



Bidding Documents For Construction of External Drainage & Sewerage Works

TENDER DOCUMENT

- INSTRUCTION TO BIDDERS
- BIDDING DATA, CHECK LIST FOR SUBMISSION OF BID, SUPERVISORY STAFF
- FORM OF BID AND APPENDICES TO BID & FORMS & SPECIAL STIPULATIONS
- PART--I: GENERAL CONDITIONS OF CONTRACT
- PART--II: PARTICULAR CONDITIONS OF CONTRACT
- SPECIAL PROVISIONS
- TECHNICAL SPECIFICATION
- LIST OF SPECIFIED MATERIAL
- BILL OF QUANTITIES (SCHEDULE -B)
- TENDER DRAWINGS

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2. BIDDING DATA, CHECK LIST FOR SUBMISSION OF BID, SUPERVISORY STAFF.

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1. INSTRUCTIONS TO BIDDERS

INSTRUCTIONS TO BIDDERS

(Note: These Instructions to Bidders along with bidding data will not be part of the Contract and will cease to have effect once the contract is signed.)

A. GENERAL

IB.1 Scope of Bid

- 1.1 Procuring agency as defined in the bidding data hereinafter called “the procuring agency” wishes to receive bids for the construction and completion of works as described in these bidding documents, and summarized in the bidding data hereinafter referred to as the “Works”.
- 1.2 The successful bidder will be expected to complete the Works within the time specified in Appendix-A to Bid.

IB.2 Source of Funds

- 2.1 The Procuring Agency ((University of Sufism & Modern Sciences, Bhitshah) (USMS) Bhitshah) has received Provincial Government funds for ADP Scheme from the source (s) indicated in the Bidding Data the cost of the project/scheme specified in the Bidding Data and it is intended that part of the proceeds of this funds will be applied to eligible payments under the Contract for which these Bidding Documents are issued.

IB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to all interested bidders who are eligible under provisions of Sindh Public Procurement Rules as mentioned below and the criteria given in the Notice Inviting Tender (NIT)/Bidding Document.

Firms and individuals, national or international, may be allowed to bid for any project where international competitive bidding is feasible. Any conditions for participation shall be limited to those that are essential to ensure the bidder’s capability to fulfill the contract in question.

- a. Bidders may be excluded if;
 - (i) as a matter of law or official regulations, commercial relations are prohibited with the bidder’s country by the federal government in case of ICB, or

- (ii) a firm is blacklisted/debarred by the procuring agency and the matter has been reported to Authority, subject to Rule 30 of Sindh Public Procurement Rules 2010
 - (iii) a firm who has not submitted the tender fee, security deposit.
- b. Government-owned enterprises or institutions may participate only if they can establish that they are;
 - (i) legally and financially autonomous, and
 - (ii) operate under commercial law.

Provided that where government-owned universities or research centers in the country are of a unique and exceptional nature, and their participation is critical to project implementation, they may be allowed to participate; and

Bidders shall include all those contractors who are registered or incorporated in Pakistan, irrespective of the nationality of their owners and professional staff, or

- c. Bidders are:-
 - (i) prequalified with procuring agency for particular project/scheme;
 - (ii) registered with Pakistan Engineering Council in particular category and discipline,
 - (iii) registered with relevant tax authorities (income/sales tax, wherever applicable)

IB.4 One Bid per Bidder

- 4.1 Each bidder shall submit only one bid either by himself, or as a partner in a joint venture. A bidder who submits or participates in more than one bid (other than alternatives pursuant to Clause IB.16) will be disqualified.

IB.5 Cost of Bidding

- 5.1 The bidders shall bear all costs associated with the preparation and submission of their respective bids and the procuring agency will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

IB.6 Site Visit

- 6.1 The bidders are advised to visit and examine the site of works and its surroundings and obtain all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. All cost in this respect shall be at the bidder's own expense.
- 6.2 The bidders and any of their personnel or agents will be granted permission by the Procuring agency to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the bidders, their personnel and agents, will release and indemnify the Procuring agency, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.

B. BIDDING DOCUMENTS**IB.7 Contents of Bidding Documents (SSP Rule 21)**

- 7.1 The Bidding Documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause IB.9.
1. Instructions to Bidders.
 2. Bidding Data, Check List for submission of Bid, Supervisory Staff.
 3. General Conditions of Contract, Part-I (GCC).
 4. Special Conditions of Contract, Part-II (SCC).
 5. Special Provisions
 6. Specifications
 7. Form of Bid & Appendices to Bid.
 8. Bill of Quantities (Appendix-D to Bid).
 9. Form of Bid Security.
 10. Form of Contract Agreement.
 11. Forms of Performance Security and Mobilization Advance Guarantee/Integrity Pact and Indenture bond for secured advance.
 12. Drawings.
- 7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the bidder's own risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IB.8 Clarification of Bidding Documents (SSP Rule 23(1))

- 8.1 Any interested bidder requiring any clarification (s) in respect of the Bidding Documents may notify the procuring agency in writing at the procuring agency's address indicated in the Invitation for Bids/NIT. Procuring agency will respond to any request for clarification provided they are received at least five calendar days prior to the date of opening of bid.

Provided that any clarification in response to query by any bidder; shall be communicated to all parties who have obtained bidding documents.

IB.9 Amendment of Bidding Documents

- 9.1 At any time prior to the deadline for submission of bids, the procuring agency may, for any reason, whether at his own initiative or in response to a clarification requested by a interested bidder, modify the Bidding Documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the bidding documents pursuant to Sub-Clause IB 7.1 hereof and shall be communicated in writing to all bidders. interested bidders shall acknowledge receipt of each addendum in writing to the procuring agency.
- 9.3 To afford bidders reasonable time in which to take an addendum into account in preparing their bids, the procuring agency may extend the deadline for submission of bids in accordance with IB.20

C. PREPARATION OF BIDS

IB.10 Language of Bid

- 10.1 The bid and all correspondence and documents related to the bid exchanged by a bidder and the procuring agency shall be in the language stipulated in the bidding data and Special Conditions of Contract. Supporting documents and printed literature furnished by the bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the bid language, in which case, for purposes of evaluation of the bid, the translation in bid language shall prevail.

IB.11 Documents Accompanying the Bid**11.1 Each bidder shall:**

- (a) submit a written authorization on the letterhead of bidding firm, authorizing the signatory of the bid to act for and on behalf of the bidder;
- (b) update the information indicated and listed in the bidding data and previously submitted with the application for prequalification, and continue to meet the minimum criteria set out in the prequalification documents, which as a minimum, would include the following :
 - (i) Evidence of access to financial resources along with average annual construction turnover;
 - (ii) Financial predictions for the current year and the following two years including the effect of known commitments;
 - (iii) Work commitments since prequalification;
 - (iv) Current litigation information; and
 - (v) Availability of critical equipment.
 and
- (c) furnish a proposal taking into account the various Appendices to Bid specially the following:

Appendix-E to Bid	Proposed Construction Schedule
Appendix-F to Bid	Method of Performing the Work
Appendix-G to Bid	List of Major Equipment
Appendix-K to Bid	Organization Chart for Supervisory Staff

 and other pertinent information such as mobilization programme etc;

11.2 Bids submitted by a joint venture of two (2) or more firms shall comply with the following requirements:

- (a) one of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;
- (b) the bid and in case of a successful bid, the Form of Contract Agreement shall be signed by the authorized partner so as to be legally binding on all partners;
- (c) the partner-in-charge shall always be duly authorized to deal with the procuring agency regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;

- (d) all partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the contract in accordance with the contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(a) above as well as in the Form of Bid and in the Form of Contract Agreement (in case of a successful bid); and
- (e) a copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partner without prior written consent of the procuring agency.
- (f) submission of an alternative Letter of Intent to execute a Joint Venture Agreement shall be mandatory.

11.3 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the bidders' proposals to meet the technical specifications and the completion time referred to sub-clause 1.2 hereof.

IB.12 Bid Prices

12.1 Unless stated otherwise in the bidding documents, the Contract shall be for the whole of the Works as described in IB 1.1 hereof, based on the unit rates or prices submitted by the bidder or percentage quoted above or below on the rates of Composite Schedule of Rates (CSR), as the case may be.

12.2 The bidders shall fill in rates and prices for all items of the works described in the Bill of Quantities. Items against which no rate or price is entered by a bidder will not be paid for by the procuring agency when executed and shall be deemed to be covered by rates and prices for other items in the Bill of Quantities. In case of Composite Schedule of Rates, if the bidder fails to mention the percentage above or below, it shall be deemed to be at par with the rates of Composite Schedule of Rates.

12.3 The bid price submitted by the contractor shall include all rates and price including the

taxes. All duties, taxes and other levies payable by the contractor under the contract, or for any other cause during the currency of the execution of the work of otherwise specified in the contract as on the date seven days prior to the deadline for submission of bid.

Additional / reduced duties, taxes and levies due to subsequent additions or changes in legislation shall be reimbursed / deducted as per Sub-Clause 13.7 of the General Conditions of Contract Part-I.

- 12.4 The rates and prices quoted by the bidders are subject to adjustment during the performance of the Contract in accordance with the provisions of Clause 13.7 of GCC. The bidders shall furnish the prescribed information for the price adjustment formulae in Appendix-C to Bid, and shall submit with their bids such other supporting information as required under the said Clause. Adjustment in prices quoted by bidders shall be allowed as per Sub-Para 4(ii) of section C of Instructions to bidders and bidding data.

IB.13 Currencies of Bid and Payment

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the works supplied from outside the procuring agency country (referred to as the “Foreign Currency Requirements”) shall indicate the same in Appendix-B to Bid. The proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the bidder’s home country or, (ii) at the bidder’s option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in his bid.
- 13.2 The rates of exchange to be used by the bidder for currency conversion shall be the selling rates published or authorized by the State Bank of Pakistan prevailing on the date, 07 (seven) days prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of contract.

IB.14 Bid Validity

- 14.1 Bids shall remain valid for the period stipulated in the bidding data from the Date of Bid Opening specified in Clause IB.23.
- 14.2 In exceptional circumstances, prior to expiry of the original, the procuring agency may request the bidders extend the period of validity for a specified additional, period which shall not be for more than one third of the original period of bid validity. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting of the bid security. In case, a bidder agreed to the request, shall not be required or permitted to modify the bid, but will be required to extend the validity of his bid security for the period of the extension, and in compliance with Clause IB.15 in all respects.

IB.15 Bid Security

- 15.1 Each bidder shall furnish, as part of his bid, a bid security in the amount stipulated in the bidding data in Pak Rupees or an equivalent amount in a freely convertible currency.
- 15.2 The bid security shall be in shape of pay order, call deposit or Bank Guarantee in favour of the procuring agency, which should commensurate with the bid validity period.
- 15.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the procuring agency as non-responsive.
- 15.4 Bid security shall be released to the unsuccessful bidders once the contract has been signed with the successful bidder or the validity period has expired.
- 15.5 The Bid Security of the successful bidder shall be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.
- 15.6 The Bid Security may be forfeited:
- (a) if the bidder withdraws his bid except as provided in Sub-Clause 22.1;
 - (b) if the bidder does not accept the correction of his Bid Price pursuant to Sub-Clause IB 27.2 hereof; or
 - (c) In the case of successful bidder, if he fails within the specified time limit to:
 - (i) furnish the required Performance Security; or
 - (ii) sign the Contract Agreement.

IB.16 Alternate Proposals by Bidder

- 16.1 Each bidder shall submit only one bid either by himself, or as a member of a joint venture, until and unless they have been requested or permitted for alternative bid, then he has to purchase separate bidding documents and alternate bid shall be treated as separate bid.
- 16.2 Alternate proposals are allowed only for procurement of works where technical complexity is involved and more than one designs or technical solutions are being offered. Two stage two envelope bidding procedure will be appropriate when alternate proposal is required.
- 16.3 Alternate bid(s) shall contain (a) relevant design calculations: (b) technical specifications: (c) proposed construction methodology: and (d) any other relevant details / conditions, provided that the total sum entered on the form of bid shall be that which represents complete compliance with the bidding documents.

IB.17 Pre-Bid Meeting

- 17.1 Procuring agency may, on his own motion or at the request of any bidder, hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the bidding documents. The date, time and venue of pre-bid meeting, if convened, shall be communicated to all bidders. All bidders or their authorized representatives shall be invited to attend such a pre-bid meeting at their own expense.
- 17.2 The bidders are requested to submit questions, if any, in writing so as to reach the procuring agency not later than seven (7) days before the proposed pre-bid meeting.
- 17.3 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all bidders. Any modification of the bidding documents listed in Sub-Clause IB 7.1 hereof which may become necessary as a result of the pre-bid meeting shall be made by the procuring agency exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.
- 17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a bidder.

IB.18 Format and Signing of Bid

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the contract strictly in accordance with the bidding documents.
- 18.2 All appendices to bid are to be properly completed and signed.
- 18.3 Alteration is not to be made neither in the form of bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 18.4 Each bidder shall prepare by filling out the forms without alterations and shall provide an original copy along with photocopies as per the requirement of the procuring agency specified in the bidding data. The original as well as copies of the document shall be clearly marked as :ORIGINAL” and “COPY”, as the case may be. If there is any discrepancy between original and copy(ies) then the original shall prevail.
- 18.5 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person(s) duly authorized to sign on behalf of the bidder pursuant to Sub- Clause IB 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person(s) signing the bid.
- 18.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the procuring agency, or as are necessary to correct errors made by the bidder, in which case such corrections shall be initialed by the person(s) signing the bid.
- 18.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper postal addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the contract is to be sent.
- 18.8 Bidders should retain a copy of the bidding documents as their file copy.

D. SUBMISSION OF BIDS**IB.19 Sealing and Marking of Bids**

19.1 Each bidder shall submit his bid as under:

- (a) ORIGINAL Bid Document shall be properly sealed and put in envelope and marked as such.

19.2 The inner and outer envelopes shall:

- (a) be addressed to the procuring agency at the address provided in the bidding data;
- (b) bear the name and identification number of the contract as defined in the bidding data; and
- (c) provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data.

19.3 In addition to the identification required in Sub- Clause IB19.2 hereof, the inner envelope shall indicate the name and postal address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to Clause IB.21

19.4 If the outer envelope is not sealed and marked as above, the procuring agency will assume no responsibility for the misplacement or premature opening of the Bid.

IB.20 Deadline for Submission of Bids

- 20.1
- (a) Bids must be received by the procuring agency at the address specified not later than the time and date stipulated in the Bidding Data.
 - (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims shall be entertained for refund of such expenses.
 - (c) Where delivery of a bid is by mail and the bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package.
 - (d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.

- 20.2 The procuring agency may, at its discretion, extend the deadline for submission of bids by issuing an amendment in accordance with IB.09. In such case all rights and obligations of the procuring agency and the bidders shall remain the same as mentioned in the original deadline.

IB.21 Late Bids

- 21.1 (a) Any bid received by the procuring agency after the deadline for submission of bids prescribed in Clause IB 20 shall be returned unopened to such bidder.
- (b) Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the bidder's responsibility to submit the bid in time.

IB.22 Modification, Substitution and Withdrawal of Bids

- 22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the procuring agency prior to the deadline for submission of bids.
- 22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.
- 22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with to sub-clauses IB 22.1 and IB 27.2.
- 22.4 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 in pursuance to Clause IB.15.

E. BID OPENING AND EVALUATION

IB.23 Bid Opening

- 23.1 The procuring agency will open the bids, including withdrawals, substitution and modifications made pursuant to Clause IB.22, in the presence of bidders' representatives who choose to attend, at the time, date and location stipulated in the bidding data. The bidders or their representatives who are in attendance shall sign an attendance sheet.

- 23.2 Envelopes marked “MODIFICATION”, “SUBSTITUTION” or “WITHDRAWAL” shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to clause IB.22 shall not be opened.
- 23.3 Procuring agency shall read aloud the name of the bidder, total bid Price and price of any Alternate Proposal(s), if any, discounts, bid modifications, substitution and withdrawals, the presence or absence of bid security, and such other details as the procuring agency may consider appropriate, and total amount of each bid, and of any alternative bids if they have been requested or permitted, shall be read aloud and recorded when opened.
- 23.4 Procuring agency shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the sub-clause IB 23.3.

IB.24 Process to be Confidential (SSP Rules 53)

- 24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid evaluation report in accordance with the requirements of Rule 45, which states that procuring agencies shall announce the results of bid evaluation in the form of a report giving reasons for acceptance or rejection of bids. The report shall be hoisted on website of authority and that of procuring agency if it website exists and intimated to all bidders at least seven (7) days prior to the 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. Any effort by a bidder to influence the procuring agency’s processing of bids or award decisions may result in the rejection of such bidder’s bid. Whereas, any bidder feeling aggrieved, may lodge a written complaint as per Rule 31; however mere fact of lodging a complaint shall not warrant suspension of procurement process.

IB.25 Clarification of Bids (SSP Rules 43)

- 25.1 To assist in the examination, evaluation and comparison of bids, the procuring agency may, at his discretion, ask any bidder for clarification of his bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the procuring agency in the evaluation of the bids in accordance with Clause IB.28.

IB.26 Examination of Bids and Determination of Responsiveness

- 26.1 Prior to the detailed evaluation of bids, the procuring agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfills any of these conditions, it shall not be evaluated further.
- 26.2 Once found to be fulfilling the eligibility criteria, as mentioned in sub-clause 26.1, the bid of eligible bidders will be evaluated for technical responsiveness as per specification and criteria given in the bidding documents. Technical and financial evaluations may be carried out in accordance with single stage-single on envelope, single stage-two envelopes bidding procedures, depending on the selection procedure adopted by the procuring agency.
- 26.3 A bid will be considered technically responsive if it (i) has been properly signed; (ii) is accompanied by the required bid security; and (iii) conforms to all the terms, conditions and specifications of bidding documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the works; (ii) which limits in any substantial way, inconsistent with the bidding documents, the procuring agency's rights or the bidder's obligations under the contract; or (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 26.4 If a bid has major deviations to the commercial requirements and technical specifications will be considered technically non responsive. As a general rule, major deviations are those that if accepted, would not fulfill the purposes for which the bid is requested, or would prevent a fair comparison or affect the ranking of the bids that are compliant with the bidding documents.

(A) Major (material) Deviations include:-

- (i) has been not properly signed;
- (ii) is not accompanied by the bid security of required amount and manner;
- (iii) stipulating price adjustment when fixed price bids were called for,
- (iv) failing to respond to specifications;

- (v) failing to comply with Mile-stones/critical dates provided in bidding documents;
- (vi) sub-contracting contrary to the Conditions of Contract specified in bidding documents;
- (vii) refusing to bear important responsibilities and liabilities allocated in the bidding documents, such as performance guarantees and insurance coverage,
- (viii) taking exception to critical provisions such as applicable law, taxes and duties and dispute resolution procedures;
- (ix) a material deviation or reservation is one:
 - (a) which affect in any substantial way the scope, quality or performance of the works
 - (b) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

(B) Minor Deviations

Bids that offer deviations acceptable to procuring agency and which can be assigned a monetary value may be considered substantially responsive at least as to the issue of fairness. This value would however be added as an adjustment for evaluation purposes only during the detailed evaluation process.

26.5 If a bid is not substantially responsive, it will be rejected by the procuring agency, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

IB.27 Correction of Errors

- 27.1 Bids determined to be substantially responsive will be checked by the procuring agency for any arithmetic errors. Errors will be corrected by the procuring agency as follows:
- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
 - (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern,

unless in the opinion of the procuring agency there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.

- 27.2 The amount stated in the Form of Bid will be adjusted by the procuring agency in accordance with the above procedure for the correction of errors and with the concurrence of the bidders. The amount thus corrected shall be considered as binding upon the bidder. If the bidder does not accept the corrected bid price, his bid will be rejected, and the bid security shall be forfeited in accordance with sub- clause IB 15.6(b) hereof.

IB.28 Evaluation and Comparison of Bids

- 28.1 The procuring agency will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26.
- 28.2 In evaluating the Bids, the procuring agency will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:
- (a) making any correction for errors pursuant to Clause IB.27;
 - (b) excluding provisional sums (if any), for contingencies in the Summary Bill of Quantities, but including competitively priced Day work; and
 - (c) making an appropriate adjustment for any other acceptable variation or deviation.
- 28.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.
- 28.4 If the Bid of the successful bidder is seriously unbalanced in relation to the procuring agency estimate of the cost of work to be performed under the Contract, the procuring agency may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the procuring agency may require that the amount of the Performance Security set forth in Clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the procuring agency against financial loss in the event of default of the successful bidder under the Contract.

28.5 Bidders may be excluded if involved in **“Corrupt and Fraudulent Practices”** means either one or any combination of the practices given below SPP Rule2 (q);

- (i) **“Coercive Practices”** means any impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;
- (ii) **“Collusive Practice”** means any arrangement between two or more parties to the procurement process or contract execution, designed to achieve with or without the knowledge of procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;
- (iii) **“Corrupt Practices”** means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
- (iv) **“Fraudulent Practice”** means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- (v) **“Obstructive Practice”** means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit rights provided for under the Rules.

28.6 Evaluation Report (SPP Rule 45)

After the completion of evaluation process, as described in clauses IB 27 and IB 28, the procuring agency shall announce the results of bid evaluation in the form of report (available on the website of the authority) giving reasons for acceptance and rejection of bid. The report shall be hoisted on website of the authority and that of procuring agencies if its website exists and intimated to all bidders at least seven (7) days prior to the award of contract.

F. AWARD OF CONTRACT**IB.29 Award**

- 29.1 Subject to Clauses IB.30 and IB.34 and provision of the Rule. The procuring agencies shall 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, but not necessarily the lowest submitted price, within the original or extended period of bid validity. Provided that such bidder has been determined to be eligible in accordance with the provisions of clause IB 03 and qualify pursuant to sub-clause IB 29.2.
- 29.2 Procuring agency, at any stage of the bid evaluation, having credible reasons for or having *prima facie* evidence of any deficiency(ies) in contractor's capacities, may require the contractors to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not for the said project.

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

IB.30 Procuring Agency's Right to reject all Bids or Annul/Cancellation the Bidding Process (SPP Rule25)

Notwithstanding Clause IB.29 and provision of the rule: (1) A procuring agency reserve may cancel the bidding process at any time prior to the acceptance of a bid or proposal; (2) The procuring agency shall incur no liability towards bidders solely by virtue of its invoking sub-rule (1); (3) Intimation of the cancellation of bidding process shall be given promptly to all bidders and bid security shall be returned along with such intimation; (4) The procuring agency shall, upon request by any of the bidders, communicate to such bidder, grounds for cancellation of the bidding process, but is not required to justify such grounds.

IB.31 Notification/Publication of the Award of Contract (SPP Rule 25).

- 31.1 Prior to expiry of the period of bid validity, including extension, prescribed by the procuring agency, the procuring agency shall notify the successful bidder in writing ("Letter of Acceptance") that his Bid has been accepted. This letter shall mention the sum which the procuring agency will pay the Contractor in consideration of the

execution and completion of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called the "Contract Price").

- 31.2 No Negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, procuring agency may hold meetings to clarify any item in the bid evaluation report.
- 31.3 The notification of award and its acceptance by the bidder will constitute the formation of the Contract, binding the procuring agency and the bidder till signing of the formal Contract Agreement.
- 31.4 Upon furnishing by the successful bidder of a Performance Security and signing of the contract, the procuring agency will promptly notify the name of the successful bidder to all bidders and return their bid securities accordingly.
- 31.5 Within seven days of the award of contract, procuring agency shall publish on the website of the Authority and on its own website if such a website exists, the results of the bidding process, identify the bid through procurement identifying numbers, and the following information;
 - 1) Evaluation Report;
 - 2) Firm of Contract and letter of Award;
 - 3) Bill of Quantities or Schedule of Requirement.
- 31.6 Debriefing (SPP Rule 51)**
 - (a) A bidder may ask the procuring agency for reasons for non acceptance of his bid and may request for a debriefing meeting and procuring agency shall give him the reason for such non acceptance either in writing or by holding a debriefing meeting with such a bidder.
 - (b) The request bidder shall bear all the cost of attending such a debriefing.

IB.32 Performance Security (SPP Rule 39)

- 32.1 The successful bidder shall furnish to the procuring agency a Performance Security in the form of pay order or demand draft or bank guarantee, and the amount stipulated in the Bidding Data and the Conditions of Contract within a period of 28 days after the receipt of Letter of Acceptance.

- 32.2 Failure of the successful bidder to comply with the requirements of sub-clause IB.32.1 or Clauses IB.33 or IB.35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.
- 32.3 validity of performance security shall extend at least ninety days beyond the date of completion of contract, or as mentioned in the bidding data to cover defects liability period or maintenance period subject to final acceptance by the procuring agency.

IB.33 Signing of Contract Agreement (SPP Rule 39)

- 33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the procuring agency will send the successful bidder the Contract Agreement in the form provided in the bidding documents, incorporating all agreements between the parties.
- 33.2 The formal Agreement between the procuring agency and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the procuring agency.
- 33.3 A procurement contract shall come into force when the procuring agency requires signs contract, the date on which the signature of both the procuring agency and the successful bidder affixed to the written contract. Such affixing of signature shall take place within the time prescribed in the bidding documents.

Provided that the procuring agency may reduce the maximum time limit for signing of contract, as and when required, and shall be mentioned in the bidding documents.

33.4 Stamp duty

The formal Agreement between the procuring agency and the successful bidder shall be duly stamped at rate of 0.35% of bid price (updated from time to time) stated in Letter of Acceptance.

IB.34 General Performance of the Bidders

Procuring agency may in case of consistent poor performance of the contractor and his failure to remedy the underperforming contract may take such action as may be deemed appropriate under the circumstances of the case including the rescinding the contract and/or blacklisting of such contractor and debarring him from participation in future bidding process.

IB.35 Integrity Pact (SPP Rule 89)

The Bidder shall sign and stamp the Integrity Pact provided at Appendix-L to the bidding documents for all principal/local Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

IB.36 Instructions not Part of Contract

Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist bidders in preparing their bids, and do not constitute part of the Bid or the Contract Documents.

IB.37 Arbitration (SPP Rule 34)

Any dispute that is not amicably resolved shall be finally settled, unless otherwise specified in the Contract, under the Arbitration Act 1940 updated from time to time and would be held anywhere in the province of Sindh at the discretion of procuring agency.

**2. BIDDING DATA, CHECK LIST FOR
SUBMISSION OF BID, SUPERVISORY
STAFF.**

CONTRACT / BIDDING DATA

The following specific data for the Works to be tendered shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

Instructions to Bidders

Clause Reference

- 1.1 Name and address of the procuring agency:
((University of Sufism & Modern Sciences, Bhitshah) (USMS) Bhitshah)
- 1.2 Name of the Project & Summary of the Works:
Construction of External Drainage & Sewerage Works
- 2.1 Name of the Borrower/Source of Financing/Funding Agency: **ADP Scheme # 730 of 2026-27,**
- 2.1 Amount and type of financing/Scheme Cost & Allocated Funds:

- 3.1 Eligible Bidders
1.1 c. (i) is deleted and substituted as under:-
"3.1 c (i) Open to all bidders on single stage single envelopes basis for particular project/scheme"
- 8.1 Time limit for clarification: **(05) Five days before tender opening**
- 10.1 Bid language: **English**
- 11.1 (a) Prequalification Information to be updated (where applicable): *N/A*
- 11.1 (b) Company Profile in single stage two envelope:
Documentary evidence of similar assignment and experience in respect of Personal/Machinery with cost under taken over the past 5 years and certificate of satisfactory completion showing date of start and completion from employer. Bidders are required to submit the minimum mandatory information/document mentioned in bidding documents on (Page BD-4) to meet the project requirement.
- 13.1 Bidders to quote entirely in Pak. rupees
- 14.1 Period of Bid Validity: **90 days**
- 15.1 Amount of Bid Security: **Rs. 3,500,000**
- 17.1 Venue, time, and date of the pre-Bid meeting:
As per NIT
- 18.4 Number of copies of the Bid to be completed and returned:
One Original.
- 19.2 (a) *Procuring agency's address for the purpose of Bid submission: Office of the Project Director, University of Sufism and Modern Sciences Bhitshah.*

19.2 (b) Name and Identification Number of the Contract:
NIT NO. N / A

20.1 (a) Deadline for submission of bids: **As per NIT**
 (b) Venue, time, and date of Bid opening:
Office of the Project Director,
((University of Sufism & Modern Sciences,
Bhitshah) (USMS) Bhitshah) on - - 2026 @ 11.00 AM

32.1 Standard form and amount of Performance Security acceptable to the procuring agency:

The successful bidder shall furnish to the Employer a Performance Security in the form of unconditional Bank Guarantee from a Schedule Bank for an amount of Rs.10% (ten percent) of the Contract Price stated in the Letter of Acceptance in accordance with the Conditions of Contract within a period of 14 (fourteen) days after the receipt of Letter of Acceptance.

32.3 Stamp duty

0.35% will be paid by successful bidder as stamp duty.
 [% will depend upon the rules]

CHECK LIST FOR SUBMISSION OF BID

The Contractor is required to submit the following minimum mandatory documentary information with technical evaluation for financial bid. The Contractor should check the attachment along with proper index/separators before submission of the bid.

Sr. No	Description	Yes	No
1.	Valid PEC registration certificate		
2.	FBR active taxpayer		
3.	SRB active taxpayer		
4.	List of similar assignment 03 years		
5.	Office equipment and machinery details		
6.	Audit reports last 03 years		
7.	List of litigations		
8.	Affidavit that firm has never been blacklisted		
9.	List of Engineers employed along with their CVs. and PEC registration certificate.		
10.	Concrete mixing machine (D.L) 2Nos.		
11.	Steel cutting & Bending Machine 01 No		
12.	Generator Set (Min.100 kVA) 01 No		
13.	Vibrators 02 No		
14.	Steel Formwork 40,000 sft.		
15.	Scaffolding pipes with joint 35,000 Rft.		
16.	Level with tripod, staff rod & Total Station 01 No		
17.	Concrete compression machine (automatic for cylinder) 01 No		

Note:

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

Signature by the contractor

**ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF**
(to be filled and signed by the Bidder)

Following is a list of Minimum Mandatory Staff Requirement to be deployed at site immediately by the Contractor upon commencement of works:

Designation	Nos.	Minimum Qualification	Min. Relevant Working Experience
Project Manager	01	B.Sc. Civil Engr. with valid PEC Regd.	10 years
Quantity Surveyor	01	Diploma in Civil	10 years
Site Supervisor	03	Diploma in Civil	10 years
Field Surveyor	02	Diploma in Civil	10 years

Signature by the contractor

Note:

The Bidders are required to attach CV's of Minimum Mandatory Staff.

**3. FORM OF BID
AND
APPENDICES TO BID**

FORM OF BID

Bid Reference No. _____
(Name of Contract/Works)

To:

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract. Specifications, Drawings and Bill of Quantities and Addenda Nos. _____ for the execution of the above-named Work, we/I, the undersigned, offer to execute and complete the Work and remedy any defects therein in conformity with the Conditions of Contract. Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. _____ (Rupees _____) or such other sum as may be ascertained in accordance with the said conditions.
2. We/I understand that all the Appendices attached hereto form part of this Bid.
3. As security for due performance of the undertakings and obligations of this Bid, we/I submit herewith a Bid Security in the amount of Rupees _____ (Rs. _____) drawn in your favour or made payable to procuring agency and valid for a period of _____ days beginning from the date, Bid is opened.
4. We/I undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in Appendix-A to Bid.
5. We/I agree to abide by this Bid for the period of _____ days from the date fixed for opening 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 do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the Works.
8. We understand that you are not bound to accept the lowest or any Bid you may receive.
9. We undertake, if our/my bid is accepted, to execute the performance security referred to in clause 10 of Conditions of Contract for the due

performance of the Contract.

10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the procuring agency.
(please delete this in case of bid form a single bidder)

in the capacity of _____duly authorized to sign Bids for and on behalf of
Dated this _____day of _____20_____

Signature: _____

(Name of Bidder in Block Capitals)
(Seal)

Address:

Witness:

Signature: _____

Name: _____

Address. _____

Occupation _____

SPECIAL STIPULATIONS**Clause****Conditions of Contract**

1.	Engineer's representing Consulting Firm hired by the procuring agency to issue Variation in case emergency.	3.1	2% of the Contract Price stated in the Letter of Acceptance.
2.	Amount of Performance Security/ Guarantee	4.2	Bank Guarantee to be obtained from Scheduled Bank in Pakistan or insurance bond obtained from AA rating company for a sum equivalent to 10% of Contract Price stated in the Letter of Acceptance for the whole completion period and also for Defect Liability Period.
3.	Time for Furnishing Programme	8.3	Within 14 days from the date of receipt of Letter of Acceptance.
4.	Minimum amount of Third Party Insurance	18.3	
5.	Time for Commencement	8.1	Within 14 days from the date of receipt of Engineer's Notice to Commence this shall be issued within fourteen (14) days after signing of Contract Agreement.
6.	Time for Completion (work & sections)	8.2, 10.2	180 (one hundred eighty) days from the date of receipt of Engineer's Notice to Commence.
7.	Amount of Liquidated Damages/Delay Damages/Penalties	8.7	0.05% (zero point zero five percent) Damages per day (are to be mentioned) but total amount will not be more than 10% of contract price.
8.	Defects Liability Period	11.1	365 (three hundred sixty five days from the effective date of Taking Over Certificate.
9.	Percentage of Retention Money	14.2	05% of the amount of Interim/ Running Payment Certificate.
10.	Limit of Retention Money	14.2	05 % of Contract Price stated in the Letter of Acceptance.
11.	Minimum amount of Interim/ Running Payment Certificates.	14.2	Mini 05% of the total work.
12.	Time of Payment from delivery of Engineer's Interim/ Running Payment Certificate to the procuring agency.	14.7	Interim Payment Certificate issued by the Engineer (within 20 days of submission) pursuant to this Clause shall be paid by the Employer to the Contractor within 30 days after such Interim Payment Certificate has been delivered to the Employer.
13.	Mobilization Advance	14.2	10% (ten percent) of Contract Price stated in the Letter of Acceptance.

FOREIGN CURRENCY REQUIREMENTS

1. The Bidder may indicate herein below his requirements of foreign currency (if any), with reference to various inputs to the Works.
2. Foreign Currency Requirement as percentage of the Bid Price excluding Provisional Sums _____%.
3. Table of Exchange Rates

Unit of Currency	Equivalent in Pak. Rupees
Australian Dollar	-----
Euro	-----
Japanese Yen	-----
U.K. Pound	-----
U.S. Dollars	-----
-----	-----
-----	-----

NOT APPLICABLE

**PRICE ADJUSTMENT UNDER CLAUSE 70/13.8
OF CONDITIONS OF CONTRACT**

A. Weight ages or coefficients are used for price adjustment.

The source of indices and the weight ages or coefficients for use in the adjustment formula under Clause 13.8 shall be as follows:

(To be filled by the procuring agency)

Cost Element	Description	Weight ages	Applicable index
1	2	.3	4
(i)	Fixed Portion	0.45	
(ii)	Local Labour	0.17	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement – in bags	0.1	“ “ “
(iv)	Reinforcing Steel	0.14	“ “ “
(v)	High Speed Diesel (HSD)	0.05	“ “ “
(vi)	Bricks	0.09	“ “ “
	Total	1.000	

Notes:

- 1) Indices for “(ii)” to “(vii)” are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 15 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the billing period.
- 2) Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.
- 3) Fixed portion shown here is for typical road project, procuring agency to determine the weight age of Fixed Portion considering only those cost elements having cost impact of seven (7) percent or more on his specific project.

B. When Escalation is allowed on the material only.

Price adjustment of following items shall be allowed:

Cost Element	Description	Base Price	Applicable index
1	2	3	4
(i)	Cement – in bags		Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(ii)	Reinforcing Steel		“ “ “
(iii)	Bricks		“ “ “
(iv)	Bitumen		“ “ “
(v)	Wood (Composite item)		“ “ “
	Total five items.		

BILL OF QUANTITIES

A. Preamble

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract (in case of item not mentioned in Bill of Quantities).
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 14 days prior to deadline for submission of Bids in case of ICB/NCB respectively, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities and shall not be paid separately.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
6. General directions and description of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 13.5 of Part I, General Conditions of Contract.
8. Cartage on all items shall not be payable separately and that the bid offered or premium quoted by the bidder shall be included cost of cartage.
9. Additional excavation for working space shall not be payable.
10. Income Tax, Sales Tax and all other Liabilities to be paid by the Contractor as per latest orders/notification or as per law of Pakistan and that the bid offered or premium quoted by the bidder shall be included cost of such liabilities.

11. Besides PWD specification, specification attached with Contract Documents shall be applicable subject to discretion of the Engineer/Employer (wherever appropriate).
12. All formwork shall be used of steel plates and cost that must be included in the bid offered or premium quoted by the bidder. No separate payment shall be applicable.
13. Steel reinforcement used shall be Deform Steel Grade 40 & 60 as described in BOQ . The Contractor shall quote premium as per specified deformed grade 40 & 60 and no additional payment shall be permissible in this account.

BILL OF QUANTITIES

B. Work Items (Road/PHE Work)*

1. The Bill of Quantities contains the following Bills and items:

Bill No. 1	-	Earthworks
Bill No. 2	-	Hard Crust and Surface Treatment
Bill No. 3	-	Culverts and Bridges
Bill No. 4	-	Subsurface Drains, Pipe Laying and Man holes
Bill No. 5	-	Tube wells, Pump houses and Compound Wall
Bill No. 6	-	Miscellaneous Items

Daywork Schedule
Summary Bill of Quantities

2. Bidders shall price the Bill of Quantities in Pakistani Rupees only.

** procuring agency can add and delete the items as per its requirement.*

NOT APPLICABLE

BILL OF QUANTITIES

B. Work Items (Buildings)*

1. The Bill of Quantities contains the following Bills and items:

Bill No. 1	-	Plinth and Foundation
Bill No. 2	-	Ground Floor
Bill No. 3	-	First and Subsequent Floors
Bill No. 4	-	Internal Water Supply and Sanitary Fittings
Bill No. 5	-	Internal Electrification
Bill No. 6	-	Miscellaneous Items
Bill No. 7	-	External Development

Daywork Schedule
Summary Bill of Quantities

2. Bidders shall price the Bill of Quantities in Pakistani Rupees only.

* *procuring agency can add and delete the items as per its requirement.*

NOT APPLICABLE

BILL OF QUANTITIES**C. Day work Schedule****General**

1. Reference is made to Sub-Clause 13.6 of the General Conditions of Contract. Work shall not be executed on a day work basis except by written order of the Engineer. Bidders shall enter basic rates for day work items in the Schedules, which rates shall apply to any quantity of day work ordered by the Engineer. Nominal quantities have been indicated against each item of day work, and the extended total for day work shall be carried forward to the Bid Price.

Day work Labour

2. In calculating payments due to the Contractor for the execution of day work, the actual time of classes of labour directly doing the day work ordered by the Engineer and for which they are competent to perform will be measured excluding meal breaks and rest periods. The time of gangers (charge hands) actually doing work with the gang will also be measured but not the time of foreman or other supervisory personnel.
3. The Contractor shall be entitled to payment in respect of the total time that labour is employed on Daywork, calculated at the basic rates entered by him in the Schedule of Daywork Rates for labour together with an additional percentage, payment on basic rates representing the Contractor's profit, overheads, etc., as described below:
 - a) the basic rates for labour shall cover all direct costs to the Contractor, including (but not limited to) the amount of wages paid to such labour, transportation time, overtime, subsistence allowances and any sums paid to or on behalf of such labour for social benefits in accordance with Pakistan law. The basic rates will be payable in local currency only; and
 - b) the additional percentage payment to be quoted by the Bidder and applied to costs incurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities and insurances and allowances to labour timekeeping and clerical and office work; the use of consumable stores, water, lighting and power; the use and repair of stagings, scaffolding, workshops and stores, portable power tools, manual plant and tools; supervision by the Contractor's staff, foremen and other supervisory personnel; and charges incidental to the foregoing.

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

I. Labour

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words	Extended Amount (Rs.)
1	2	3	4	5	6	7
D101	Ganger	Hr	500			
D102	Labourer	Hr	5,000			
D103	Brick layer	Hr	500			
D104	Mason	Hr	500			
D105	Carpenter	Hr	500			
D106	Steel work Erector	Hr	500			
	-----etc-----	Hr	500			
D113	Driver for vehicle up to 10 tons	Hr	1,000			
D114	Operator for excavator, dragline, shovel or crane	Hr	500			
D115	Operator for tractor, (tracked) with dozer blade or ripper	Hr	500			
D122	Sub Total Allow _____ percent of subtotal for Contractor's overhead, profit, etc, in accordance with Paragraph 3(b) of Daywork Schedule _____ Total for Daywork: Labour : _____ (Carried forward to Daywork Summary)					

Appendix-D to Bid**Day work Material**

4. The Contractor shall be entitled to payment in respect of materials used for Daywork (except for materials for which the cost is included in the percentage addition to labour costs as detailed heretofore), at the basic rates entered by him in the Schedule of Daywork Rates for materials together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:
 - a) the basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the site. The basic rates shall be stated in local currency but payment will be made in the currency or currencies expended upon presentation of supporting documentation;
 - b) the additional percentage payment shall be quoted by the Bidder and applied to the equivalent local currency payments made under Sub-Para(a) above; and
 - c) the cost of hauling materials used on work ordered to be carried out as Day work from the store or stockpile on the site to the place where it is to be used will be paid in accordance with the terms for Labour and Constructional Plant in this Schedule.

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

II. Materials

Item No.	Description	Unit	Nominal Quantity	Rate (Rs) in Figure	Rate (Rs) in Words)	Extended Amount (Rs.)
1	2	3	4	5	6	7
D201	Cement, ordinary Portland or equivalent in bags	M: Ton	200			
D202	Mild Steel reinforcing bar upto 16mm diameter to BS 4449 or equivalent	M: Ton	100			
D203	Fine aggregate for concrete as specified in Clause _____	Cu: M	1,000			
D204	-----etc-----					
D222	Gelignite (Noble Special Gelatine 60 % or equivalent) including caps, fuse, wire and requisite accessories	M: Ton	10			
D223	Sub Total Allow _____ percent of subtotal for Contractor's overhead, profit, etc., in accordance with Paragraph 4(b) of Daywork Schedule Total for Daywork: Materials _____ (Carried forward to Daywork Summary)					

Appendix-D to Bid**Daywork Constructional Plant**

5. The Contractor shall be entitled to payments in respect of constructional plant already on Site and employed on Daywork at the basic rental rates entered by him in the Schedule of Daywork Rates for constructional plant. The said rates shall be deemed to include complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants will be paid for separately as described under the section on Day work labour.
6. In calculating the payment due to the Contractor for constructional plant employed on Daywork, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the travelling time from the part of the Site where the constructional plant was located when ordered by the Engineer to be employed on day work and the time for return journey thereto shall be included for payment.
7. The basic rental rates for constructional plant employed on Daywork shall be stated in Pakistani Rupees.

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

III. Constructional Plant

Item No.	Description	Unit	Nominal Quantity	Rate (Rs.) in Figure	Rate Rs.) in Words	Extended Amount (Rs.)
1	2	3	4		5	6
D301	Excavator ,face shovel or dragline:					
	1. Up-to and including 1 Cu.M.	Hr	500			
	2. Over 1 Cu.M to 2 Cu. M.	Hr	400			
	3. Over 2 Cu. M	Hr	100			
D302	Tractor (tracked) including bull or angle dozer:					
	1. Up-to and including 150 HP	Hr	500			
	2. Over 150 to 200 HP	Hr	400			
	3. Over 200 to 250 HP	Hr	200			
D303	Tractor with ripper:					
	1. Up-to and including 200 HP	Hr	400			
	2. Over 200 to 250 HP	Hr	200			
D304	-----etc-----					
	Total for Daywork: Constructional Plant _____ (Carried forward to Daywork Summary)					

Appendix-D to Bid

DAYWORK

Summary (Daywork)

		Amount (Rs.)
(I)	Total for day work: Labour	_____
(II)	Total for day work : Materials	_____
(III)	Total for day work: Constructional Plant	_____
Total for day work		_____
(Carried forward to Summary Page of Bill of Quantities)		

BILL OF QUANTITIES**SUMMARY**

		Amount (Rs.)
Fittings	Bill No. 1:	Earthworks/ Plinth and Foundation
	Bill No. 2:	Culverts and Bridges/ Ground Floor
	Bill No. 3:	Subsurface Drains/ Internal Water Supply and Sanitary
	Bill No. 4:	Subsurface Drains/Pipe Laying and Man holes/ Internal Water Supply and Sanitary Fittings
	Bill No. 5:	Tube wells and Pump Houses/ Internal Electrification
	Bill No. 6:	Miscellaneous Items
	Bill No. 7:	External Development
Sub-Total of Bills		_____
Day work		_____
Bid Price		_____

Note: All Provisional Sums are to be expended in whole or, in part at the direction and discretion of the Engineer in accordance with Sub-Clauses 52.4 and 58.2 of the General Conditions of Contract Part- I.

Appendix-E to Bid

PROPOSED CONSTRUCTION SCHEDULE

Pursuant to Sub-Clause 43.1 of the General Conditions of Contract, the Works shall be completed on or before the date stated in Appendix-A to Bid. The Bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and parts of the Works may meet procuring agency's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence (Attach sheets as required for the specified form of Construction Schedule):

<u>Description</u>	<u>Time for Completion</u>
1) Whole Works	_____days
2) Part-A	_____days
3) Part-B	_____days
4) _____	_____days
5) _____	_____days

Appendix-F to Bid

METHOD OF PERFORMING THE WORK

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

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.]

Appendix-G to Bid

LIST OF MAJOR EQUIPMENT – RELATED ITEMS

[The Bidder will provide on Sheet 2 of this Appendix 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.]

Appendix-G to Bid

LIST OF MAJOR EQUIPMENT

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

Appendix-H to Bid

CONSTRUCTION CAMP AND HOUSING FACILITIES

The Contractor in accordance with Clause 6 of the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements.

The Contractor shall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the Contractor's construction camp.

The Bidder shall list or explain his plans for providing these facilities for the service of the Contract as follows:

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
 - a) Power (expected power load, etc.).
 - b) Water (required amount and system proposed).
 - c) Sanitation (sewage disposal system, etc.).
3. Construction of Facilities
 - a) Contractor's Office. Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).
 - b) Warehouses and Storage Areas (area required, type of construction and layout).
 - c) Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.).
4. Construction Equipment Assembly and Preparation (detailed plans for carrying out this activity).
5. Other Items Proposed (Security services, etc.).

Appendix-I to Bid**LIST OF SUBCONTRACTORS**

I/We intend to subcontract the following parts of the Work to subcontractors. In my/our opinion, the subcontractors named hereunder are reliable and competent to perform that part of the work for which each is listed.

Enclosed are documentation outlining experience of subcontractors, the curriculum vitae and experience of their key personnel who will be assigned to the Contract, equipment to be supplied by them, size, location and type of contracts carried out in the past.

Part of Works (Give Details)	Subcontractor (With Complete Address)
1	2

Appendix-J to Bid

ESTIMATED PROGRESS PAYMENTS

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Programme of the Works and the Rates in the Bill of Quantities, expressed in thousands of Pakistani Rupees:

Quarter/ Year/ Period	Amounts (1,000 Rs.)
1	2
1st Quarter	
2 nd Quarter	
3 rd Quarter	
4 th Quarter	
5 th Quarter	
6 th Quarter	
7 th Quarter	
8 th Quarter	
9 th Quarter	
Bid Price	

BK-1

Appendix-K to Bid

**ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF AND LABOUR**

(To be filled in by the bidder)

(INTEGRITY PACT)

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.
PAYABLE BY CONTRACTORS**

(For CONTRACTS WORTH RS. 10.00 MILLION OR MORE)

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

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

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, 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 procuring agency, except that which has been expressly declared pursuant hereto.

[name of Contractor] accept full responsibility and strict liability 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 procuring agency and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Contractor] 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 procuring agency under any law, contract or other instrument, be voidable at the option of procuring agency.

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

.....
[Procuring agency]

[Contractor]

4. FORMS

BID SECURITY

PERFORMANCE SECURITY

CONTRACT AGREEMENT

MOBILIZATION ADVANCE GUARANTEE/BOND

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 'procuring agency ') 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 procuring agency; and

WHEREAS, the procuring agency 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 procuring agency, 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 procuring agency, notice of which extension(s) to the Surety is hereby waived;
- (2) that the Bid Security of unsuccessful Bidders will be returned by the procuring agency 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 procuring agency 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 therefor, on the prescribed form presented to him for signature enter into a formal Contract with the said procuring agency 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 procuring agency 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 procuring agency the said sum upon first written demand of the procuring agency (without cavil or argument) and without requiring the procuring agency to prove or to show grounds or reasons for such demand, notice of which shall be sent by the procuring agency by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the procuring agency 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 procuring agency 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:

1.

Corporate Secretary (Seal)

2.

Name, Title & Address

Signature

Name

Title

Corporate Guarantor (Seal)

FORM OF PERFORMANCE SECURITY
(Bank Guarantee)

Guarantee No. _____

Executed on _____

Expiry date _____

[Letter by the Guarantor to the procuring agency]

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 procuring agency) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said procuring agency, 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 procuring agency'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 procuring agency, 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 procuring agency without delay upon the procuring agency's first written demand without cavil or arguments and without requiring the procuring agency to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the procuring agency '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 procuring agency's designated Bank & Account Number.

PROVIDED ALSO THAT the procuring agency 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 procuring agency 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 _____

Corporate Secretary (Seal)

Name _____

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 "procuring agency") of the one part and _____ (hereafter called the "Contractor") of the other part.

WHEREAS the procuring agency 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, 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 Contract Agreement;
 - (b) The Letter of Acceptance;
 - (c) The completed Form of Bid;
 - (d) Special Stipulations (Appendix-A to Bid);
 - (e) The Special 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 L);
 - (i) The Drawings;
 - (j) The Specifications.
 - (k) _____(any other)
3. In consideration of the payments to be made by the procuring agency to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the procuring agency to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.

4. Procuring agency 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 Procuring agency

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

(Name, Title and Address)

Witness:

(Name, Title and Address)

MOBILIZATION ADVANCE GUARANTEE/BOND

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'procuring agency') has entered into a Contract for _____

(Particulars of Contract)

with _____ (hereinafter called the "Contractor").

AND WHEREAS, the procuring agency 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 procuring agency 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 procuring agency 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 procuring agency for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the procuring agency shall be the sole and final judge, on the part of the Contractor, shall be given by the procuring agency 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)

[Notes on the Conditions of Contract

The Conditions of Contract comprise two parts:

(a) Part I - General Conditions of Contract

(b) Part II - Special 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 March 2006).

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 procuring agency. 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 procuring agency 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.*

* Add the following text if the bidding documents, as issued, do not include a copy:

“Copies of the FIDIC Conditions of Contract can be obtained from:

FIDIC Secretariat

P.O. Box 86

1000 Lausanne 12

Switzerland

e-mail: fidic.pub@fidic.org – FIDIC.org/bookshop]

5. PART- I : GENERAL CONDITIONS OF CONTRACT

6. PART-II: SPECIAL/PARTICULAR CONDITIONS OF CONTRACT

TABLE OF CONTENTS

PART II - SPECIAL/PARTICULAR CONDITIONS OF CONTRACT

Clause	Title	Page
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20.5 Amicable Settlement.

20.6 Arbitration

20.7 Failure to comply with Dispute Board's Decision

20.8 Expiry of Dispute Board's Appointment

PART II - PARTICULAR CONDITIONS OF CONTRACT

1.1 Definitions

1.1.1.4 "Form of Bid" is synonymous with "Letter of Tender".

1.1.1.5 "Bid" is synonymous with "Tender".

1.1.1.10 "Bidding" is synonymous with "contract".

The following paragraph is added:

1.1.1.11 "Programme" means the programme to be submitted by the contractor in accordance with Sub-Clause 8.3 and any approved revisions thereto.

1.12.2 "Employer" is synonymous with "Procuring Agency"

1.1.2.9 "DB" is synonymous with "Committee".

1.1.3.1 Replace 28 days by 7 days in LCB and 15 days in ICB..

1.1.3.7 "Defects notification Period" is synonymous with "Defects liability Period".

1.15 Inspections and Audit by the Bank

Deleted

Procuring Agency can retain this clause with or without changes, in case of contracts under Project, Bank and donor's programme.

1.5 Priority of Documents

Delete the documents listed at (a) to (i) of the Sub-Clause and substitute with the following:

- a) The Contract Agreement;
- b) The Letter of Acceptance;
- c) Special Stipulations (Appendix-A to Bid);
- d) The Particular Conditions of Contract – Part II;
- e) Special Provisions;
- f) The General Conditions of Contract – Part I;
- g) The completed Form of Bid
- h) The completed Appendices to Bid
- i) The Specifications, Technical Provisions;
- j) The Drawings;
- k) The Estimates; (Schedule -B)

If an ambiguity or discrepancy is found in the documents, the Engineer shall issue any necessary clarification or instruction.

1.6 Contract Agreement.

The Text is deleted and replaced with following:

The Contract Agreement, Performance Security/Guarantee, Insurance Policies / Bonds and other Bond/Guarantees/Sureties shall be prepared and completed at the cost of the Contractor. The Contractor shall prepare six (6) copies of the Contract Document (including all the volumes / documents listed in the Contract Agreement) along-with copies of all the bonds/Guarantees/Sureties, at his cost and shall submit four (04) of the same to the Employer and two (02) to the Engineer.

3.1 Engineer's Duties and Authority.

The following paragraph is added after Sub-Clause 3.1 (d) the Engineer shall obtain the specific approval of the Employer before carrying out his duties in accordance with the following Clauses:

- i. Consenting to the sub-letting of any part of the Works under Sub-Clause 4.4 "Subcontracting".
- ii. Certifying additional cost determined under Sub-Clause 4.12 "Not Foreseeable Physical Obstructions or Conditions".
- iii. Any action under Clause 4.2 "Performance Security" and Sub-Clauses 18.1, 18.2, 18.3, 18.4 "Insurance" of sorts.
- iv. Any action under Sub-Clause 8.8 "Suspension".
- v. Any action under Sub-Clause 8.4 "Extension of Time for Completion."
- vi. Any action under Sub-Clause 8.7 "Delay Damages.
- vii. Issuance of "Taking Over Certificate" under Clause 10.
- viii. Issuing a Variation Order and Fixing rates or prices under Clause 13,except:
 - a) in an emergency* situation, as stated here below, or
 - b) if such variation would increase the Contract Price by less than the amount stated in the Appendix-A to bid.
- ix. Extra payment as a result of Contractor's claims under Sub-Clause 20.1.
- x. Release of Retention Money to the Contractor under Sub-Clause 14.9 "Payment of Retention Money".
- xi. Issuance of "Final Payment Certificate" under Sub-Clause 14.13.
- xii. Issuance of "Performance Certificate" under Sub-Clause 11.9.
- xiii. Approval of all materials to be used at the Project or approval of sample submittals and source

4.2 Performance Security

The following Sub-Clause is added:

The Contractor shall provide Performance Security to the Employer in the prescribed form. The said Security shall be furnished or caused to be furnished by the Contractor within fourteen (14) days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 10% of the Contract Price stated in the Letter of Acceptance. Such Security shall be in the form of bank guarantee from Scheduled Bank in Pakistan acceptable to the employer.

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

4.21 Progress Report

The following Sub-Clause is added:

- a) For purposes of Sub-Clause 14.1, the Contractor shall submit to the Engineer detailed programme for the following:
 - (1) Execution of Works (Detailed Methodology);
 - (2) Labour Employment and Induction;
 - (3) Material Procurement;
 - (4) Plant, Machinery and Equipment (including formwork) Procurement and Induction;
 - (5) Schedules for submittals of shop drawings/bar-bending drawings, samples of material/literature for approval, any additional or supplementary details/drawings to be provided by the Engineer;
 - (6) Site Safety Plan and Measures; and
 - (7) Other details as required by the Engineer;
- (b) During the period of the Contract, the Contractor shall submit to the Engineer not later than the 8th day of the following month, five (05) copies each of Monthly Progress Reports covering:
 - (1) A Construction Schedule indicating the monthly progress in percentage (Planned verses Actual);
 - (2) Description of all work carried out since the last report;
 - (3) Description of the work planned for the next sixty three (63) days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;
 - (4) Monthly summary of daily job record;

- (5) Photographs to illustrate progress;
 - (6) Information about problems and difficulties encountered, if any, and proposals to overcome the same;
 - (7) Variance in planned progress versus actual achieved progress to be explained with reasons;
 - (8) Measures and additional resources to be taken/deployed to make-up the delay if any; and
 - (9) Site safety Report.
- (c) During the period of the Contract, the Contractor shall keep a daily record of the work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment and items of work undertaken.

4.3 Contractor's Representative

The following text is to be added after last line:

The contractor's authorized representative and his other professional engineers working at site shall register themselves with the Pakistan Engineering Council.

The Contractor's authorized representative shall be fluent in the English language. Alternately an interpreter with ability of English language shall be provided by the Contractor on full time basis.

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

6.10 Records of Contractor's Personnel and Equipment

The following paragraph is added:

The Contractor shall, upon request by the Engineer at any time in relation to any item of hired Contractor's Equipment, forthwith notify the Engineer in writing the name and address of the Owner of the equipment and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements set forth above.

The following sub-clause 7.9 is added in (GCC):

7.9 Use of Pakistani Materials and Services

The contractor shall, so far as may be consistent with the contract, make the maximum use of materials, supplies, plant and equipment indigenous to or produced or fabricated in Pakistan

and services, available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

8.1 Commencement of Works

The last para is deleted and substituted with the following:

The contractor shall commence the works on site within the period named in Appendix-A to Bid from the date of receipt by him from the Engineer of a written Notice to Commence. Thereafter, the contractor shall proceed with the works with due expedition and without delay.

8.11 Prolonged Suspension

Replace 84 days by 120 days.

8.3 Programme

The following text is to be added after [Commencement of Works]

The Contractor shall prepare and submit the programme of the work as per cash flow provided by the Employer and which shall be acceptable to the Engineers within fourteen (14) days of the receipt of Letter of Acceptance for agreement of the Engineer and approval of the Employer. This programme shall identify and highlight those activities which are on the critical path.

The time schedule may be adjusted from time to time but the contractual completion date shall remain un-changed in accordance with the bid documents unless extensions of time are approved in accordance with the contract.

The programme should be computerized and drawn-up on the critical path method. Progress reporting by the Contractor should be supported, on a monthly basis with an update analysis of the progress including a statement on items, which are or are to become critical to the progress of the Work, along with the proposal on how the Contractor intends to alleviate the situation. Programme should include complete sequence of activities along with the detailed Cash Flow..

OR

The programme shall be submitted in the either form of:

- a) Bar Chart identifying the critical activities.
- b) Critical Path Method (CPM) identifying the critical path/activities.
- c) Program Evaluation and Review Techniques (PERT).

(Procuring Agency to select appropriate one)

12.3 Evaluation

The para 12.3 (a)(i) is deleted and substituted with the following:

The measured quantity of the item is changed by more than 35% from the quantity of this item in the Bill of Quantities.

The following Sub-Clause 12.3(c) & (d) is added

- (c) *If at the end of the project, it is found that the variations amount to more than 25% of the contract price (as adjusted), an addition or omission to the contract sum may be agreed or determined by the Engineer in respect of the Contractor's overheads.*
- (d) *The approval/finalization of rates of all variations shall not relieve the Contractor of his obligations under the Contract. The Contractor shall neither stop the work nor slow down the progress of the Works in awaiting the approval of rates of all variations.*

13.1 Right to vary

In the last line of Para, after the word "Variation", the word "in writing" is added.

13.3 Variation procedure

In the tenth line, after the words "as soon as practicable" following is added: "and within a period not exceeding one-eighth of the completion time"

13.7 Adjustment for changes in Legislation

Deleted

13.8 Adjustment for changes in cost

This clause will be applicable for Foreign funded Project/ Schemes or ICB Contracts (locally & foreign funded) only.

The following provision is added for Local funded Project/ Schemes/National Competitive Bidding Contracts:

The amounts payable to the Contractor, pursuant to Sub-Clause 14.6, shall be adjusted in respect of the rise or fall in the cost of materials only, and will be paid to the contractor on those items mentioned in the Appendix –C (B).

Similarly reduction in the cost of these materials will also be recovered from the contractor accordingly .

14.1 The Contract Price

Sub-para (d) is deleted.

14.2 Advance Payment

The Text is deleted and replaced with following:

Advance Payment/Mobilization Advance shall be made available to the Contractor by the procuring agency on following conditions: Mobilization Advance/Advance Payment (i) Mobilization advance up to 10 % of the Contract Price may be paid by the procuring agency to the Contractor on the works costing Rs2.5 million or above on following conditions:

a. on submission by the Contractor of a mobilization advance guarantee for the full amount of the advance in the specified form, from a Scheduled Bank in Pakistan, acceptable to the procuring agency;

b. contractor shall pay interest on the mobilization advance at the rate of 10% per annum on the advance; and

(ii) This Advance including the interest shall be recovered in 5 equal installments from the 5 R.A bills and in case the number of bills is less than 5 then 1/5 of the advance inclusive of the interest thereon shall be recovered from each bill and the balance together with interest be recovered from the final bill. It may be insured that there is sufficient amount in the final bill to enable recovery of the Mobilization Advance.

14.5 Plants and Materials intended for Works

Add the following paragraph as sub-clause 14.5 (d) for Secured Advance on non – perishable materials and sub-clauses (a), (b) and (c) will be applicable for plants only :-

(I) The Contractor shall be entitled to receive from the procuring agency Secured Advance against an INDENTURE BOND in Public Works Account Form No.31 (Fin. R. Form No. 2) acceptable to the procuring agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the site but not yet incorporated in the Permanent Works provided that:

(i) The materials are in accordance with the specifications for the permanent works; (ii) Such materials have been delivered to the site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer/Assistant Engineer but at the risk and cost of the Contractor;

(iii) The Contractor's records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;

(iv) The Contractor shall submit with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore;

(v) Ownership of such materials shall be deemed to vest in the procuring agency and these materials shall not be removed from the site or otherwise disposed of without written permission of the procuring agency;

(vi) The sum payable for such materials on site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of stands other materials;

(vii) Secured Advance shall not be allowed unless and until the previous advance, if any, is fully recovered;

(viii) Detailed account of advances must be kept in part II of running account bill or a separate statement; and

(ix) Secured Advance may be permitted only against materials/quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and in no case for full quantities of materials for the entire work/contract.

(II) Recovery of Secured Advance:

Secured Advance paid on non-perishable materials to the Contractor under the above provisions shall be effected from the monthly payments on actual consumption basis, but not later than period specified in the rules not more than three months (even if unutilized

14.8 Delayed Payment

Second Para is replaced with following text:

In the event of the failure of the Procuring Agency to make the payment within the time stated, the procuring agency shall pay to the contractor in case of ICB contracts only, the compensation at rate of KIBOR+2% per annum in local currency and Libor+1% for foreign currency, upon all sums to be paid from the date of which the same would have been paid.

14.16 Withholding of Payment

The following Sub-Clause 14.16 is added

- a) The Employer on the recommendations of the Engineer may withhold the whole or a part of any payment due to the Contractor if it is necessary in Employer's opinion to protect himself against losses on account of the following reasons.
 - i) Defective work not rectified.
 - ii) Non-fulfillment of any due demand and guarantee or renewal of any guarantee or surety.
 - iii) Claims of third parties raised against the Employer caused through the fault of the Contractor in connection with the Works.
 - iv) Damage caused by the Contractor or his personnel or any sub-contractor, to the Employer, or to a third party on the site.
 - v) Non-fulfillment of the Contract by the Contractor.
 - vi) Non-fulfillment of Contractual Obligation towards providing facilities for the Employer or the Engineer, submittal of Shop Drawings, Bar-bending drawings/schedules, Samples, erection of Mock-up samples, As-built drawings, etc.
- b) After the reasons for withholding of payments have been eliminated, to the satisfaction of the Employer and the Engineer, payments to the Contractor will be made by the Employer on the recommendations of the Engineer.
- c) In case of non-performance of Contractor, the employer may execute the work at the Contractor's risk and cost.

15.2 Termination by Employer

The following Para is added at the end of the sub-clause:

Provided further, that in addition to the action taken by the procuring agency against the Contractor under this Clause, the procuring agency may also refer the case of default of the Contractor to Pakistan Engineering Council for punitive action under the Construction and Operation of Engineering Works Bye-Laws 1987, as amended from time to time.

15.6 Corrupt and fraudulent Practices.

The following text is to be added as 3rd paragraph:

Successful Contractor has to provide Integrity Pact (for contracts worth Rs.10.0 million and above). If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the procuring agency shall be entitled to:

(a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Subcontractors, agents or servants;

(b) terminate the Contract; and

(c) recover from the Contractor any loss or damage to the procuring agency as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents or servants.

The termination under sub-para (b) of this Sub-Clause shall proceed in the manner prescribed under sub-clauses 15.2 & 15.5 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the procuring agency under Sub-Para (a) and (c) of this Sub-Clause.

16.4 Payment on Termination

Sub-paragraph (c) is deleted.

17.3 Employer's/ Procuring Agency's Risks

Sub-Clause 17.3 (h) is deleted.

The following text is added in Clause 18.1 (GCC):

18.1 General Requirements for Insurance

The contractor shall be obliged to place all insurances relating to the contract (including works, equipment, persons and property, third party insurance, accident or injury to workmen, C.A.R, but not limited to, the insurances referred to in Clauses 18.1,18.2,18.3,18.4) with Insurance Company having at least AA rating from PACRA/JCR in favour of the Employer//Procuring

Agency valid for a period 28 days after beyond the Bid Validity date/Defect's liability Certificate. Costs of such insurances shall be borne by the contractor.

19.6 Optional Termination, Payment and release by the Employer

Sub-clauses (c), (d) and (e) are deleted.

20.6 Arbitration

Text will be replaced as under;

Any dispute in respect of which:

(a) the decision, of the Dispute Board has not become final and binding pursuant to sub clause 20.2, and (b) amicable settlement has not been reached within the period stated in sub-clause 20.5, shall be finally settled, under the provisions of the Arbitration Act, 1940 as amended or any statutory modification/Rules of Conciliation And Arbitration PEC Islamabad or re-enactment thereof for the time being in force.

7. SPECIAL PROVISIONS

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SPECIAL PROVISIONS

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SPECIFICATIONS – SPECIAL PROVISIONS

1. GENERAL

- 1.1 Specifications – Special Provisions shall form an integral part of Bidding & Contract documents.
- 1.2 The Contractor shall notify all sub-contractors of the provisions of these Special Provisions

2. SITE

The Employer will give to the Contractor possession of the area designated and defined as the Site and shown on the drawing as may be required to implement as much of the Works, when the Engineer's Notice to Commence the Works is given.

3. CODES, STANDARDS AND CERTIFICATES

A. Applicable Standards

Except as otherwise provided by these Specifications or the Drawings, all materials, equipment and fabrication and testing thereof shall conform to the latest applicable standards and codes referred in the Specifications by use of the abbreviations explained below:

ACI	-	American Concrete Institute (USA)
AISI	-	American Iron and Steel Institute (USA)
AISC	-	American Institute of Steel Construction (USA)
ASTM	-	American Society for Testing and Materials (USA)
AASHTO	-	American Association of State Highway & Transportation Officials.
BS	-	British Standards (UK)
PS	-	Pakistan Standards (Pak)

If the Contractor, at any time and for any reason, wishes to deviate from the above standards or desires to use material or equipment not covered by the above standards, he shall state the exact nature of the changes, the reason for making the change and shall submit complete specifications of the materials and equipment to the Engineer for approval.

B. Standards other than those Specified

Where requirements for materials or equipment are specified by reference to a standard which has its origin in one country, it is not the intention to restrict the requirements solely to that standard and that country. Other standards, including standards of other countries, will be accepted provided the requirements thereof, in the sole opinion of the Engineer, are at least equal to the requirements of the standard specified. The Contractor may propose to the Engineer an equivalent standard other than that specified, in which case he shall submit the proposed standard and all other information required and shall submit written proof that his proposed standard is equivalent in all significant respects to the standard specified. All submissions must be made in the English language.

C. Codes and Standards at Site

The Contractor shall supply and have at his site office:-

- a) Copies of all latest editions of codes and standards referred to in these Specifications or equivalent codes and standards as approved by the Engineer.

- b) Catalogues and published recommendations from manufacturers supplying products and materials for the project.
- c) The Contractor shall provide manufacturer's or supplier's materials which must meet the requirements of a specific code or standard as stated in these Specifications.

4. UNITS OF MEASUREMENTS

The FPS System of Units shall be used throughout the Project.

5. EQUIPMENT AND TOOLS

The Contractor shall provide at his cost equipment and tools, adequate and befitting to the nature, magnitude and size of this Contract, in strict compliance with the requirements of the General Conditions of Contract, Conditions of Particular Applications and Technical Specifications.

6. STORAGE & HANDLING FACILITIES

The Contractor shall make his own arrangements for providing the necessary space for the storage of plant, equipment and materials and for Contractor's temporary office, in and around the site of works, during the currency of the Contract.

7. FIELD LABORATORY AND TESTING

7.1 General

The Contractor shall provide and maintain a field laboratory equipped with approved equipment to perform all the tests required by the Engineer. The quality control testing shall be performed by the Contractor's competent personnel in accordance with a site testing and quality control programme to be established by the Contractor and approved by the Engineer. The Engineer may however, require certain tests to be performed in any other laboratory designated by him.

The Contractor shall provide laboratory helpers to the Engineer for testing. The laboratory shall be run by a qualified material Engineer and Laboratory Technician to be employed by the Contractor.

The Field Laboratory, including all equipment and staff shall be placed at the disposal and direction of the Engineer during the Contract.

The Contractor shall keep a complete record of all quality tests performed on site.

All quality control and tests shall be carried out in accordance with applicable standards and codes.

7.2. Field Laboratory Equipment Requirements

The Laboratory shall be equipped with new unused and latest Equipment to perform tests as per Technical Specifications and General Conditions of Contract. Additional equipment/materials shall be supplied by the Contractor as and when required by the Engineer to perform any specified test, at no additional cost to the Employer.

The laboratory shall also be equipped with new unused furniture, fittings and fixtures. If any equipment, furniture, fitting or fixture becomes unserviceable for any reason what so ever, the Contractor shall promptly replace the same as and when directed by the Engineer.

7.3. Testing Laboratory Certificates

The Engineer may accept a certificate from a commercial testing laboratory, satisfactory to him, certifying that the product has been tested within a period acceptable to the Engineer and that it conforms to the requirements of these Specifications.

7.4. Method of Payment

The cost of providing running and maintenance of the laboratory, equipment, materials and staff and all other tests to be performed in any other laboratory designated by the Engineer shall be deemed to be included in the price quoted by the Contractor including transport for engineer and no separate claim for payment on this account shall be entertained by the Engineer. Further more the cost of any additional laboratory, field and shop tests required through the resubmission of samples because of failure of compliance with Specifications shall be borne by the Contractor.

In case the Contractor does not provide the specified equipment and testing facility, cost of testing plus 100 percent overheads shall be recovered from his bills.

8. SURVEYING INSTRUMENTS

8.1 General

The minimum quantity of survey equipment is stated below which shall be available with the Contractor at site of Works along with qualified Surveyors and Survey Helpers. The equipment shall be maintained throughout the Contract Period and replaced by the Contractor in case of damage or loss. The survey equipment shall be made available to the Engineer when requested. All surveying equipment shall be in good working condition.

8.2 Surveying Equipment Required

The Contractor shall provide and maintain the following surveying equipment at site.

- | | | |
|----|---|--------|
| a) | Electronic distance measuring device complete with (400 grades) Universal Theodolite with data logger, aiming head and standard equipment supplied by the manufacturer, including tripod, control unit stand, batteries, charging unit, pole reflector, single prism reflector, three, six and nine prism reflectors complete with tripods and Traverse Equipment for Theodolite. | 1 No. |
| b) | Automatic Levels with tripods | 2 Nos. |
| c) | Steel measuring tapes 50 m long | 2 Nos. |
| d) | Steel measuring tapes 20 m long | 2 Nos. |
| e) | Staff | 2 Nos. |
| f) | All other miscellaneous tools, equipment and materials required in surveying. | |

9. APPROVAL OF MATERIALS

9.1 Submission of Samples and Data

- 9.1.1 The Contractor shall furnish for approval of the Engineer with reasonable promptness all samples as directed by the Engineer or specifically called for in the Specifications and in accordance with the time schedule provided in the schedule of submittals. The Engineer shall check and approve such samples with reasonable promptness only for conformance with the design concept of the Works and for compliance with the information given in the Contract Documents. All work shall be in accordance with approved samples.

- 9.1.2 Samples shall be furnished so as not to delay fabrication, allowing the Engineer reasonable time for consideration of the sample submitted.
- 9.1.3 The Contractor shall erect Mock-up samples of finished items where specifically called for in the documents or as directed by the Engineer.
- The Mock-up samples shall be preserved/protected by the Contractor till the end of the project or as directed by the Engineer.
- 9.1.4 No acceptance or approval of any Shop Drawings or sample, or any indication or request by the Engineer on any Shop Drawings shall constitute an authorization for any increase in the Contract Sum.

10.1 Inspection

All material and all work performed under this Contract will be subject to inspection by the Engineer at all times and in all states of completion both off-Site and on-Site. The Contractor shall furnish promptly without additional charge, all facilities, labour and materials reasonably needed for performing such inspection and testing as may be required by the Engineer.

The Owner reserve the right to enter upon the site at all times and the contractor or his representatives shall extend them all the cooperation for inspection of the quality and the progress of the Construction works

10.2 Approved Sample at Site

The Contractor shall, at all times, keep on the Site approved samples. All such samples shall be made available to the Engineer/Employer as and when required.

11. BAR BENDING DRAWINGS/SCHEDULE

Bar bending (reinforcement bars) drawings with schedule of all structural drawings shall be prepared by the Contractor and submitted in triplicate to the Engineer for approval.

12.1 Drawings to Be Furnished By the Contractor

The Contractor shall submit to the Engineer for review, such drawings as are required under the Contract, sufficiently in advance of the work intended to be executed.

12.2.1 Reinforcement Drawings

Reinforcement placement drawings and bar bending schedules (to be provided by the Contractor as per clause 11 above) of all RCC work shall be prepared by the Contractor and submitted in triplicate to the Engineer for approval, sufficiently in advance of the works in which they are intended to be used.

12.3.2 Shop Drawings

- (a) The Contractor shall submit to the Engineer for review three (3) copies of all drawings to be issued for construction; based on data, requirements, dimensions, details, and design provided in the drawings issued by the Engineer. Such drawings shall be submitted at least twenty-eight (28) days before they are required for use.

12.3.3 As-Built Drawings

The Contractor shall, at all times, keep on Site a separate set of prints of all drawings on which all significant changes between the work shown on the

Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses.

The Contractor shall furnish to the Engineer 6 copies, one reproducible and a soft copy on CD of all drawings amended to comply with the Works as built. The price of such Drawings and copies (including CD) shall be deemed to be included in the Contract Price.

13. PROTECTION OF THE WORKS

The Contractor shall whenever necessary cover up and protect the works from damage by his own or other workmen performing subsequent operation.

14. RESTORATION AND CLEANING

Upon completion of the works the Contractor shall restore all items covered by the Contract to the satisfaction of the Engineer. Special care shall be taken by the Contractor that the roads and right of ways around the Site are not damaged or blocked to traffic during the period of Construction activities at Site. Should any of the roads are damaged due to any operation of the Contractor or his Sub-contractors, the same shall be immediately repaired by the Contractor. If the traffic on the roads is blocked due to any movement of Contractors machinery or equipment, the Contractor shall make alternate arrangement/diversions for the flow of traffic and maintain necessary personnel to control/monitor the same.

The Contractor shall do regular cleaning and clear away all rubbish and excess materials that may accumulate from time to time on completion and before handing over.

15. SITE OFFICE AND TEMPORARY FACILITIES TO BE PROVIDED BY THE CONTRACTOR

15.1 Contractor's Office, Facilities Etc.

The Contractor shall establish and maintain a Site office. The Contractor shall provide all facilities in connection with the execution, completion, of the Works, remedying defects therein and maintenance of the utilities services. The facilities shall not be limited to the Contractor's Site Office, labour camps, work yard and storage areas, temporary water supply, waste water disposal, temporary electricity, medical unit, temporary roads, fire protection and fire fighting equipment etc. The Contractor shall be solely responsible for arranging all utilities and the Contractor shall setup, maintain and operate an architectural and engineering facility at site with adequate number of technical and support staff as well as equipment required for particular nature of job covered under the Contract to prepare drawings/shop drawings for approval of the Engineer.

The Contractor shall make arrangements for his own camp, workshops, yards, storage areas, and areas for erection of equipment, offices within the site area available at site.

15.2 Temporary Roads

The Contractor shall prepare and maintain such temporary roads as may be necessary, from the site to the nearest road and also within the plot. Such roads shall be positioned strictly in accordance with the Engineer's instructions and the Contractor shall reduce or control any dust nuisance by regularly spraying water and compaction as directed.

15.3 Temporary Services

The Contractor shall make all the necessary arrangements for a temporary electricity service, pay all expense in connection with the installation, operation and removal thereof and pay the costs of electricity consumed by all trades, such as Electricity, water, gas, etc. The Contractor shall take all responsibility for their maintenance, upkeep, further connections for his use, etc. and shall bear all costs in this regard. Furthermore the Contractor shall also be responsible for the payment of consumption charges directly to the concerned authority/agency/department. If the Contractor

requires the connection(s) to be up-graded or enhanced he shall do so on his own and all charges in this regard shall be borne by the Contractor.

15.3.1 Temporary Water Supply

The Contractor shall supply in sufficient quantity all necessary potable and other water for construction purposes for all trades at points within a reasonable distance of any building being constructed. The Contractor shall make arrangements and pay charges for water service installation, maintenance and removal thereof, and pay the costs of water for all trades.

At completion of the work, the temporary water services equipment and piping shall be removed by the Contractor at his own expense.

15.3.2 Temporary Electricity

The Contractor shall make all the necessary arrangements for a temporary electricity service, pay all expense in connection with the installation, operation and removal thereof and pay the costs of electricity consumed by all trades. If the Contractor is un-able to arrange a temporary electrical connection then he shall arrange and furnish an Electric Power Generating set at site and maintain the generating set in perfect working condition through-out the duration of Contract. The generating power of the set shall be sufficient to operate all plant and equipment as well as the camps and offices of the Contractor and the offices of the Engineer/Employer, during construction at site. Should the set fail to meet the required demand at site or fail to function or operate, the Contractor shall immediately replace the same with other generating set/s to the satisfaction of the Employer as well as the Engineer.

A temporary lighting system shall be furnished, installed and maintained by the Contractor as required to satisfy the minimum requirements for safety and security and to the satisfaction of the Engineer.

At completion of construction work, temporary electricity services shall be removed by the Contractor at his own expense.

15.3.3 Waste Disposal

The Contractor shall make such temporary provisions as may be required in order to dispose of any chemicals, fuels, oils, grease, bituminous materials, waste and soil waste and the like without causing pollution to either the site or the environment. Disposal of any materials, wastes, effluent, garbage, oil, grease, chemicals and the like shall be in areas specified by the concerned local authority proposed by the Contractor and subject to the approval of the Engineer. If any waste material is dumped in unauthorized areas the Contractor shall remove the material and restore the area to the condition of the adjacent undisturbed area. If necessary, contaminated ground shall be excavated, disposed off as directed by the Engineer and replaced with suitable fill material compacted and finished with topsoil all at the expense of the Contractor.

15.4 Sign Board

The Contractor shall erect and maintain at the Site in a location to be approved by the Engineer three (3) Sign Boards of dimensions approved by the Engineer. The Sign Boards shall be made of metal. It shall be mounted on steel posts securely anchored and braced. The Contractor shall paint on the Sign Boards, the name of the Works, and the names of the Employer, Engineer and the Contractor both in English and Urdu Languages.

No payment shall be made to the Contractor for the works involved under this Sub-Clause.

15.5 Site Office for Employer, Engineer and Engineer's Staff

The Contractor shall provide a telephone and internet connection each for the Employer and the Engineer at site up-to an average billing of Rs. 5,000/- per month for each, one (01) latest model computer for Engineer and one latest model touch screen Lap Employer with two flash drives of at-least 32 GB capacity each, an A3 size colour printer, plain paper photocopier A3 size, a digital camera (32 pixel minimum with 32 Gb SD/MMC storage card) etc.

The Contractor shall provide replacement of the equipment(s), if any of the above mentioned equipment(s) is temporarily or permanently rendered unserviceable for any reason(s) or declared to be beyond repair by the Engineer/Engineer's staff at no additional cost to the Employer.

The said offices shall be provided by the Contractor within twenty eight (28) days of the receipt by the Contractor of Engineer's Notice to Commence or twenty one (21) days of the payment of the first half of the Mobilization Advance, whichever earlier.

No payment shall be made to the Contractor for the works involved under this Sub-Clause.

15. 52 OTHER FACILITIES FOR ENGINEER'S PERSONNEL TO BE PROVIDED BY THE CONTRACTOR

Transport for Engineer/Employer

- a. The Contractor shall provide, operate and maintain two motor cycles, Honda 125 CC or equivalent, each for the exclusive use of the Employer and The Engineer/Engineer's staff to meet the transportation needs in connection with the project. The vehicles shall be new and of latest as on the commencement date and registered in Nawabshah.
- b. The Contractor shall furnish supply and provide, as may be necessary without specific direction of the Employer and the Engineer/Engineer's staff, all fuels (80 liter/month for each), lubricants, tyres and other supplies, all maintenance, repairs, comprehensive insurance cover and running costs.
- c. The Contractor shall maintain the vehicles till the issuance of Defects Liability Certificate. The vehicles shall become the property of the Employer after the issuance of Defects Liability Certificate and the Contractor shall transfer the same in the name of the Employer.
- d. No separate payment shall be made to the Contractor for the facilities involved under this clause. The cost thereof shall be deemed to have been included in the price quoted by the Contractor for the works.

15.5 Site Facilities to Be Provided By the Contractor

15.6.1 General

Without prejudice to the generality of the various clauses of the Contract, particular attention is drawn to the obligation of the Contractor to make his own arrangement at his own expense for the following.

15.6.2 Labour Camps and Staff Residences

The Contractor shall provide, operate and maintain labour camps and staff residences and are required for the proper and efficient progress of the work to house his own employees. For the purposes of operation and maintenance of the Camps and Residences, the Contractor shall comply with the rules of Pakistan Labour Camp Rules 1960 and all other applicable provisions of the Pakistan Labour Laws.

15.6.3 Administrative and Field Office

The Contractor shall provide, operate and maintain administrative and field offices required for his staff and would be responsible for Operation and Maintenance, furniture, equipment, appliances, janitor services and security of the same.

15.6.4 Work yards and Storage Areas

The Contractor shall provide, operate and maintain all sheds, fencing, foundations and all above ground structures required to store material or equipment brought on to the site by him. The Contractor shall be responsible for the security of his entire camps, residence, site and field offices work yard and storage area.

15.6.5 Water Supply, Sewerage System and Electricity

The Contractor shall make his own arrangement, at his own expense for provision, operation and maintenance of electric supply, reasonable supplies of raw and potable water and sewerage system at the site of works and his labour camps, staff residences and offices. The Contractor shall pay all fees, and charges (including bills) of whatsoever nature to the concerned departments (if any) in order to procure connections of the above facilities and thereafter using these facilities. If the Contractor is un-able to arrange a temporary electrical connection then he shall arrange and furnish an Electric Power Generating set (with sufficient generating capacity to meet the required demand of electricity) at site and maintain the generating set in perfect working condition through-out the duration of Contract.

15.6.6 Medical Care

The Contractor shall arrange provision of adequate medical facilities for his employees.

Adequately equipped and properly staffed first aid stations or dispensaries shall be provided by the Contractor at camps and other strategic locations, to administer first aid treatment at all times free of charge to all persons on the Site, including personnel of the Engineer and the Employer. The nature, number and location of facilities furnished and the Contractor's staff for administering first-aid treatment shall meet the requirements of the Health Services of the Government of Pakistan and of Section III of the Manual "Safety Requirements for Construction by Contract", published by the Employer, and shall be subject to approval by the Engineer.

15.6.7 Other Facilities

The Contractor shall also be responsible for providing at his own cost other facilities for his own staff and labour such as educational, recreational, transport, telephone and catering if required.

16. CONSTRUCTION PROCEDURES

The Contractor shall advise the Engineer of proposed construction procedures in accordance with the General Conditions of Contract.

If the Engineer shall see that the work progress is slow in such a way that the work will not be completed in the time specified, then he shall order the Contractor to work overtime or in more shifts or to deploy /employ additional resources and the Contractor shall obey these orders without any additional payments and without any objections or request for compensation.

17. NOTIFICATION TO ENGINEER

The Engineer shall be notified daily in writing of the nature and location of the Works the Contractor intends to perform the next day so as to enable necessary inspection and measurement to be carried out. The Engineer may, if necessary, direct that longer notice be given of certain operations.

18. NIGHT WORK

When work is done at night the Contractor shall maintain from sunset to sunrise such lights on or about his work and plant as the Engineer may deem necessary for the proper observations of the work and the efficient execution thereof.

19. WEATHER

No work is to be undertaken when, in the opinion of the Engineer, the weather is so unsuitable that proper protection of the work cannot be ensured.

20. SETTING OUT OF WORK AND SURVEY

20.1 Reference Points, Lines

The Contractor shall establish benchmarks and / or reference line at the Site in accordance with the instructions of the Engineer. The Contractor shall set out its work from these benchmarks and lines. The Contractor shall supply plant, equipment, materials and labour for checking if required of the survey control by the Engineer. Slope stakes will be set by the Contractor before commencement of excavation and will be re-established as required during progress of work using established benchmarks and reference points.

20.2 Verification

The Engineer may make checks as the work progress to verify lines and grades established by the Contractor and to determine the conformance of the work as it progresses with the requirements of the Drawings and Specifications. Such checking by the Engineer shall not relieve the Contractor of his responsibility to perform all work in accordance with the Drawings and Specifications and the lines and grades given therein.

Based upon the basic control, the Contractor shall provide his own primary control points, as needed for the Works, and shall preserve and maintain them until otherwise authorized.

The Contractor shall be responsible for maintaining all survey markers/monuments, and property corners. If any markers/monuments are destroyed by the Contractor, the Contractor shall arrange, at his own cost, to retrace and replace them to the entire satisfaction of the Engineer. If a monument cannot be replaced in its original position, the Contractor shall install a witness corner. The Contractor shall complete and file monument reference cards on all monuments as per instructions of the Engineer.

The Contractor shall provide experienced construction surveyors with adequate experience in the construction surveys similar in nature as required by this Contract.

Based upon established basic control monuments the Contractor shall establish all lines and grades necessary to control the Works, and shall be responsible for all measurements that may be required for execution of the Works to the tolerance prescribed below.

The Contractor shall perform such surveys and computations as are necessary to determine quantities of work performed or placed during each progress payment period, and shall also perform all surveys necessary for the Engineer to determine final quantities of work in place. The Engineer will determine final quantities based on original ground levels determined by the Contractor and agreed by the Engineer.

The Contractor shall notify the Engineer at least 24 hours before performing a quantity survey and, unless specifically waived, quantity surveys shall be performed in the presence of an authorized representative of the Engineer.

Degree of accuracy for the survey works shall satisfy the following specified tolerances:

- (a) Structure points shall be set within 0.01 foot accuracy from point to point, except where tighter tolerances are required.
- (b) Cross-section points shall be located within 0.10 foot, horizontally and 0.01 foot vertically.
- (c) Permissible closing error for a levelling line meant for establishing Temporary Bench Mark (TBMs) shall not exceed $0.045 \times \sqrt{M}$ foot, where M is in miles. The permissible closing error shall be duly adjusted.

The Contractor shall provide all materials, equipment and labour required for surveying work, including, but not limited to, instruments, stakes, spikes, steel pins, templates, platforms, and tools, and except as required to be incorporated in the work or left in place, all such materials and equipment, shall remain the property of the Contractor. Surveying instruments shall be in perfect working condition and shall be subject to rigid inspection for proper operation at least after every two weeks of use. Defective instruments shall be promptly replaced or repaired and adjusted to the satisfaction of the Engineer.

Survey data shall be recorded in accordance with recognized professional surveying standards. Original field notes, computations, and other surveying data shall be recorded in the Contractor furnished field books. Notes or data not in accordance with standard formats will be rejected. Illegible notes or data, or use of erasures on any page of a field book will be considered sufficient cause for rejection of part or the entire field book. Copied notes or data will not be permitted; therefore, rejection of part or all of a field book may necessitate re-surveying. Corrections by ruling or lining out errors will be satisfactory.

The cost of all materials, equipment, surveyors and labour required for surveys for the Works and quantity surveys required by this clause shall be deemed to be included in the rates and prices of the various items in the Estimates and no separate measurement and payment in their respect shall be made.

20.3 Survey Instruments

The Contractor shall maintain at the Site the requisite surveying instruments in perfect working conditions to enable the Engineer's Representative to check levels and lines of the work at all times.

21. PAYMENT OF WORK

No payment shall be made for the works involved within the scope of this section of specification unless otherwise specifically stated in the Estimates or herein.

The cost thereof shall be deemed to have been included in the total price quoted by the Contractor.

22. DRAWINGS

22.1 Bid Drawings

Bid Drawings issued with the Bidding Documents, called the Bid Drawings, show scope of the work to be performed by the Contractor. The Drawings are generally in sufficient detail so as to be used as a basis for construction, fabrication and for placing orders for materials subject to corrections based on the future issue of supplementary Drawings as provided under Sub-Clause 12.2 hereof.

22.2 Construction Drawings, Supplementary Drawings

After award of Contract, the Bid Drawings will automatically become Construction Drawings.

The Engineer shall have authority to issue to the Contractor, from time to time, such supplementary Drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and completion of the Works and the remedying of any defects therein. The Contractor shall follow these drawings.

The Contractor shall study the details and drawings provided in the Bid for their sufficiency to carry out the Construction works and shall provide along-with the Programme a schedule of requirement for any further detail/drawing/information which he may require during the Construction activities.

22.3 Definition of Term Drawings

The term Drawings as used in the Specifications means the Drawings referred in Clauses 12.1 and 12.2 above.

22.4 Checking of Drawings

The Contractor shall check all Drawings carefully as soon as practicable after receipt thereof, and shall promptly notify the Engineer of any errors discovered.

22.5 Copies of Drawings

Drawings will be issued to the Contractor as described below.

22.5.1 Bid Drawings (at Construction stage)

Three (3) sets of the Bid Drawings will be issued to the Contractor at the time of Construction free of charge. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

22.5.2 Supplementary Drawings

Three (3) prints of each supplementary Drawing will be issued to the Contractor free of charge. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

8. TECHNICAL SPECIFICATIONS

Please follow the Material Specification provided in the CSR 2012

9. LIST SPECIFIED MATERIAL

LIST OF SPECIFIED MATERIAL

(to be signed by the Bidder)

The Contractor should note that material from recommended manufacturers shall be used on this Project. The Contractor shall submit literature/catalogue/samples to the Engineer for review and approval.

Equipment and materials specified below are to establish a standard of quality indicate a preference for a particular source. Other material can also be approved, provided that the quality of such materials is at least equal to or better than the recommended manufacturer or make/brand can also be used if specified in BOQ. It shall be responsibility of the Contractor to submit comparative analysis & pertinent data in relation to such materials, for review and approval of the Engineer/Employer.

Onus lies with the Contractor for establishing the genuineness of any material sources or Make for its make and origin as specified below:

A. Civil

S.NO	Item/Equipment / Material	Make/Manufacturer
1.	Cement	Lucky/D.G Cement or equivalent
2.	Crushed Stone	Kot Banglow
3.	Sand	Bolhari
4.	Steel	Amreeli or equivalent
5.	Bricks	Local District SBA, Sangher, Hala & Hyderabad
6.	Fair Faced Bricks	Lahore or Selected as per base rate.
7.	Construction Chemicals	1. SIK 2. Ultra or equivalent
8.	Anti-Termite Treatment	1. Biflex 2. Termidor 3. Dursbin 4. Mirage 5. or equivalent

9.	Anchors for Concrete (Chemical and Mechanical)	1. HILTI 2. SPIT 3. SIKA 4. FISCHER 5. or equivalent
10.	Aluminum Sections	1. Pakistan Cables 2. Chawla Aluminium 3. Prime Aluminium or equivalent
11.	Paints & Varnishes	1. Berger 2. ICI or equivalent
12.	Ceramic Tiles	1. RAK 2. NIRO Granite 3. MML or equivalent
13.	Porcelain Tiles	1. RAK 2. NIRO Granite 3. MML or equivalent
14.	Concrete Floor Tile & Pavers	1. Envicrete 2. TUFF or equivalent
15.	False Ceiling (Metallic)	1. OWA (Germany) 2. DAMPA (Denmark) or equivalent
16.	False Ceiling (Gypsum)	1. Elephant 2. or approved Equivalent
17.	Glass	1. Pilkington 2. AGC 3. Guardian or equivalent

Authority Signature
and official seal

Name

Date

B. Electrical Works

Sr. #	Equipment / Material	Make/Manufacturer	Country of Origin
1	Diesel Generator Set	Caterpillar FG Wilson	USA/UK
2	Synchronizing, Load Sharing & AMF Panel	Siemens Schneider Electric (AREVA) R A Electronics	Pakistan Pakistan Pakistan
3	Indoor Power Transformers	Siemens P.E.L.	Pakistan Pakistan
4	H.T Switch Boards	Siemens Schneider Electric (AREVA) P.E.L.	Pakistan Pakistan Pakistan
5	L.T. Switch Boards / Main LT Outdoor Distributors / L.T. Distribution Boards/Motor Control Centre (MCC)	Siemens Schneider Electric (AREVA) P.E.L.	Pakistan Pakistan Pakistan
6	Air Circuit Breakers (ACBs) Moulded Case Circuit Breakers (MCCBs)/ Miniature Circuit Breakers (MCBs)	Siemens M.G ABB Terasaki	Germany France Italy Japan
7	Light Fixtures	Philips Faeber	Holland Italy
8	15 kV H.T Cables	Pakistan Cables Newage Cables	Pakistan Pakistan
9	Single & Multi Core LT Cables	Pakistan Cables Newage Cables AGE Cables FAST Cables	Pakistan Pakistan Pakistan Pakistan France Germany

Sr. #	Equipment / Material	Make/Manufacturer	Country of origin
11	Uninterruptible Power Supply	APC MG	USA France
13	Voltmeter / Ammeter	Revalco Pantace Saci	Italy Italy Spain
14	Auto-Off-Manual Selector Switch/ASS/VSS	Breter Kraus & Naimer	Italy New Zealand
15	CTs/PTs (HT)	Revalco FICO	Italy Pakistan
16	CTs (LT)	Revalco FICO	Italy Pakistan
17	Air Break Magnetic Contactors	Telemecanique Fuji Panasonic Siemens	France Japan Japan Germany
18	Power Factor Relay	Nokian Lovato	Finland Italy
19	PFI Capacitors	Nokian Shizuki	Finland Japan
20	H.T indoor Termination Kits	3M Raychem	USA Germany
21	Light Control Switch / Switch Socket Outlets	Clipsal M.K Legrand	Australia U.K France

Sr. #	Equipment / Material	Make/Manufacturer	Country of origin
22	Back Boxes	Hussain & Co. or Approved Equivalent	Pakistan
23	PVC Conduits & Accessories/uPVC Pipes & accessories	Dadex Beta Jeddah Polymer	Pakistan Pakistan Pakistan
24	Earthing System	Furse ERICO	U.K USA
25	G.I. Cable Tray, Trunking	Ashraf Industries Ezzi JEI	Pakistan Pakistan Pakistan
26	Ceiling / Wall Bracket / Exhaust Fans	Pak Fan Royal Fan Millat Fan	Pakistan Pakistan Pakistan
27	Structured Cabling Network	3M Panduit	USA USA
28	Fire Alarm System	Simplex Gent by Honeywell Esser by Honeywell Notifier by Honeywell	USA UK Germany USA
29	CCTV System	Pelco Sony Bosch	USA Japan EU
32	CATV System	Wisi or Approved Equivalent	Germany

Authority Signature
and official seal

Name

Date

C. Plumbing Works

S. #	Equipment / Material	Make/ Manufacturer	Origin
1.	G.I. PIPE	i. M/S INTERNATIONAL INDUSTRIES LTD. (IIL) ii. M/S JAMAL PIPE INDUSTRIES (PVT.) LTD. iii. M/S BASHIR PIPE INDUSTRIES (PVT.) LTD.	PAKISTAN PAKISTAN PAKISTAN
2.	G.I.PIPE FITTING	i. M/S HE ii. M/S TG	CHINA CHINA
3.	C.I. PIPE AND FITTINGS	i. M/S SUPER ALPINE ii. M/S SANDAL ENGINEERING (PVT.) LTD. (TEEPU SUPREME SPUN PIPES)	PAKISTAN PAKISTAN
4.	SANITARY FIXTURES	i. M/S PORTA ii. M/S ASIAN STANDARD iii. M/S ZUN LONG	CHINA CHINA CHINA
5.	KITCHEN SINKS	i. M/S RASHAD ii. M/S ATLAS iii. M/S SUPER ASIA	PAKISTAN PAKISTAN PAKISTAN
6.	SANITARY FITTINGS	i. M/S MASTER ii. M/S SONEX	PAKISTAN PAKISTAN
7.	BATHROOM ACCESSORIES	i. M/S MASTER ii. M/S SONEX iii. M/S KENT	PAKISTAN PAKISTAN PAKISTAN
8.	BRONZE/BRASS VALVES	i. M/S KITZ ii. M/S ECONOSTO	JAPAN ITALY
9.	C.I. VALVES	i. M/S SCON ii. M/S GMD iii. M/S MHS	PAKISTAN PAKISTAN PAKISTAN
10.	GAS WATER HEATERS	i. M/S NAS GAS ii. M/S SINGER	PAKISTAN PAKISTAN

		iii.	M/S CORONA	PAKISTAN
11.	ELECTRIC WATER HEATERS	i.	M/S NAS GAS	PAKISTAN
		ii.	M/S HEATEX	PAKISTAN
		iii.	M/S CANON	PAKISTAN
12.	WATER COOLER	i.	M/S MECCO	PAKISTAN
		ii.	M/S CARAVELL	PAKISTAN
		iii.	M/S CANON	PAKISTAN
13.	C.I. COVERS WITH FRAME FLOOR DRAINS & FLOOR CLEANOUTS	i.	M/S SUPER ALPINE	PAKISTAN
		ii.	M/S SANDAL ENGINEERING (PVT) LTD. (TEEPU)	PAKISTAN
14.	FIRE HOSE CABINET AND EXTINGUISHERS	i.	M/S HASEEN HABIB (PVT.) LTD.	PAK/FOREIGN
		ii.	M/S ADAMS FIRETECH	PAK/FOREIGN
		iii.	M/S TECHNO FIRE (ARMOUR U.K.)	PAK/FOREIGN
15.	uPVC PIPES AND FITTINGS	i.	M/S DADEX (NIKASI)	PAKISTAN
		ii.	M/S SHAFISONS ENGINEERING (PVT.) LTD. (BETA PIPES)	PAKISTAN
16.	PPR PIPES & FITTINGS	i.	M/S DADEX (POLYDEX)	PAKISTAN
		ii.	M/S SHAFISONS ENGINEERING (PVT.) LTD. (BETA PIPES)	PAKISTAN
17.	HDPE PIPES & FITTINGS	i.	M/S INTERNATIONAL INDUSTRIES LTD. (IIL)	PAKISTAN
		ii.	M/S DADEX (T-FLEX)	PAKISTAN
		iii.	M/S NEW TECH PIPES	PAKISTAN
18.	MS PIPES & FITTINGS	i.	M/S BASHIR PIPE INDUSTRIES (PVT.) LTD.	PAKISTAN
		ii.	M/S JAMAL PIPE INDUSTRIES (PVT.) LTD.	PAKISTAN
		iii.	M/S HAFFAZ PIPES	PAKISTAN
19.	PRESSURE REDUCING VALVES	i.	M/S HONEYWELL	USA
		ii.	M/S ITAP	ITALY
20.	FLEXIBLE JOINTS	i.	M/S ECONOSTO	ITALY
		ii.	M/S TOZEN	JAPAN
21.	WATER FILTERS	i.	M/S SO-SAFE	PAKISTAN
		ii.	M/S ENVIRO PAK	PAKISTAN
		iii.	M/S AQUA SAFE	PAKISTAN

22.	HANGERS & SUPPORTS	i.	M/S FISCHER	GERMANY
		ii.	M/S SIKLA	GERMANY
		iii.	M/S HILTI	FOREIGN
		iv.	M/S SPIT	FRANCE
23.	PUMPING MACHINERY	i.	M/S HMA GRUNDFOS	DENMARK
		ii.	M/S KSB	GERMANY

10. BILL OF QUANTITIES (SCHEDULE -B)

EXTERNAL DEVELOPMENT OF USMS BHITSHAH
BILL OF QUANTITIES (EXTERNAL PLUMBING, DRAINAGE AND WATER SUPPLY
WORKS) CSR 2024

SUMMARY OF COST (CSR 2024)

S.#	Description	Amount (Rs.)	
A	Plmbing Works (External Drainage)		
1	External Drainage works		
	Total - A	Rs.	
B	Non-Schedule Plumbing Works		
2	Non schedule	Rs.	
	Total - B	Rs.	
C	Plinth Protection		
3	Plinth Protection	Rs.	
	Total - C	Rs.	
	Total (A+B+C)	Rs.	
	Add 5% SRB	Rs.	
	Grand Total	Rs.	

Client

Contractor

Bill of Quantities					
Client:	ESTABLISHMENT OF SUFISM & MODERN SCIENCES UNIVERSITY BHITSHAH	Job No.		Revision Date:	
Project:	EXTERNAL PLUMBING, DRAINAGE AND WATER SUPPLY WORKS	Prepd. By			
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By		Date:	
PLUMBING WORKS (EXTERNAL DRAINAGE)					
Sr.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
1	Constructing manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067mm) depth with walls of B.B in cement sand mortar 1:3 cement plastered 1:3, 1/2" thick, inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 1-1/2' x1-1/2' (457x457 mm) of 1.75 cwt. (88.9 kg) embaded in plain C.C 1:2:4 and fixing 1" (25 mm) dia M.S steps 6" (150 mm) wide projecting 4" (102 mm) from the face of wall at 12" (305 mm) C/C duly painted etc. Complete as per standard specification and drawing.				
a)	4" to 12" dia 2'x2'x3'-6" PUBLIC HEALTH ENGINEERING WORKS FINISHED ITEMS Chapter-II, item-O - 1, Page-134	Each	62	55,584.18	3,446,219.16
2	Constructing manhole for the required dia of circular sewer and 7'-9" depth with walls of B.B in cement mortar 1:3 cement plastered 1:3, 1/2" thick, inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 2' x 2' (610x610 mm) of 4.5 cwt. embaded in plain C.C 1:2:4 and two way rainforced 6" thickness i/c fixing 1" (25 mm) dia M.S steps 6" (150 mm) wide projecting 4" (102 mm) from the face of wall at 12" (305 mm) C/C duly painted etc, complete as per standard specification and drawing.				
a.	4" to 9" dia 4'x3'x7'-9"	Each	16	146,248.37	2,339,973.92
b.	12" dia 4'-6" x 3'x7'-9" PUBLIC HEALTH ENGINEERING WORKS FINISHED Chapter-II, item- P- 2 (a) & (b), Page135	Each	5	152,361.15	761,805.75
3	Constructing manhole or inspection chamber for the required dia of circular sewer and 12' depth with walls of B.B in cement mortar 1:3 cement plastered 1:3, 1/2" thick, inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 2' x 2' (457x457 mm) of 4.5 cwt. embaded in 9" thick R.C.C 1:2:4 two way reinforced i/c fixing 1" (25 mm) dia M.S steps 6" (150 mm) wide projecting 4" (102 mm) from the face of wall at 12" (305 mm) C/C duly painted etc, complete as per standard specification and drawing				
i	4" to 12" dia 4'-6"x3'x12'	Each	6	183,472.50	1,100,835.00
ii	15" dia 4'-6" x 3'x6'x12' PUBLIC HEALTH ENGINEERING WORKS FINISHED Chapter-II, item-O-3, Page 136	Each	2	195,925.10	391,850.20
4	Manufacturing & Supplying of R.C.C manhole cover cast in 1:2:4 cement concrete ratio 3" inch deep at center reinforced with 1/2" dia M.S tor bars with 4" c/c welded to a 3/16' thick 2 inch wide M.S Plate and two hooks of 3/8" inch dia tor bars including compacting, curing and transportation within 10 miles.				
b	24" inch dia WATER SUPPLY & SANITARY ITEMS (INTERNAL & EXTERNAL FITTINGS) Chapter-17, item-1 b., Page-31	Each	91	1,051.25	95,663.75

Sr.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
5	Dry rammed brick or stone ballast 1 1/2" to 2" gauge. Chapter-4 (Concrete), item-2 Page- 24	P. Cft	6,360	104.97	667,609.20
6	Excavation for pipe line in trenches, and pits in soft soils i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m). PUBLIC HEALTH ENGINEERING WORKS FINISHED ITEMS Chapter-II, item-A-(3), Page-148	%0Cft	25,440	18,288.00	465,246.72
7	Providing, Laying RCC pipes of A.S.T.M C-76-62 T/C-76-70 of Class II wall B and fixing in trench i/c cutting, fitting and jointing with rubber ring i/c testing with water to specified pressure.				
i	225 mm (9" dia)	Rft	1,688	1,052.14	1,776,012.32
ii	300 mm (12" dia)	Rft	726	1,430.86	1,038,804.36
iii	375 mm (15" dia) Chapter-II, item-B-1 (a,b,c), Page-106	Rft	130	1,753.56	227,962.80
8	Providing, Laying uPVC pipes of Class 'D' fixing in trench i/c cutting, fitting and jointing with solvent cement i/c tsting with water to a head of 122 meter or 400 ft.				
h)	150 mm (6" dia) PUBLIC HEALTH ENGINEERING WORKS FINISHED ITEMS Chapter-II, item-E-6(h), Page-112	Rft	360	1,391.07	500,785.20
9	Providing,Laying & Fixing in trench i/c fitting, jointing & testing etc complete in all respect the high Density Polythylene PE pipes (HDPE-100) for W/S confirming ISO 4427/DIN8074/8075 B.S 3580 & PSI 3051 PN-08 (280 mm) PUBLIC HEALTH ENGINEERING WORKS FINISHED ITEMS Chapter-II, item-E-1(n), Page-113	Rft	2,200	3,080.36	6,776,792.00
	TOTAL				19,589,560.38
	PERMIUM _____% ABOVE OR BELOW				
	TOTAL				

Bill of Quantities					
Client:	ESTABLISHMENT OF SUFISM & MODERN SCIENCES UNVIERSITY BHITSHAH	Job No.		Revision Date:	
Project:	EXTERNAL PLUMBING, DRAINAGE AND WATER SUPPLY WORKS	Prepd. By			
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By		Date:	
NON-SCHEDULE ITEMS PLUMBING WORKS					
Sr.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
1	Providing, laying, fixing and testing uPVC rain water as per BSS 4514 & 5255 or latest BS specifications including uPVC fittings with solvent cement jointing or rubber ring joints Dadex, Beta or Tetraplast make as approved by the Engineer Incharge complete in all respects, including, clamps, bends, tees, Y-tees, cowls, reducers, clean out etc., embedded in floors and walls, clamped to walls, suspended from slab, painted MS horizontal and vertical pipe hangers of approved design making requisite no. of holes and making good the same complete in all respects. (all soil, waste and vent pipes shall run under the ceiling of lower floors, galvanized hangers and rawl bolts shall be Sikla or Hilti make shall be used.) i) 4" i/d	Rft	50		
2	Providing, laying, fixing and testing (P-trap) UPVC including best quality local make Dadex, Beta or Tetrapast make as approved Engineer Incharge complete in all respects to their entire satisfaction.	Each	8		
3	Providing, laying, fixing and testing C.I Grating with ability to withstand heavy vehicle load with base angle frame 1-1/2" x 1/4" of make JAWS or Super Alpine make as approved Engineer Incharge complete in all respects to their entire satisfaction.	Sft	1,020		
4	Supply and installation of submersible sludge pump having one cusec flow at 30 feet head including the cost of control panel, wires, valves, guiding rails and chain arrangement, piping and accessories etc. complete in all respects. SEWAGE TREATMENT SEPTIC TANK	Nos.	4		
5	Providing, constructing, testing and commissioning 5,000-gallon capacity Reinforced Cement Concrete (RCC) Septic Tank complete with excavation in all types of soil, dewatering where required, PCC blinding, RCC base slab, walls and cover slab with specified concrete grade and steel reinforcement, internal partition/baffle walls, inlet and outlet pipe connections, vent pipe with cowl, watertight construction, internal waterproof plaster/coating using Sika or approved equivalent, heavy-duty Cast Iron (CI) Manhole Covers and Frames, formwork, curing, testing, backfilling, disposal of surplus excavated material, and all associated works complete in accordance with the drawings, specifications and Engineer's instructions.	gallons	5,000		

Sr.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
6	PUMP ROOM Providing, constructing, testing and commissioning RCC Underground Sewage Pumping Station (Wet Well) of internal size 10'-0" × 10'-0" and required depth as shown on drawings, including excavation in all types of soil, dewatering where required, disposal of surplus excavated material, PCC blinding, reinforced cement concrete base slab, walls and cover slab with required steel reinforcement, formwork, waterproof concrete, internal and external waterproofing treatment using Sika or approved equivalent, access openings with heavy-duty 24-inch diameter Cast Iron (CI) Manhole Covers and Frames, pipe sleeves/openings for inlet, outlet and future pump connections, ventilation pipe provisions, embedded MS fixtures, benching/channeling where required, curing, testing for watertightness, backfilling and compaction, and all incidental works complete in accordance with drawings, specifications and Engineer's instructions, excluding pumps, piping, valves, controls and electrical/mechanical equipment.	Job	1		
7	ELECTRIC PUMP Supply, installation, testing and commissioning of submersible sludge/sewage pump having a capacity of 1.0 Cusec (approximately 450 GPM or 102 m ³ /hr) at 30 feet Total Dynamic Head (TDH), complete with electric motor, cast iron pump casing, non-clog impeller, guide rail system, galvanized/stainless steel lifting chain, auto-coupling arrangement, discharge piping, non-return valve, gate valve, level control system, power and control cables, motor control panel, starters, protection devices, all electrical connections, supports, fittings, accessories, testing and commissioning, and all associated works complete in accordance with drawings, specifications and Engineer's instructions.	Job	1		
8	DIESEL PUMP Supply, installation, testing and commissioning of diesel engine driven sludge/sewage pump having a minimum capacity of 1.0 Cusec (approximately 450 GPM) at 30 feet Total Dynamic Head (TDH), complete with diesel engine, flexible coupling, common base frame, fuel tank, battery and charger, silencer/exhaust system, control and protection panel, suction and discharge connections, non-return valve, gate/butterfly valve, piping, fittings, supports, anti-vibration pads, foundation bolts, testing, commissioning and all accessories required for satisfactory operation, complete in all respects as per drawings, specifications and Engineer's instructions.	Job	1		

Sr.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
9	UPVC PIPE Providing, supplying, laying, jointing, testing and commissioning 12-inch (300 mm) diameter uPVC pipe of specified pressure rating (PN class) for sewerage/drainage/water conveyance, including fittings, solvent cement/rubber ring joints, excavation, bedding, alignment, thrust blocks where required, testing, backfilling, compaction, cutting, jointing and all accessories complete in all respects as per drawings, specifications and Engineer's instructions.	Rft	3,200		
	Total Non Schedule Items				

Bill of Quantities					
Client:	ESTABLISHMENT OF SUFISM & MODERN SCIENCES UNVIERSITY BHITSHAH	Job No.	Revision Date:		
Project:	EXTERNAL PLUMBING, DRAINAGE AND WATER SUPPLY WORKS				
Consult:	Naqvi & Siddiquie, Islamabad	Chkd. By	Date:		
PLINTH PROTECTION WORKS					
Sr.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
1	Providing and laying plinth protection around the building comprising excavation, 4" thick lean concrete foundation under 9" thick brick toe wall, construction of 9" thick brick masonry toe wall approximately 2'-0" deep in cement sand mortar (1:6), filling with approved earth in layers and compaction, 4" thick compacted sand cushion, and 4" thick PCC (1:2:4) topping finished to the required slope away from the building, including curing, backfilling, compaction, labor, materials, tools and all incidental works complete in all respects as per drawings, specifications and Engineer's instructions.	Rft	4,900		
	Total Non Schedule Items				

11. TENDER DRAWINGS

NOTE:
BORROW PUMP AND ALLIED WORKS ARE PART OF
RESPECTIVE BLOCK

TENDER DRAWING

DESIGNED BY:
SULAIL MIMED ASSOCIATES
SULAIL MIMED ASSOCIATES
100, 5th FLOOR, 4-2000, 1000
1000, 5th FLOOR, 4-2000, 1000
1000, 5th FLOOR, 4-2000, 1000
1000, 5th FLOOR, 4-2000, 1000

PROJECT TITLE:
ESTABLISHMENT OF SURVIVAL
AND MODERN SCIENCES
UNIVERSITY BRITISH

DESIGNED BY:
NACI AND SIDDIQ
100, 5th FLOOR, 4-2000, 1000
1000, 5th FLOOR, 4-2000, 1000
1000, 5th FLOOR, 4-2000, 1000
1000, 5th FLOOR, 4-2000, 1000

DESIGNED BY:
NACI AND SIDDIQ
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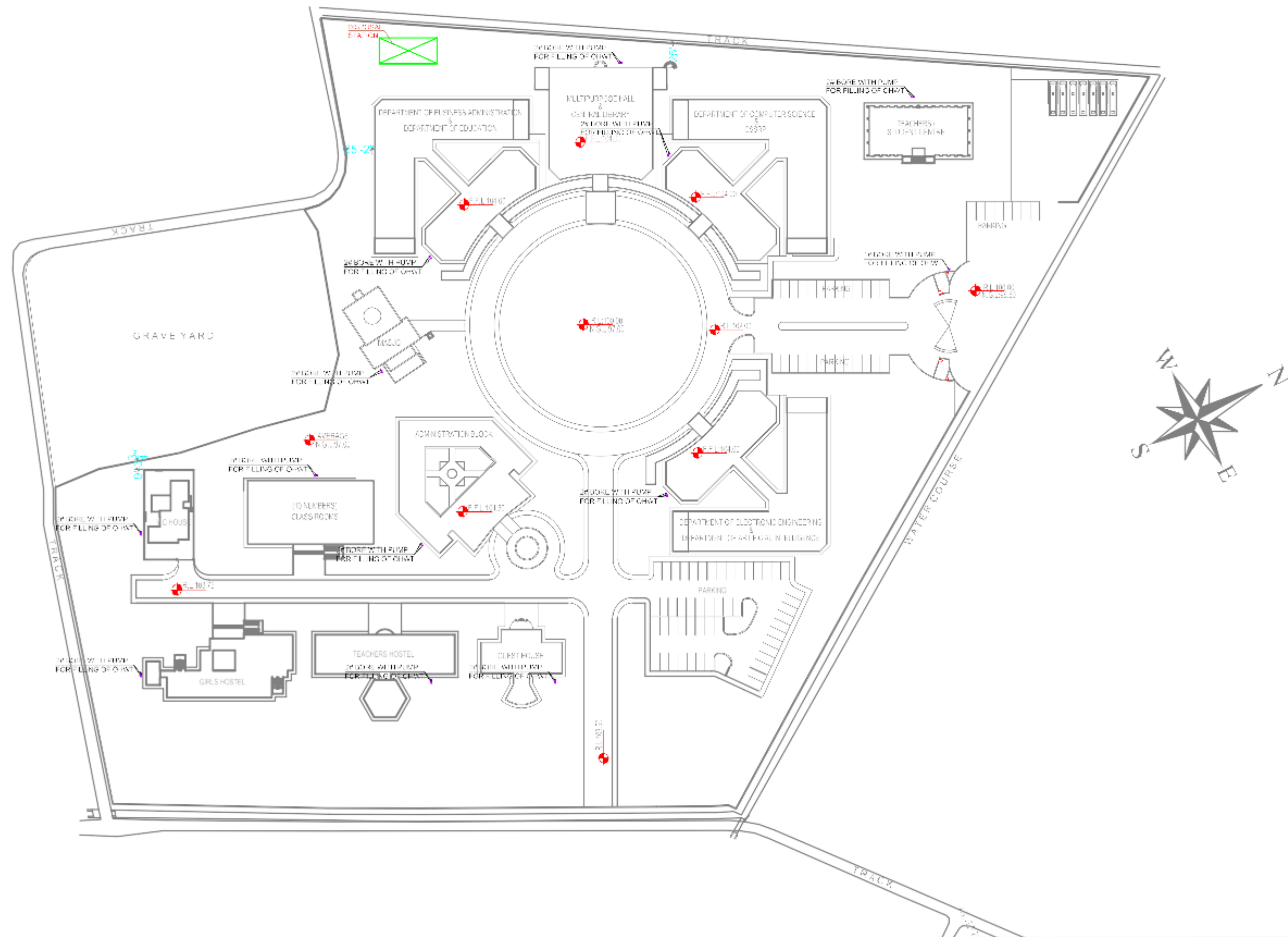
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NACI AND SIDDIQ
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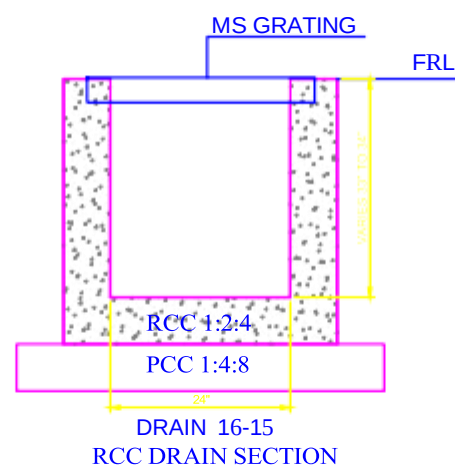
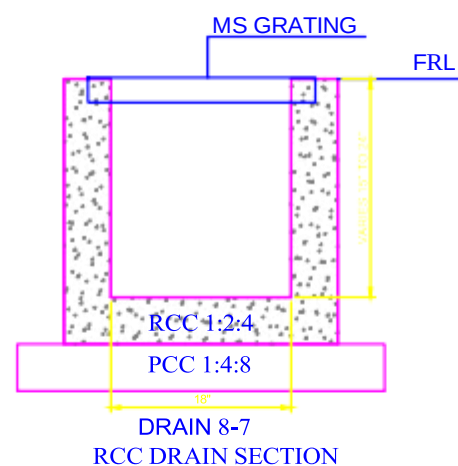
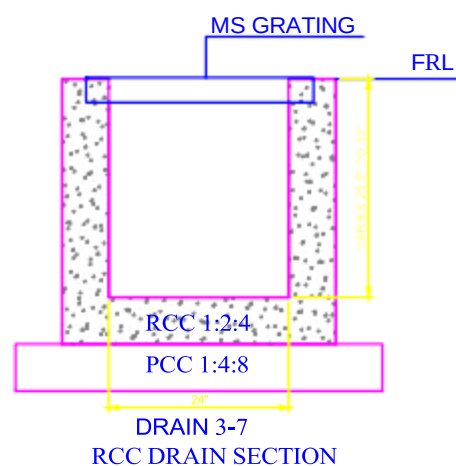
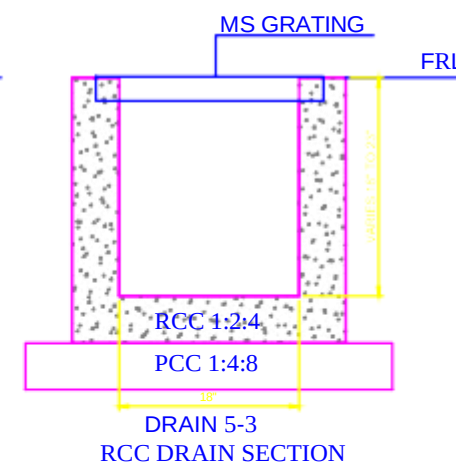
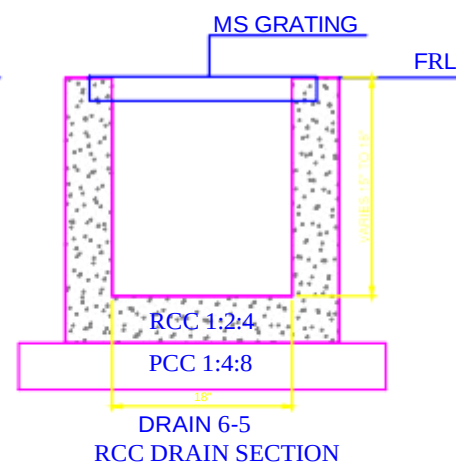
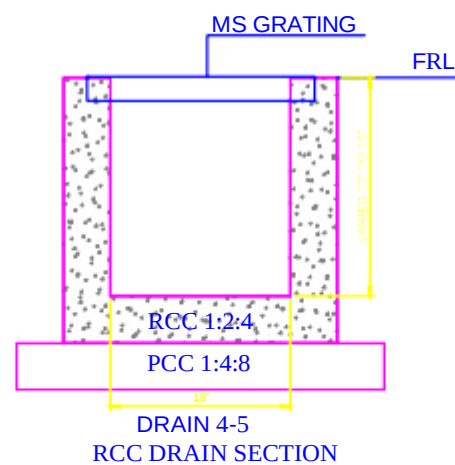
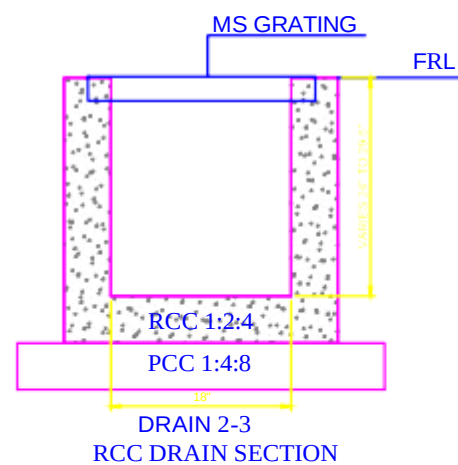
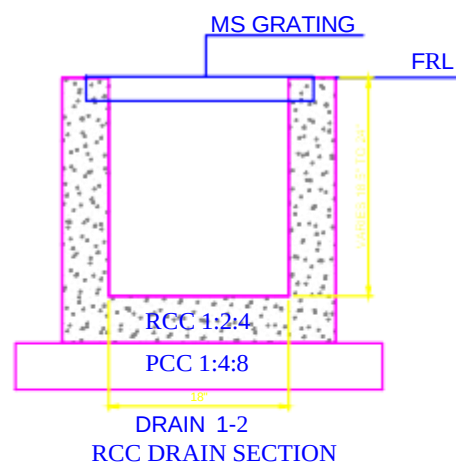
DESIGNED BY:
NACI AND SIDDIQ
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DESIGNED BY:
NACI AND SIDDIQ
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1000, 5th FLOOR, 4-2000, 1000
1000, 5th FLOOR, 4-2000, 1000

MASTER PLAN
(WATER SUPPLY SYSTEM)

PROJECT ARCHITECT: DATE: 17-01-2023 DRAWING NO:
SCALE: 1:500
DRAWN BY: N.T.S.
CHECKED BY: ARSHAD
PH-02





MS GRATING

GENERAL NOTES & COMMENTS
TENDER DRAWING

Purchasing Consultant
SUHAIL AHMED ASSOCIATES
SUHAIL AHMED ASSOCIATES
1001, 10th FLOOR, AL-SABER TOWER
1001, 10th FLOOR, AL-SABER TOWER
1001, 10th FLOOR, AL-SABER TOWER
1001, 10th FLOOR, AL-SABER TOWER

REVISION: RMD DATE:

PROJECT TITLE:

ESTABLISHMENT OF SUFISM
AND MODERN SCIENCES
UNIVERSITY BHITSHSH

DESIGNER
NAQVI AND SIDDIQUE
1001, 10th FLOOR, AL-SABER TOWER
1001, 10th FLOOR, AL-SABER TOWER
1001, 10th FLOOR, AL-SABER TOWER
1001, 10th FLOOR, AL-SABER TOWER

RESIDENT ARCHITECT

P. MASROOR R. SIDDIQUI

DRAWING TITLE

(STORM WATER DRAIN
SECTIONS)

PROJECT ARCHITECT: DATE: 17-01-2020 DRAWING NO:
SCALE: 1:10
DRAWN BY: ARSHAD
CHECKED BY: P. MASROOR R. SIDDIQUI PH-04