE OR BELOW</b>					
<b>Total</b>					

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**COST ESTIMATE**  
**SOFTWARE ENGINEERING DEPARTMENT QUEST, NAWABSHAH**  
**Electrical Works**

**SCHEDULE ITEMS**

**SECTION "F" : VOICE SYSTEM**

S. No.	ITEM DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	Providing & fixing channel patti 1" required as per instruction of E.I (from the switch or patch panel to computer outlets) (ESI#296, P#43)	2500	Rft.	40	100,000
	<b>COST OF SECTION "F"</b>				<b>100,000</b>
	PREMIUM _____% ABOVE OR BELOW				
	<b>Total</b>				

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Project Coordinator

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Contractor

**COST ESTIMATE****SOFTWARE ENGINEERING DEPARTMENT QUEST, NAWABSHAH****Electrical Works****NON SCHEDULE ITEMS****Section "G" Internal Electrification Non Schedule Items**

S.No.	ITEM DESCRIPTION	QTY	UNIT	RATE (RS.)	TOTAL AMOUNT (RS.)
1	Providing and fixing of Plastic Back Box to accommodate mains or sub mains switches, plug socket units, etc. on a given prepared board, recessed in the wall, as required. (Approx Quantity) Size 78 mm x 83 mm x 56 mm (LxWxD)	248	No.		
<b>TOTAL COST OF SECTION "G"</b>					

**Section "H" Light Fittings & Fixtures**

1.	Providing, installing, fixing and connecting of following light fixtures with lamps, chokes, starters, capacitors etc, complete with all internal connections and all fixing and mounting accessories. Jobs includes rod and wiring as given in drawing.				
1.1	Supply & installation of 8W LED lamp spot light (N.S.I)	52	No.		
1.2	Supply & installation of 14W LED lamp mirror light (N.S.I)	24	No.		
1.3	Philips Make TMS-015 with 1x36W LED TL Lamp or equivalent quality, as approved by Engineer Incharge.	264	No.		
1.5	Philips Make DN - 024B, 12W Led Light,surface/ recessed circular shape or equivalent quality, as approved by Engineer Incharge.	105	No.		
1.6	Supply & installation of 18W ceiling Led mounted TLD lamp Complete Light (N.S.I)	5	No.		
1.7	Supply & installation of 22W of bulk head light (N.S.I)	30	No.		
1.8	Malit/Wahid/Pak Fan make or equivalent quality, as approved by Engineer Incharge 12" sweep capacitor with shutter, 2 way option plastic exhaust fan complete with capacitors including making of hole in wall to accommodate the fan & repairing good the damages.	12	Nos.		

S.No.	ITEM DESCRIPTION	QTY	UNIT	RATE (RS.)	TOTAL AMOUNT (RS.)
1.9	Providing & installing of plastic Fan Box for ceiling fan and its wiring complete in all respect and accessories including steel hook for supporting the ceiling fan & plastic cover to cover the fan box.	181			
<b>TOTAL COST OF SECTION "H"</b>					
<b>Section "I" Distribution Boards &amp; Feeders</b>					
1	Providing of Main Distribution Board (MLT) fabricated of 14 SWG sheet steel clad, free standing, floor mounting type for 3 phase, 500 volts, 50 Hz, A.C Power supply and having the following configurations. (All equipment to be rated minimum 25 kA short circuit).	1	No.		
1.1	<b>SUB MAIN PANEL BOARD (SMPB)</b> Providing of SMPB fabricated of 14 SWG sheet steel clad, free standing, floor mounting type for 3 phase, 500 volts, 50 Hz, A.C Power supply and having the following configurations. (All equipment to be rated minimum 25 kA short circuit).	1	No.		
1.2	Fabrication of LPDB'S, DB-AC'S CDB'S & LIFT DB'S fabricated of 16 SWG sheet steel clad, wall mounting type for 3 phase, 500 volts, 50 Hz, A.C Power supply and having the following configurations.	10	No.		
<b>TOTAL COST OF SECTION "I"</b>					
<b>Section "J" Earthing</b>					
1	Providing, marking and testing of earth points with 2' x 2' x 1/8" thick copper plate buried 5 meter deep or to the depth of permanent water level whichever is less covered with charcoal and lime in specified ratio confirming to specificatin and drawing.	3	Job		

S.No.	ITEM DESCRIPTION	QTY	UNIT	RATE (RS.)	TOTAL AMOUNT (RS.)
2	Providing drawing, connecting & testing of 2-70mm <sup>2</sup> bare copper conductor as earthing leads in 32 mm dia G.I pipe burried in ground or connected in R.C.C or masonry as required from Panel Board to the earth plate including making of 18"x18" cement concrete chamber duly plastered and cover with R.C.C Slab, including, providing & fixing of plug for watering, complete with all accessories and fasteners and as per drawing & specification.	2	Job		
3	Providing fixing and connecting of 50x5x1200 mm thick copper earth	3	Job		
4	Providing and fixing of bare copper conductor size 1-1.5mm <sup>2</sup> as Earth Continuity Conductor (ECC) with any given mains or sub-mains in all system of wiring including metallic electrical accessories. (Approx length)	6,600	Meter		
5	Providing and fixing of bare copper conductor size 1-2.5mm <sup>2</sup> as Earth Continuity Conductor (ECC) with any given mains or sub-mains in all system of wiring including metallic electrical accessories. (Approx length)	2,952	Meter		
6	Providing and fixing of bare copper conductor size 1-4mm <sup>2</sup> as Earth Continuity Conductor (ECC) with any given mains or sub-mains in all system of wiring including metallic electrical accessories. (Approx length)	1,300	Meter		
7	Providing and fixing of bare copper conductor size 1-6mm <sup>2</sup> as Earth Continuity Conductor (ECC) with any given mains or sub-mains in all system of wiring including metallic electrical accessories. (Approx length)	100	Meter		
<b>TOTAL COST OF SECTION "J"</b>					

S.No.	ITEM DESCRIPTION	QTY	UNIT	RATE (RS.)	TOTAL AMOUNT (RS.)
<b>Section "K" Cable Containment</b>					
1	Supply and Installation of medium duty G.I cable tray with elbows, Tee and all fixing accessories (Z-Channel, Iron Bracket, nut and bolts etc.) as per drawings and specifications complete in all respects.				
a)	16 SWG perforaed cable tray with 18 SWG solid cover 12" Wide x 4" Deep Cable tray.	20	Rft		
<b>TOTAL COST OF SECTION "K"</b>					
<b>Section "L" FIRE ALARM SYSTEM INSTALLATION</b>					
1.	Supply, Testing & Commissioning of Fire Alarm Panel with built-in Power Supply and battery backup. Complete in all respect with all accessories (Make MANVIER Fire control panel(1-loop) or equivalent as approved by Engineer Incharge).	1	No.		
2.	Supply, Testing & Commissioning of Optical Smoke Detector with base. Complete in all respect with all accessories (Make MANVIER or equivalent as approved by Engineer Incharge).	50	No.		
3	Supply, Testing & Commissioning of Heat Detector (ASA) with base. Complete in all respect with all accessories (Make MANVIER or equivalent as approved by Engineer Incharge).	1	No.		
4	Supply, Testing & Commissioning of Sounder Beacon with base. Complete in all respect with all accessories (Make MANVIER or equivalent as approved by Engineer Incharge).	8	No.		
5	Supply, Testing & Commissioning of Manual Call points (Housing Red). Complete in all respect with all accessories (Make MANVIER or equivalent as approved by Engineer Incharge).	8	Nos.		
6	Supply, Testing & Commissioning of Fire 2X1.5 mmsq PVC/Shielded Fire rated (BELDON UK)System Cable. Complete in all respect.	900	Mtr.		

S.No.	ITEM DESCRIPTION	QTY	UNIT	RATE (RS.)	TOTAL AMOUNT (RS.)
7	Testing & Commissioning of Fire Alarm System.	1	Job		
<b>TOTAL COST OF SECTION "L"</b>					
<b>SECTION "M": ICT SECURITY SYSTEM (CCTV SYSTEM)</b>					
1	Indoor IPS Cameras	-	Nos	-	-
2	Mount	-	Nos	-	-
3	Outdoor IP Cameras	-	Nos	-	-
4	Power Supply	-	Nos	-	-
5	LED 55" Screen With HDMI & VGA Inputs with NVR recorder 32 channel	-	Nos	-	-
<b>TOTAL COST OF SECTION "M"</b>					-
<b>SECTION "N": INSTALLATION &amp; WIRING OF COMPUTER POWER SYSTEM MULTI OUTLET BOXES</b>					
1	Supply installation of 13Amp Flat-pin switch out-lets	558	NO.		
2	providing and installing of multioutlet boxes on floor/wall of appropriate size for power and computer data outlet )multi-outlet box of m/s clipsal/opal or equivalent as approved by EI	144	NO.		
3	providing and fixing of plastic back box to accommodate multi-outlet boxes for power, telephone and data outlet, resealed in the wall, as required ( approx quality)				
	b) size 78 mm x 56 mm (LXWXH)	558	NO.		
<b>COST OF SECTION "N"</b>					
<b>SECTION "O": COMPUTER DATA SYSTEM</b>					
1	Providing & laying copper 1.5 mm2 copper conductor as ECC with wiring of Multi-outlet boxes as required . Complete in all respects.	6,200	MTR.		
2	supply and installing of arkite 12U 19" communication rack 780x600x500 mm with PDU, complete in all respect.	20	No.		
3	supply and installing of schneider actassi front cable organizer.	20	No.		
4	supply and installation of CAT-6 cable in already laid in channel patti on surface from switch / patch panel to the respective outlet boxes, including termination of CAT-6 cable complete in all respects.	18,500	MTR.		



S.No.	ITEM DESCRIPTION	QTY	UNIT	RATE (RS.)	TOTAL AMOUNT (RS.)
5	providing and installing of following Multi-outlet boxes on floor/wall/column of appropriate.				
	a) multi-outlet box wall mounted	414	No.		
6	providing and laying of the 1" dia PVC conduit in ground before final flooring for main cable from / patch panel to the respective outlet boxes, including termination of CAT-6 cable, complete respects.	1,920	MTR.		
7	Supply and laying 50mm Dia Pvc Pipe for Computer Wiring.	1,000	MTR.		
	Same as above but 100mm Dia pvc pipe	190	MTR.		
<b>COST OF SECTION "O"</b>					
<b>SECTION "P": VOICE SYSTEM</b>					
1	Providing installing & connection of one pin telephone socket outlet with back box recessed on wall complete with all accessories (COST OF VOICE POINT OUTLET IS COVERED WITH MULTI-OUTLET BOX IN THE COMPUTER DATA				
1.1	make schnieder actaasi / 3m. 4-pair CAT-5 UTP cable. Or equilent as approved by engineer incharge.	2,000	MTR.		
1.2	providing and lying of the 1" dia PVC conduit concealed in ground before final flooring from main gate to main TJB. Complete in all respect with all required accessories	780	MTR.		
1.3	providing and installing telephone junction box 30 pair with krone strips	2	No.		
1.4	providing and connecting voice patch cords	50	No.		
1.5	providing and laying 25 pair Telephone Cable laid in Already laid conduit.	200	MTR.		
<b>COST OF SECTION "P"</b>					
<b>Grand Total (G+H++I+J+K+L+M+N+O+P) Rs.</b>					

Project Coordinator

Contractor

**SOFTWARE ENGINEERING DEPARTMENT**

**QUEST, NAWABSHSH**

**SUMMARY OF COST - EXTERNAL WORKS**

<b>S.#</b>	<b>Description</b>	<b>Amount (Rs.)</b>
<b>A</b>	<b>External Works</b>	
1	External Electrification Schedule	
	<b>Total: - A</b>	

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Project Coordinator

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Contractor

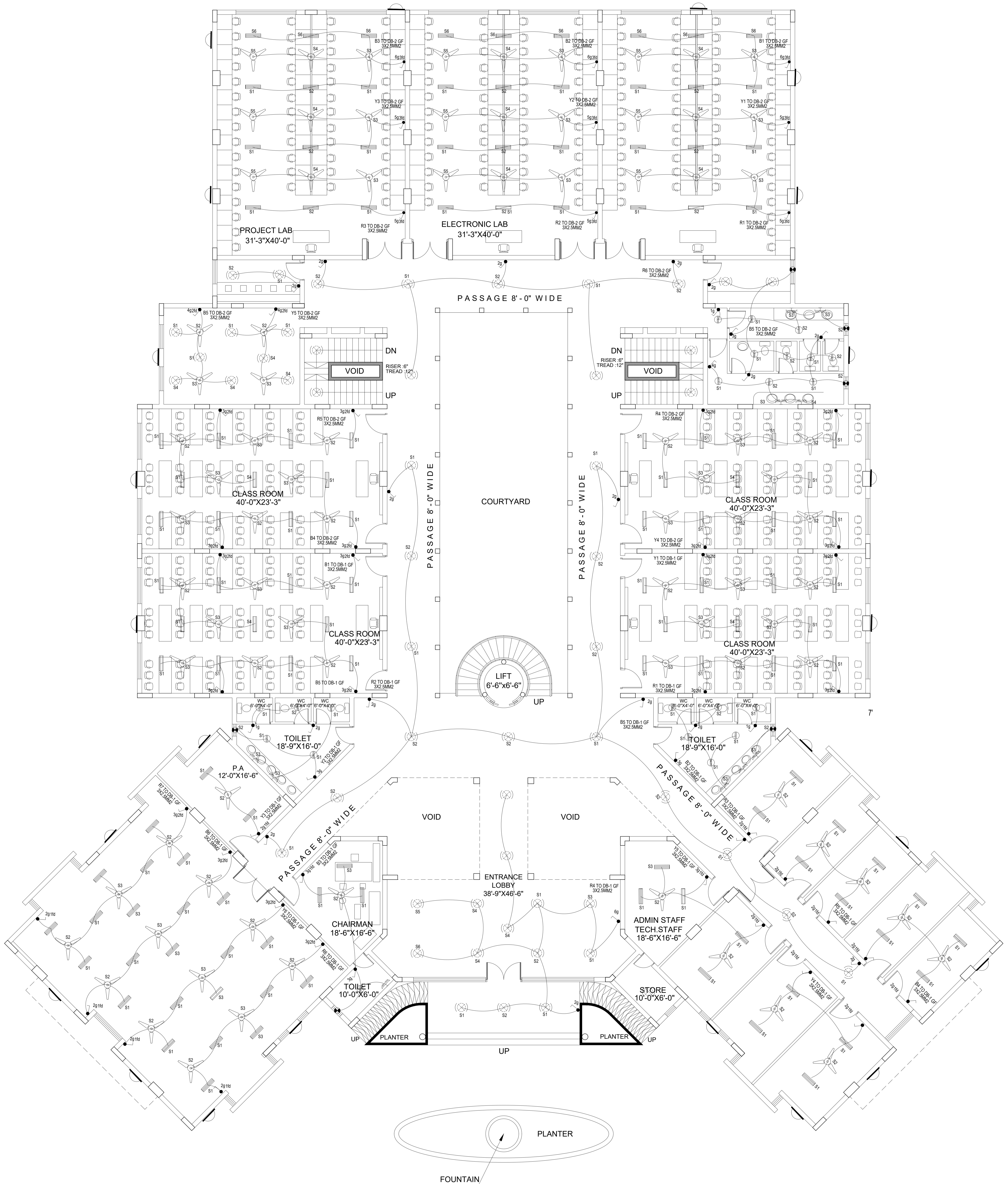
**COST ESTIMATE**  
**SOFTWARE ENGINEERING DEPARTMENT BLOCK QUEST, NAWABSHAH**  
**Electrical Works**  
**NON SHEDULE ITEMS**

**Section "Q" External Electrification**

S.No.	ITEM DESCRIPTION	QTY	UNIT	RATE (RS.)	TOTAL AMOUNT (RS.)
<b>Section "Q"</b>					
1	Supply & Fixing, wooden, Cross Arm, 2.44Mx125MMx100MM. Complete with Brackets & oil dipped as Specified for HT Supply.	2	No.		
1.1	Double D Link Insulator for HT Supply 3 nos each.	2	Set		
1.3	Supply & laying of 11KV HT Cable 3 core 50mm <sup>2</sup> Standard Copper Conductor XLPE Insulated PVC Beded steel wire Armoured & PVC Sheated Over all. Laid in Trenches, comprise with bricks, sand layer.	150	MTR		
1.4	Supply & Fixing PVC Termination Kit, HT, 11KV outdoor, heat shirink, complete with tubs copper lugs, HT & PIB Tape & Earth Wire suitable for 3Core 50 MM <sup>2</sup> .	2	Nos.		
2.0	<b>LT CABLE</b>				
	Supply & laying 240 mm <sup>2</sup> 4C PVC/SWA/PVC Armoured Cable with excavation & Back filling with 6" Sand Bed under & over the cable & Bricks. complete in all respect	90	MTR		
3.0	<b>Change Over Switch</b>				
	Supply & fixing, Testing & Commissioning of 100A Change over switch	1	Nos.		
4.0	<b>TRANSFORMER</b>				
	Supply and Fixing, Testing & Commissioning of 250 KVA Power Transformer Pad Mounted Type. OIL impressed Naturally Cooled, step down 11000/400/230 Volts. 50 Cycles comprising with High/low voltage Component control.	1	Nos.		
<b>TOTAL COST OF SECTION "Q"</b>					

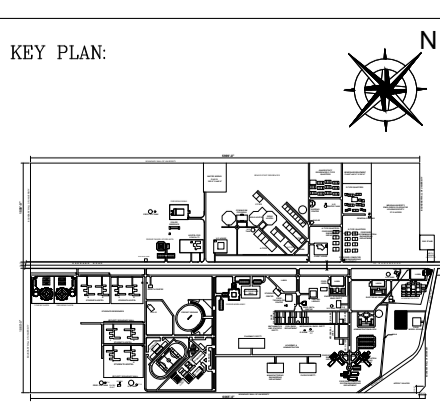
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Contractor



TENDER DRAWING

S. NO. REVISION: DATE: KEY PLAN



PROJECT: QUAID-E-AWAM UNIVERSITY OF ENGINEERING SCIENCES & TECHNOLOGY NAWABSHAH

PROJECT TITLE: Software Engineering Department

DRAWING TITLE: GROUND FLOOR LIGHTING LAYOUT PLAN

RESIDENT ARCHITECT

PEERZADA MASROOR RAZA SIDDIQUIE

CONSULTANTS: NAQVI AND SIDDIQUIE INC. ARCHITECT & ENGINEER BLOCK NO.18 FIRST FLOOR MARKET P-6 ISLAMABAD TEL. 2876769-2270268

STRUCTURE

ELECTRICAL ENGINEER: NAQVI AND SIDDIQUIE INC. ARCHITECT & ENGINEER BLOCK NO.18 FIRST FLOOR MARKET P-6 ISLAMABAD TEL. 2876769-2270268

PLUMBING ENGINEER:

PROJECT ARCHITECT

DATE: SCALE: 1/4"=1'-0" DRAWN BY: FEROZAN AHMAD CHECKED BY: PARVEZ IRFAN

E-01