

**Directorate of planning & development at (LUAWMS) Balochistan**

Establishment of Permanent campus of Lasbela University of  
Agriculture Water & Marine Sciences (LUDWMS), Uthal at  
Wudh, Lasbela

**STAFF RESIDENCES AND EXTERNAL DEVELOPMENT  
WORKS PHASE-2**

(PACKAGE. 04)

TENDER AND CONTRACT DOCUMENTS



**M/S. ATIF NAZAR (PVT.) LTD. (ANPL)**  
**Joint Venture**  
**M/S. KASIB ASSOCIATES (KA)**

# INVITATION FOR BIDS



To,

1. M/s Khan Traders
2. M/s Tahir Brothers
3. M/s. Farhad Construction JV Rustic Creek Private Limited

## INVITATION FOR BIDS

Date: -  
Loan / Credit No. (if any): -  
Bid Reference No. (if any): -

1. The **Directorate of Planning & Development at (LUAWMS) Balochistan** (“the Employer”) has applied for/received a funding from the Federal PSDP GOP towards the cost of **Establishment of Permanent campus of Lasbela University of Agriculture Water & Marine Sciences (LUAWMS), Uthal at Wudh, Lasbela** and it is intended that part of the proceeds of this funding will be applied to eligible payments under the Contract for the **Staff Residences and External Development Work PHASE-2**.
2. The Employer invites sealed bids on single stage one envelope bidding procedure basis from eligible bidders prequalified for the above stated Works.
3. Bidders may obtain further information from, inspect at and acquire the Bidding Documents from the office of the Employer, at **UTHAL**.
4. A complete set of Bidding Documents may be purchased by an interested Bidder on submission of a written application to the above office and upon payment of a non-refundable fee of **PKR. 5000**.
5. Bids must be accompanied by a Bid Security. Equal to 2% of bid amount an equivalent amount in a freely at or before **12:00 PM** hours, on **10<sup>th</sup> June 2026**. Bids will be opened at **12:30PM** hours on the same day, in the presence of Bidder’s representatives who choose to attend at the same address. *[Indicate Address and Exact Location if it differs]*.
6. Bidders wishing to offer discounts, shall be allowed to do so, provided those discounts are included in the Bids.

Director P & D  
LUAWMS at UTHAL

Post Code 90150 District Lasbela Phone: 0853-61-905

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# **INSTRUCTIONS TO BIDDERS (IB)**



## INSTRUCTIONS TO BIDDERS

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## INSTRUCTIONS TO BIDDERS

*[Mandatory Provisions not to be amended/substituted  
except as instructed by PEC in writing]*

### A. GENERAL

- |             |                         |     |  |
|-------------|-------------------------|-----|--|
| <b>IB.1</b> | <b>Scope of Bid</b>     | 1.1 | The Employer as defined in the <b>Bidding Data</b> hereinafter called “the Employer” wishes to receive bids for the construction and completion of works as described in these Bidding Documents, and summarized in the <b>Bidding Data</b> hereinafter referred to as the “Works”.  |
|             |                         | 1.2 | The successful Bidder will be expected to complete the Works within the time specified in the <b>Bidding Data</b> .  |
| <b>IB.2</b> | <b>Source of Funds</b>  | 2.1 | The Employer has applied for/received a funding from the source(s) in various currencies towards the cost of the project specified in the <b>Bidding Data</b> and it is intended that part of the proceeds of this funding will be applied to eligible payments under the Contract for which these Bidding Documents are issued.   |
| <b>IB.3</b> | <b>Eligible Bidders</b> | 3.1 | <p>This Invitation for Bids is open to all Bidders meeting the following requirements at the time of submission of Bids and thereafter:</p> <p>(a) Duly prequalified for this bidding process;</p> <p>(b) Duly licensed by the Pakistan Engineering Council (PEC) in the category relevant to the value of the Works in the relevant field of specialization.</p> <p>However, a Foreign Constructor can submit provisional licence with its Bid but the Foreign Constructor will be required to submit standard licence after award of Contract and before start of work.</p> <p>Foreign Constructor shall not be eligible to participate in bidding individually. Foreign Constructor shall enter into joint venture with Pakistani Constructor registered with the Pakistan Engineering Council in equivalent/compatible category and submit the joint venture agreement to the Employer before participating in bidding in accordance with PEC Construction and Operation of Engineering Works Bye-laws, 1987;</p> <p>(c) Pakistani Constructor must be on Active Taxpayer List of the Federal Board of Revenue and provincial revenue authority/ board where applicable; and</p> <p>(d) All partners constituting the Bidder including proposed subcontractors do not appear in the list of debarred/blacklisted firms and individuals on the websites of PEC and Federal &amp; Provincial Procurement Regulatory Authorities and have not been declared debarred/blacklisted by foreign country, international organizations or other foreign institutions.</p> |



- IB.4 Eligible Materials, Equipment and Services**
- 4.1 All materials, equipment and services to be supplied under this Contract shall have their origin in eligible countries described under paragraph 4.4 hereunder.
- 4.2 For purpose of this Clause, “origin” means the place where the Goods are mined, grown or produced or from where the ancillary services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 4.3 The origin of Goods and Services is distinct from the nationality of the Bidder.
- 4.4 Eligible countries to participate in this bidding process are those which have been notified by Ministry of Interior, Government of Pakistan as Business Friendly Countries (BVL); information can be accessed through following link: <http://www.dgip.gov.pk/Files/Visa%20Categories.aspx#L>
- IB.5 One Bid per Bidder**
- 5.1 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.17) will be disqualified.
- IB.6 Site Visit**
- 6.1 The Bidders are advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility 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 Employer 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 Employer, 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**
- 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;
3. Evaluation Criteria and Qualification Updating Forms;
4. General Conditions (GC);
5. Particular Conditions (PC):
  - Part A - Contract Data;
  - Part B - Special Provisions;
6. Specifications (SP):
  - Part A - Specific Provisions;
  - Part B - Technical Provisions;
7. Letter of Bid;
8. Schedules to Bid;
9. Standard Forms:
  - (i) Form of Bid Security;
  - (ii) Letter of Acceptance;
  - (iii) Form of Contract Agreement;
  - (iv) Form of Performance Security;
  - (v) DAAB Agreement;
  - (vi) Form of Mobilization Advance Guarantee;
10. 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, Pre-Bid Meeting**

- 8.1 Any prospective Bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Employer in writing at the Employer's address indicated in the Invitation for Bids. The Employer will respond to any request for clarification which he receives earlier than the period specified in the **Bidding Data**, prior to the deadline for submission of bids.
- 8.2 Copies of the Employer's response will be forwarded to all purchasers of the Bidding Documents, including a description of the enquiry but without identifying its source.
- 8.3 The Employer may, on his own or at the request of any prospective Bidder(s), 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, are as stipulated in the **Bidding Data**. All prospective Bidders or their authorized representatives shall be invited to attend such a pre-bid meeting.
- 8.4 The Bidders are requested to submit questions, if any, in writing so as to reach the Employer not later than seven (7) days before the proposed pre-bid meeting.



- 8.5 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bidding Documents. 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 Employer exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.
- 8.6 Absence at the pre-bid meeting will not be a cause for disqualification of a Bidder.
- IB.9 Amendment of Bidding Documents**
- 9.1 At any time prior to the deadline for submission of bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the Bidding Documents listed in Sub-Clause IB.7.1 hereof and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective Bidders shall acknowledge receipt of each addendum in writing to the Employer.
- 9.3 Such addendum shall be issued not later than number of days prior to the deadline for submission of bids, specified in the **Bidding Data**. To afford prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may extend the deadline for submission of bids in accordance with Clause IB.20.
- C. PREPARATION OF BIDS**
- IB.10 Cost of Bidding**
- 10.1 The Bidders shall bear all costs associated with the preparation and submission of their respective bids and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- IB.11 Language of Bid**
- 11.1 The Bid and all correspondence and documents related to the Bid exchanged by a Bidder and the Employer shall be in the Bid language stipulated in the **Bidding Data** and Particular Conditions of Contract. Supporting documents and printed literature furnished by the Bidders may be in any other language provided the same are accompanied by duly certified 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.12 Documents Comprising the Bid**
- 12.1 Each Bidder shall:
- (a) submit duly filled in, signed and stamped Letter of Bid and completed Schedules to Bid as required, including priced Bill of Quantities, in accordance with Clause IB.18 hereof;



- (b) submit Bid Security in accordance with Clause IB.16 hereof;
  - (c) submit alternative proposal, if permissible in accordance with Clause IB.17;
  - (d) submit a written power of attorney authorizing the signatory of the Bid to act for and on behalf of the Bidder. The name and position held by each person signing the authorization must be typed or printed below the signature;
  - (e) submit the Qualification Updating Forms duly filled in, signed and stamped along with requisite attachments, to establish that the Bidder continues to meet the Eligibility and Qualification Criteria set out in the Pre-Qualification Documents and as provided in the Section "Evaluation Criteria and Qualification Updating Forms";
  - (f) furnish a technical proposal taking into account the various Schedules to Bid, specially the following:
    - Schedule-C to Bid, Proposed Construction Schedule;
    - Schedule-D to Bid, Method of Performing the Work;
    - Schedule-E to Bid, List of Major Equipment;
    - Schedule-F to Bid, Organization Chart for Supervisory Staff;and other pertinent information, such as mobilization programme, etc.
- 12.2 Bids submitted by a joint venture of two (2) or more firms specified in **Bidding Data**, shall comply with the following requirements:
- (a) the bid, and in case of a successful bid, the Form of Contract Agreement shall be signed by all members so as to be legally binding on all partners;
  - (b) 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;
  - (c) the partner-in-charge shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;
  - (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(b) above as well as in the Letter 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 and corresponding duties & responsibilities of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments/ modifications whatsoever in the joint venture agreements shall be agreed to between the joint venture partners without prior written consent of the Employer.

- 12.3 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 in Sub-Clause IB.1.2 hereof.

### **IB.13 Bid Prices**

- 13.1 The price and discount if any quoted by the Bidders in the Letter of Bid and in the Bill of Quantity shall conform to the requirement specified below:
- 13.2 The Bidder shall quote any discounts and the methodology for their application.
- 13.3 If bids are being invited for individual lots (contracts) or for any combination of lots, the Bidders can offer discounts for the individual lots (contracts) as well as for award of more than one Contract and shall specify in their bid.
- 13.4 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works as described in Sub-Clause IB.1.1 hereof, based on the unit rates and/or prices.
- 13.5 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 Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.
- 13.6 All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to the deadline for submission of bids shall be included in the rates and prices and the total Bid Price submitted by a Bidder.



Additional/reduced duties, taxes and levies due to subsequent additions or changes in legislation shall be reimbursed/deducted as per Sub Clause 13.6 [*Adjustment for Changes in Laws*] of the Conditions of Contract.

13.7 The rates and prices quoted by the Bidders are subject to adjustment during the performance of the Contract in accordance with the provisions of Sub-Clause 13.7 [*Adjustments for Changes in Cost*] of the General Conditions of Contract. The Bidders shall furnish the prescribed information for the price adjustment formulae in Schedule-A to Bid, and shall submit with their bids such other requisite supporting information if required under the said Schedule.

#### **IB.14 Currencies of Bid and Payment**

14.1 The unit rates and the prices shall be quoted by the Bidder entirely PKR.

A Bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer's country (referred to as the "Foreign Currency Requirements") shall indicate in Table III of Schedule-A to Bid the proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements; in such case the unit rates and the prices shall be quoted by the Bidder in Equivalent PKR.

14.2 The rates of exchange to be used by the Bidder for currency conversion shall be the TT Selling Rates published or authorized by the State Bank of Pakistan prevailing on the date twenty eight (28) days prior to the deadline for submission of bids. Such rates shall be notified by the Employer not later than fourteen (14) 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 the Contract.

#### **IB.15 Bid Validity**

15.1 Bids shall remain valid for the period stipulated in the **Bidding Data** after the date of Bid Opening specified in Clause IB.23.

15.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the Bidders extend the period of validity for a specified additional period which normally may not be more than the original bid validity period. The request and the responses thereto shall be made in writing. A Bidder may refuse the request without forfeiting his Bid Security. A Bidder agreeing to the request will not be required or permitted to modify his 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.16 in all respects.

#### **IB.16 Bid Security**

16.1 Each Bidder shall furnish, as part of his bid, a Bid Security in original form in the amount stipulated in the **Bidding Data** in PKR or an equivalent amount in a freely convertible currency.



- 16.2 The Bid Security shall be, at the option of the Bidder, in the form of Call Deposit Receipt (CDR)/ Pay Order or a Security issued in the prescribed form included in the Bidding Documents, by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the **Bidding Data** and rated by PACRA/VIS of rating as provided in Table below in favour of the Employer valid for a period 14 days beyond the Bid Validity date. The Bid Security of Joint Venture shall be in the name of Joint Venture or Lead/each Firm of the JV or in ratio of shares of the individual JV partners, submitting the bid.

Bid Price (In Eq. million PKR)	Minimum Rating of Insurance Companies
Up to 1000	A (+)
1001 to no limit	AA
<i>[Note: Insurance Company includes Joint Ventures of Insurance Companies also]</i>	

- 16.3 Any Bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.
- 16.4 The Bid Securities of the Bidders except the lowest three will be returned by the Employer within twenty-eight (28) days from the opening of Bids, provided a Bidder requests for the return of its Bid Security, or upon the expiry of original validity of Bid Security or as extended, whichever is earlier.
- 16.5 The Bid Security of the lowest three Bidders including the successful Bidder will be returned when the successful Bidder has furnished the required Performance Security.
- 16.6 The Bid Security may be forfeited:
- if the Bidder withdraws his bid except as provided in Sub Clause IB.22.1;
  - if the Bidder does not accept the correction of his Bid Price pursuant to Sub Clause IB.28.2 hereof; or
  - in the case of successful Bidder, fails to furnish the required Performance Security.
- 16.7 In case of annulment, all Bids submitted and specially, Bid securities, shall be returned to the Bidders within 14 days of annulment.

#### **IB.17 Alternative Proposals by Bidder**

- 17.1 Unless otherwise specified in the **Bidding Data**, alternative proposal(s) shall not be considered.
- 17.2 Should any Bidder consider that he can offer any advantages to the Employer by a modification to the designs, specifications or other conditions, he may, in addition to his Bid to be submitted in strict compliance with the Bidding Documents, submit any alternative proposal(s) containing (a)



relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details/conditions, provided always that the total submitted on the Letter of Bid shall be that which represents complete compliance with the Bidding Documents.

### **IB.18 Format and Signing of Bid**

- 17.3 Alternative proposal(s), if any, of the Bidder having submitted most advantageous Bid only may be considered by the Employer as the basis for the award of Contract to such Bidder.
- 18.1 Bidders are particularly directed that the amount entered on the Letter of Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.
- 18.2 All Schedules to Bid are to be properly completed and signed.
- 18.3 No alteration is to be made in the Letter of Bid nor in the Schedules 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 in the forms completely and without alterations one (1) original and number of copies, specified in the **Bidding Data**, of the documents comprising the Bid as described in Clause IB.12 and clearly mark them "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
- The Bidder shall also provide complete searchable PDF versions as well as Word, Excel, etc., versions of the Bid if so required in the **Bidding Data**.
- 18.5 The original of the Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder pursuant to Sub-Clause IB.12.1(d) hereof. All pages of the Bid shall be initialed and stamped by the person or persons signing the bid.
- 18.6 The Bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, or as are necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.
- 18.7 Bidders shall indicate in the space provided in the Letter of Bid their full and proper 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 and the Bid as their file copy.
- 18.9 All documents executed outside Pakistan required to be submitted with the Bid must be certified by Pakistani Embassy in the respective country(ies).



## D. SUBMISSION OF BIDS

### IB.19 Sealing and Marking of Bids

- 19.1 Each Bidder shall submit his Bid as under:
- (a) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
  - (b) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in Sub Clause IB.19.2 hereof.
- 19.2 The inner and outer envelopes shall:
- (a) be addressed to the Employer at the address provided in the **Bidding Data**;
  - (b) bear the specific identification of this bidding process as specified 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 IB.19.2 hereof, the inner envelope shall indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared "late" pursuant to Clause IB.21.
- 19.4 If the outer envelope is not sealed and marked as above, the Employer 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 Employer at the address specified no 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 will 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 envelope.
  - (d) Upon request, acknowledgment of receipt of Bids will be provided to those making delivery in person or by messenger.
- 20.2 The Employer may, at his discretion, extend the deadline for submission of Bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Employer and the Bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.



- IB.21 Late Bids**
- 21.1 (a) Any Bid received by the Employer after the deadline for submission of bids prescribed in Clause IB.20 shall be declared late, rejected and 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 determine the manner in which timely delivery of his Bid will be accomplished either in person, by messenger or by mail.
- 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 Employer 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 Sub Clauses IB.22.1 and 28.2.
- 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 Letter of Bid may result in forfeiture of the Bid security in pursuance to Clause IB.16.

#### E. BID OPENING AND EVALUATION

- IB.23 Bid Opening**
- 23.1 The Employer 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' representatives who are present shall sign a register evidencing their attendance.
- 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. Only bids that are opened and read out at Bid opening shall be considered further.
- 23.3 The Bidder's name, total Bid Price and price of any alternative proposal(s), any discounts, Bid modifications, substitution and withdrawals, the presence or absence of Bid security, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening of Bids. Only discounts and alternative proposals



read out at Bid opening shall be considered for evaluation. The Letter of Bid and the Summary Bill of Quantities are to be initialled by representative(s) of the Employer attending Bid opening. The Employer shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with Sub-Clause IB 21.1).

23.4 The Employer 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**

24.1 Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of Contract shall not be disclosed to Bidders or any other person not officially concerned with such process before the announcement of the result of Bid evaluation in the form of final evaluation report giving justification for acceptance or rejection of Bids which shall be done at least fifteen (15) days prior to award of Contract. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the Bids evaluated. Any effort by a Bidder to influence the Employer's processing of Bids or Contract award decisions may result in the rejection of such Bidder's Bid. Whereas any Bidder feeling aggrieved may lodge a written complaint not later than five (5) days after the announcement of the final evaluation report.

**IB.25 Clarification of Bids**

25.1 To assist in the examination, evaluation and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates and lump sum prices. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The request for clarification and the response shall be in writing. 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 Employer in the evaluation of the Bids in accordance with Clause IB.28.

25.2 The Employer may, at his discretion, ask any Bidder for confirmation/submission of missing information to clarify its Bid. However, the Employer does not have an obligation to request any additional information or clarification with respect to missing or deficient information in a Bid. The Employer may reject any Bid as non-responsive if found materially incomplete, obscure, irregular or omitting any material information required to be submitted in accordance with the Bidding Documents.

25.3 If a Bidder does not provide clarifications of its Bid by the date and time set reasonably (not less than seven (7) days) in the Employer's request for clarification, the Employer may proceed with the evaluation based on the information submitted in the Bid without waiting for the Bidder's response.



- IB.26 Examination of Bids and Determination of Responsiveness**
- 26.1 Prior to the comparison of Bids, the Employer will determine whether each Bid is substantially responsive to the requirements of the Bidding Documents.
- 26.2 The Employer's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in Sub-Clause IB.12.
- 26.3 A substantially responsive Bid is one which meets the requirements of the Bidding Documents, without material deviation, reservation or omission. A material deviation, reservation or omission is one that,
- (a) if accepted, would:
    - (i) affect in any substantial way the scope, quality or performance of the Works; or
    - (ii) limit in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the Bidder's obligations under the proposed Contract; or
  - (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.
- 26.4 During the evaluation of Bids, the following definitions apply:
- (a) "Deviation" is a departure from the requirements specified in the Bidding Documents;
  - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of therequirements specified in the Bidding Documents; and
  - (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Documents.
- 26.5 The Employer shall examine the technical aspects of the Bid submitted in accordance with Sub-Clause IB.12.1(f), in particular, to confirm that all requirements stated in Specifications have been met without any material deviation, reservation or omission.
- 26.6 If a Bid is not substantially responsive to the requirements of the Bidding Documents, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation, reservation or omission.
- IB.27 Nonmaterial Nonconformities**
- 27.1 Provided that a Bid is substantially responsive, the Employer may waive any nonconformities in the Bid.
- 27.2 Provided that a Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Bid related to documentation requirements. Requesting information or



documentation on such nonconformities shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

27.3 Provided that a Bid is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component, by adding the average price of the item or component quoted by other lowest two evaluated substantially responsive Bidders. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Employer shall use a suitable CSR, adjusted to the date 28 days earlier to the Bid submission date or its best assessment.

**IB.28 Correction of Arithmetic Errors**

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

- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.
- (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 Employer 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.
- (c) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.

28.2 The amount stated in the Letter of Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected Bid Price, his Bid will be rejected, and the Bid security shall be forfeited in accordance with Sub Clause IB.16.6(b) hereof.

**IB.29 Evaluation and Comparison of Bids**

29.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26. The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.

29.2 In evaluating and comparing the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:

- (a) making any correction for arithmetic errors pursuant to Clause IB.28;



- (b) price adjustment due to discounts offered in accordance with Sub-Clause IB.23.3;
- (c) excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities, but including competitively priced daywork;
- (d) making an appropriate price adjustment for any quantifiable nonmaterial nonconformities in accordance with Sub-Clause IB.27.3; and
- (e) the additional evaluation factors are specified in Section Evaluation Criteria and Qualification Updating Forms.

29.3 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 Bids' comparison.

**IB.30 Abnormally Low Bids**

30.1 If the Bid Price of the successful Bidder is more than 15% below the lower of the Employer's estimate of the cost of work to be performed under the Contract or average of other lowest two evaluated substantially responsive Bids, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require an additional Performance Security by 10% of the difference of the Bid Price as determined hereinabove up to issuance of Taking Over Certificate at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. The Bids having Bid Price lower than 25% shall be liable to be rejected.

**IB.31 Unbalanced or Front Loaded Bids**

31.1 If the Bid of the successful Bidder is seriously unbalanced (Front Loaded) in relation to the average of other evaluated substantially responsive Bids, the Employer during execution of contract may pay against measured quantities of significantly higher quoted line item(s) rate(s) with respect to same line item(s) rate(s) determined from the average of other lowest two evaluated substantially responsive Bids as instructed by the Engineer. The balance line item(s) rate(s) may be paid against the same measured quantities at the time of issuance of Taking Over Certificate or as instructed by the Engineer.

**F. AWARD OF CONTRACT**

**IB.32 Award Criteria**

32.1 Subject to Clauses IB.33 and IB.39, the Employer will award the Contract to the Bidder whose Bid has been determined as most advantageous Bid (substantially responsive to requirements of the Bidding Documents with the lowest evaluated Bid Price).



- IB.33 Employer's Right to Annul the Bidding Process**
- 33.1 Notwithstanding Clause IB.32, the Employer reserves the right to annul the bidding process and reject all Bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or any obligation.
- The Employer shall upon request communicate to any Bidder who submitted a Bid, the grounds for its rejection of all Bids but is not required to justify those grounds. Rejection of all Bids shall be notified to all Bidders promptly.
- IB.34 Notification of Award**
- 34.1 Prior to expiration of the period of Bid validity prescribed by the Employer, the Employer will notify the successful Bidder in writing ("Letter of Acceptance") that his Bid has been accepted. This letter shall name the sum which the Employer 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 "Accepted Contract Amount").
- The Letter of Acceptance will also state the remedies with respect to Sub-Clauses IB.30 & IB.31 if applicable.
- 34.2 No negotiation with the Bidder having submitted most advantageous Bid or any other Bidder shall be permitted, however, Employer may have clarification meetings before issuing Letter of Acceptance to get clarified any item in the Bid evaluation report.
- 34.3 The Letter of Acceptance/ notification of award and its acknowledgement/acceptance by the Bidder will constitute the formation of the Contract, binding the Employer and the Bidder till signing of the formal Contract Agreement.
- 34.4 Upon furnishing by the successful Bidder of a Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful and return their Bid securities in accordance with Sub-Clause IB.16.5.
- IB.35 Performance Security**
- 35.1 The successful Bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the Conditions of Contract and additional Performance Security if applicable under IB.30 as stated in the Letter of Acceptance, within a period of 28 days after the receipt of Letter of Acceptance.
- 35.2 Failure of the successful Bidder to comply with the requirements of Sub Clause IB.35.1 or Clauses IB.36 or IB.37 shall constitute sufficient grounds for the annulment of the award, forfeiture of the Bid security and to award the Contract to the Bidder having submitted next advantageous Bid.
- IB.36 Signing of Contract Agreement**
- 36.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will notify the successful Bidder to depute its representative with appropriate Power of Attorney to sign the Contract Agreement in the form provided in the Bidding Documents, incorporating all agreements between the parties.



- 36.2 The formal Agreement between the Employer and the successful Bidder shall be executed within 14 days of the receipt of the above stated notification by the successful Bidder from the Employer.
- IB.37 Integrity Pact** 37.1 The Bidder shall sign and stamp the Integrity Pact provided at Schedule-J to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding PKR ten million. Failure to provide such Integrity Pact shall make the Bidder non-responsive.
- IB.38 Instructions not Part of Contract** 38.1 Bids shall be prepared and submitted in accordance with the Instructions to Bidders which are provided to assist the Bidders in preparing Bids but do not constitute part of the Contract.
- IB.39 Corrupt and Fraudulent Practices** 39.1 The Employer will reject a Bid if it determines that the Bidder recommended for award, or any of its personnel, or its agents, or its sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract under this bidding.
- 39.2 The Employer will blacklist and hence forthwith debar a Constructor or individual, at any time, in accordance with the prevailing Public Procurement Rules 2004.



## **BIDDING DATA (BD)**



## [NOTES ON BIDDING DATA

*This Section is intended to assist the Employer in providing the specific information in relation to corresponding clauses in Instructions to Bidders and should be prepared to suit each individual contract.*

*The Employer should provide in the Bidding Data information and requirements specific to the circumstances of the Employer, the processing of the Bid, the applicable rules regarding Bid Price and currency, and the Bid evaluation criteria that will apply to the Bids. In preparing this section, the following aspects should be checked:*

- (a) *Information that specifies and complements the provisions of section; Instruction to Bidders must be incorporated,*
- (b) *Amendments and/or supplements, if any, to the provisions of Instructions to Bidders, necessitated by the circumstances of each individual contract, can be introduced only in this section since Instructions to Bidders will remain unchanged, and*
- (c) *Instructions are provided, as needed, in italics, which shall be deleted in the completed document.]*

**BIDDING DATA**

<b>IB Clause Reference</b>	<b>Bidding Data</b>
<b>1.1</b>	Name and address of the Employer: <i>Directorate of planning &amp; development at (LUAWMS) Balochistan</i>
<b>1.1</b>	Name of the Project & Summary of the Works: <i>Establishment of Permanent campus of Lasbela University of Agriculture Water &amp; Marine Sciences (LUDWMS), Uthal at Wudh, Lasbela, Staff Residences and External Development PKG 04</i>
<b>1.2</b>	Time for Completion for the Works: <u>365</u> days
<b>2.1</b>	Name of the Borrower/Source of Funding: <i>Higher Education Commission of Pakistan (HEC) (PSPP) funded</i>
<b>2.1</b>	Amount and type of Funding: PAK- Rupees
<b>8.1</b>	Time limit for clarification: <u>7</u> days
<b>8.3</b>	Venue, time, and date of the pre-Bid meeting: (As Per NIT)
<b>9.3</b>	Number of days: fourteen (7)
<b>11.1</b>	Bid language: English



IB Clause Reference	Bidding Data
12.2	Only prequalified bidders can submit the bid.
14.1	Bidders to quote entirely in Pak. Rs.
15.1	Period of Bid Validity: 90 days
16.1	Amount of Bid Security: 2% of paid cost
16.2	List of Insurance Companies: Only pay order or call deposit from scheduled Bank of State- Bank of Pakistan
17.1	Alternative Proposal(s) by the Bidder <i>shall not be</i> considered.
18.4	Number of copies of the Bid to be completed and submitted: One original and two copies

IB Clause Reference	Bidding Data
	Searchable pdf versions as well as word, excel etc. versions of the Bid are required: <b>Yes</b>
19.2(a)	Employer's address for the purpose of Bid submission: (As per NIT)
19.2(b)	Name and Number of the Contract: <b>Director Planning &amp; Development LUAWMS-UTHAL. Tel: 0333-7855433</b>
20.1(a)	Deadline for submission of Bids: (As per NIT)
23.1	Venue, time, and date of Bid opening: (As per NIT)



# **EVALUATION CRITERIA AND QUALIFICATION UPDATING FORMS**



## EVALUATION CRITERIA AND QUALIFICATION UPDATING FORMS

### 1. General

This Section contains Eligibility and Qualification Criteria that the Employer shall use to evaluate Bids and qualify Bidders in accordance with Clauses IB.26 of Instructions to Bidders. The Bidder shall provide all the information requested in the relevant forms contained in Bidder's Qualification Updating Forms provided herein.

The information provided in the forms shall be substantiated with valid documentary evidences otherwise the requirement will not be considered as complied.

Wherever a Bidder is required to state a monetary amount, Bidders shall indicate the PKR equivalent using the rate of exchange determined as follows:

- For financial data - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted) was originally established.

Exchange rates shall be taken from the publicly available source identified in the Sub-Clause IB.14.2. Any error in determining the exchange rates in the Bid may be corrected by the Employer.

### 2. Domestic Preference

A margin of preference of 7.5% (seven and a half percent) shall be granted to domestic Bidders (in case of JV, all partners are Pakistani Constructors), in accordance with and subject to the following provisions:

- (a) The Bidders applying for such preference shall provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Employer, a Bidder qualifies for a domestic preference.
- (b) After Bids have been received and reviewed by the Employer, responsive Bids shall be classified into the following groups:
  - (i) Group A: Bids offered by domestic Bidders eligible for the preference.
  - (ii) Group B: Bids offered by other Bidders.

All evaluated Bids in each group shall, as a first evaluation step, be compared to determine the lowest Bid, and the lowest evaluated Bids in each group shall be further compared with each other. If, as a result of this comparison, a Bid from Group A is the lowest, it shall be selected for the award. If a Bid from Group B is the lowest, as a second evaluation step, all Bids from Group B shall then be further compared with the lowest evaluated Bid from Group A. For the purpose of this further comparison only, an amount equal to 7.5% (seven and a half percent) of the respective Bid Price corrected for arithmetical errors, including unconditional discounts and excluding Provisional Sums and the cost of dayworks, if any, shall be added to the evaluated price offered in each Bid from Group B. If the Bid from Group A is the lowest, it shall be selected for award. If not, the lowest evaluated Bid from Group B based on the first evaluation step shall be selected.



### 3. Evaluation (IB 29.2(e))

In addition to the criteria listed in IB 29.2 (a) - (d) the following criteria shall apply:

#### 3.1 Assessment of adequacy of Technical Proposal with Requirements

#### 3.2 Multiple Contracts, if permitted under Sub-Clause 1.1 of Bidding Data, will be evaluated as follows:

##### Award Criteria for Multiple Contracts

Bidders have the option to Bid for any one or more lots. Bids will be evaluated lot-wise, taking into account discounts offered, if any, for combined lots. The contract(s) will be awarded to the Bidder or Bidders offering the lowest evaluated cost to the Employer for combined lots, subject to the selected Bidder(s) meeting the required qualification criteria for lot or combination of lots as the case may be.

##### Qualification Criteria for Multiple Contracts

This Section describes criteria for qualification for each lot (contract). For multiple lots (contracts) the criteria for qualification is aggregate minimum requirement for respective lots.

#### 3.3 Price Adjustments, if permitted under IB.29.2(d), will be evaluated as follows:

##### (a) Price Adjustment for Completeness in Scope of Work

In case of omission in the scope of work of a quoted item, no price adjustment for the omitted item(s) shall be applied provided that the Bidder has mentioned in his Bid that the same is covered in any other item. Otherwise the adjustments will be applied for comparison purpose only, taking the average price quoted by other lowest two evaluated substantially responsive Bidders in their original Bids for corresponding item. In case of non-availability of price from other Bidders, the price will be estimated by the Employer from a suitable CSR, adjusted to the date 28 days earlier to the Bid submission date or the Employer shall use its best assessment.

The price adjustment shall not justify any additional payment by the Employer and the price(s) of omitted item(s) shall be deemed covered by other prices of the Bill of Quantities.

##### (b) Price Adjustment for Technical/ Commercial Non Compliance

The cost of making good any deficiency resulting from technical/commercial non-compliance will be added to the Corrected Total Bid Price for comparison purpose only.

The adjustments will be applied taking the average price quoted by other lowest two evaluated substantially responsive Bidders in their original Bids for corresponding item. In case of non-availability of price from other Bidders, the price will be estimated by the Employer in accordance with sub-para (a) hereof.

#### 4. Qualification (Updating of Pre-Qualification)

Eligibility and Qualification information described here below must be met by the legal entity(ies) comprising the Bidder, and not the Bidder's/JV partner's sister or parent companies, subsidiaries or affiliates.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Partners Combined	Each Member	Lead Member	
<b>1. Eligibility</b>							
1.1	<b>PEC Licencing</b>	Licencing by Pakistan Engineering Council (PEC) in accordance with paragraph (b) of Sub-Clause IB.3.1.	must meet requirement	must meet requirement	must be PEC Licencee	N/A	Provisional/ Standard PEC Licence. Foreign Constructor must submit JV Agreement with Pakistani Constructor.
1.2	<b>Pakistani Constructor's Tax Registration</b>	Requirement of Pakistani Constructor on Active Taxpayer List (ATL) of FBR in accordance with paragraph (c) of Sub-Clause IB.3.1.	must meet requirement	N/A	must meet requirement	N/A	Extracts of ATL
1.3	<b>Debarment/Blacklisting</b>	Not having been debarred/blacklisted in accordance with paragraph (d) of Sub-Clause IB.3.1.	Must meet requirement	N/A	Must meet requirement	N/A	Undertaking in the Letter of Bid

**NOTE: Criteria will remain same as per Pre- Qualification.**





Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Partners Combined	Each Member	Lead Member	
<b>2. Pending Litigation</b>							
2.1	<b>Pending Litigation</b>	Bidder's financial position and prospective long term profitability sound according to criteria established in 3.1 below and assuming that all pending litigation will be resolved against the Bidder	Must meet requirement	N/A	Must meet requirement	N/A	Form CON- 1
<b>3. Financial Situation and Performance [Employer to specify requirements for each lot as applicable as prescribed in the Pre-Qualification Documents]</b>							
3.1	<b>Financial Capabilities</b>	(i) The Bidder shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as Eq. PKR for	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN- 3.1, FIN- 3.2, FIN- 3.3, with attachments

**NOTE: Criteria will remain same as per Pre- Qualification.**



Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Partners Combined	Each Member	Lead Member	
		<p>the subject contract(s) net of the Bidders other commitments</p> <p>(ii) The Bidders shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.</p> <p>(iii) The audited balance sheets or, if not required by the laws of the Bidder's country, other financial statements acceptable to the Employer, for the last year shall be submitted and must demonstrate the current soundness of the Bidder's financial position and indicate its prospective long-term profitability.</p>	<p>Must meet requirement</p>	<p>Must meet requirement</p>	<p>N/A</p>	<p>N/A</p>	
			<p>Must meet requirement</p>	<p>N/A</p>	<p>Must meet requirement</p>	<p>N/A</p>	

**NOTE: Criteria will remain same as per Pre- Qualification.**

### **Bidders Qualification Updating Forms**

To establish its qualifications to perform the contract in accordance with Section (Evaluation Criteria and Qualification Updating Forms) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.



**Form ELI -1.1**

**Bidder Information Form**

Date: \_\_\_\_\_

Bid Reference No. (if any) and title: \_\_\_\_\_

Page - \_\_\_\_\_ of \_\_\_\_\_ pages

Bidder's name
In case of Joint Venture (JV), name of each member:
Bidder's country of registration: <i>[indicate country of Constitution]</i>
Bidder's year of incorporation:
Bidder's legal address [in country of registration]:
Bidder's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____
1. Attached are copies of original documents, in case of JV, JV agreement, in accordance with Sub-Clause IB 3.1.

**Form ELI -1.2**

**Bidder's JV Information Form  
(to be completed for each member of Bidder's JV)**

Date: \_\_\_\_\_  
Bid Reference No. (if any) and title: \_\_\_\_\_  
Page \_\_\_\_\_ of \_\_\_\_\_ pages

Bidder's JV name:
JV member's name:
JV member's country of registration:
JV member's year of constitution:
JV member's legal address in country of constitution:
JV member's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____



**Form CON- 1**

**Pending Litigation**

Bidder's Name: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 JV Member's Name \_\_\_\_\_  
 Bid Reference No. (if any) and title: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_ pages

Pending Litigation, in accordance with Eligibility and Qualification Criteria			
<input type="checkbox"/> No pending litigation in accordance with Eligibility and Qualification Criteria, Sub-Factor 2.1. <input type="checkbox"/> Pending litigation in accordance with Eligibility and Qualification Criteria, Sub-Factor 2.1 as indicated below.			
Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), Eq. PKR (exchange rate)
		Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	
		Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	

**Form FIN– 3.1:**  
**Financial Situation and Performance**

Bidder's Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
JV Member's Name \_\_\_\_\_  
Bid Reference No. (if any) and title: \_\_\_\_\_  
Page \_\_\_\_\_ of \_\_\_\_\_ pages

**1. Financial data**

Type of Financial information in (currency)	Historic information for last year, (amount in currency, currency, exchange rate*, Eq. PKR)
Statement of Financial Position (Information from Balance Sheet)	
Total Assets (TA)	
Total Liabilities (TL)	
Total Equity/Net Worth (NW)	
Current Assets (CA)	
Current Liabilities (CL)	
Working Capital (WC)	
Information from Income Statement	
Total Revenue (TR)	
Profits Before Taxes (PBT)	
Cash Flow Information	
Cash Flow from Operating Activities	

\*Refer to IB 14.2 for the exchange rate

**2. Financial documents**

The Bidder and its parties shall provide copies of financial statements for last year pursuant to Eligibility and Qualification Criteria, Sub-factor 3.1. The financial statements shall:

- (a) reflect the financial situation of the Bidder or in case of JV member, and not an affiliated entity (such as parent company or group member).
- (b) be independently audited or certified in accordance with local legislation.
- (c) be complete, including all notes to the financial statements.
- (d) correspond to accounting periods already completed and audited.

Attached are copies of financial statements<sup>1</sup> for the last year required above; and complying with the requirements

<sup>1</sup> If the most recent set of financial statements is for a period earlier than 12 months from the date of bid, the reason for this should be justified.



**Form FIN- 3.2:**

**Financial Resources**

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

No.	Source of financing	Amount (Eq. PKR)
1		
2		
3		



**Form FIN- 3.3:**

**Current Contract Commitments / Works in Progress**

Bidders and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

<b>Current Contract Commitments</b>					
<b>No.</b>	<b>Name of Contract</b>	<b>Employer's Contact Address, Tel, Fax</b>	<b>Value of Outstanding Work [Current Eq. PKR]</b>	<b>Estimated Completion Date</b>	<b>Average Monthly Invoicing Over Last Six Months [Eq. PKR /month]</b>
1					
2					
3					
4					
5					



**LETTER OF BID  
AND  
SCHEDULES TO BID**





Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_

Signature: \_\_\_\_\_

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

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

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

\_\_\_\_\_

\_\_\_\_\_

Witness:

Signature: \_\_\_\_\_

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

Address. \_\_\_\_\_

Occupation \_\_\_\_\_

\_\_\_\_\_



**A-1**  
**Schedule-A to Bid**

## SCHEDULE OF ADJUSTMENT DATA

### Schedule of Cost Indexation

*[The Employer is to engage a professional with experience in construction costs and the inflationary effect on construction costs when preparing the contents of the Schedule of Cost Indexation. In the case of very large and/or complex works contracts, it may be necessary to specify several families of price adjustment formulae corresponding to the different works involved.]*

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

$$P_n = a + b \frac{L_n}{L_o} + c \frac{E_n}{E_o} + d \frac{M_n}{M_o} + \dots$$

where:

“P<sub>n</sub>” is the adjustment multiplier to be applied to the estimated Contract value in the relevant currency of the work carried out in period “n”, this period being a month;

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

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

“L<sub>n</sub>”, “E<sub>n</sub>”, “M<sub>n</sub>”, are the current cost indices or reference prices for period “n”, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates); and

“L<sub>o</sub>”, “E<sub>o</sub>”, “M<sub>o</sub>”, are the base cost indices or reference prices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the Base Date.

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

If the currency in which the Contract price is expressed is different from the currency of the country of origin of the indices, a correction factor will be applied to avoid incorrect adjustments of the Contract price. The correction factor shall be:  $Z_0 / Z_1$ , where,

$Z_0$  = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price on the Base date, and

$Z_1$  = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price on the Date of Adjustment.



**A-2**  
**Schedule-A to Bid**

**SCHEDULE OF ADJUSTMENT DATA**

**Table I. Local Currency (LC) For Bill Nos. .**

*[In the Table below, the Bidder shall (a) indicate amount of local currency payment, and the Employer shall (b) enter the Index description and source of indices for the different elements of cost, and (c) derive weightings for local currency payment including nonadjustable fixed portion. PEC Standard Procedure and Formula for Price Adjustment (Second Edition), May, 2022 as amended time to time shall be applied for preparation of the following Table.]*

<b>Cost Element</b>	<b>Description</b>	<b>Weight ages</b>	<b>Applicable index</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
(i)	Fixed Portion	0.65	
(ii)	Local Labor	0.10	Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	High Speed Diesel (HSD)	0.10	OGRA or PSO
(iv)	Bitumen	0.15	OGRA or PSO
(v)			
	Total	1.00	



**A-3**  
**Schedule-A to Bid**

### SCHEDULE OF ADJUSTMENT DATA

**Table II. Foreign Currency (FC) For Bill Nos. .**

*[In the Table below, the Bidder shall (a) indicate amount of foreign currency payment, (b) indicate the source and base values of indices for the different foreign currency elements of cost, (c) derive its proposed weightings of foreign currency payment, except the non-adjustable portion which will be filled in by the Employer.*

*If the Bidder wishes to incur in more than one foreign currency (up to two currencies permitted) then this table should be repeated for each foreign currency.]*

Index code	Index description	Source of index	Base value and date	Bidder's related source currency in type/amount	Equivalent in FC1	Bidder's proposed weighting
(i)	Non-adjustable					A: .
(ii)						B: .
(iii)						C: .
(iv)						D: .
(v)						E: .
				<b>Total</b>		<b>1.00</b>



**A-4**  
**Schedule-A to Bid**

**SCHEDULE OF ADJUSTMENT DATA**

**Table III. Foreign Currency Requirements**

*[With reference to Sub Clause IB.14.1, the Bidder shall provide information below on the proportion of various currencies in which he requires payment to be made. The Bidders shall also indicate Factors (inputs) related to the requirement of respective currencies.]*

Sr. No	Currency (name)	Percentage payable in currency	Factors (inputs) to which the Requirements Refer
1.	<b>LC</b> (Pak. Rs.)		* General Expenses Manpower, Local Staff, Expatriate Staff, Spare Parts, Fuel & Lubricants, Hydraulic Binder, Timber & Plywood, Additives & Protectives, Joints & Waterstops, Explosives-Fuses-Detonators, Re-Steel & Wire mesh, Metal Pipes & Fittings, Structural Steel, Miscellaneous Metals, Concrete Pipes, PVC Pipes, Build Materials, Sub-Contractor, Drilling & Grouting Sub-Contractor Third Party Supplies, Import Charges, General Expenses, Plants.
2.	<b>FC1</b> (US \$ Dollar)		* Expatriate Staff, Spare Parts, Hydraulic Binder, Timber & Plywood, Additives & Protectives, Drilling Materials, Miscellaneous, Sub-Contractor, Import Charges, General Expenses, Plants.
3.	<b>FC2</b> (EUR€ EURO)		* Expatriate Staff, Spare Parts, Additives & Protectives, Welding Materials, Miscellaneous, Electrical Sub-Contractor, Import Charges, General Expenses, Equipment, Plants.
<b>TOTAL</b>		<b>100.00</b>	

*[\*The above Factors (Inputs) related to the requirement of respective currencies, are for guidance only, and shall be indicated specific to the Contract.]*



**A-5**  
**Schedule-A to Bid**

### SCHEDULE OF ADJUSTMENT DATA

**Table IV. Summary of Payment Currencies**

*[In the Table below, the Bidder shall list the exchange rates used in the currency conversion with reference to Sub Clause IB.14.2.]*

Name of payment currency	a Amount of currency	b Rate of exchange (local currency per unit of foreign)	c Local currency equivalent $c = a \times b$	d Percentage of Total Bid Price (TBP) $\frac{100 \times c}{TBP}$
Local currency (Pak. Rs)		1.00		
FC1				
FC2				
Total Bid Price				100.00
Provisional sums expressed in local currency	<i>[To be entered by the Employer]</i>		<i>[To be entered by the Employer]</i>	
TOTAL BID PRICE (including provisional sum)				



**B-1**  
**Schedule-B to Bid**

**A. Preamble:****BILL OF QUANTITIES**

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings. **All leads and lifts which are not included in bill of quantity and taken as default as per CSR should be cover through quoted premium. No any leads paid separately.**
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 as given in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
3. The rates and prices as given 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 28 days prior to deadline for submission of Bids, 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.
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, or the same shall be determined by the Engineer in accordance with Clause 13, General Conditions.
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 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 13.4 of General Conditions of Contract.
8. The following abbreviations for units have been used in Bill of Quantities:

<b>Units</b>		<b>Abbreviations</b>
	cum	
Cubic Meter	=	sqm
Square Meter	=	kg
Kilogram	=	PS
Provisional Sum	=	LS
Lump-Sum	=	



## **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 Constructor and verified by the Engineer and valued the rated 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.
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 constructor's plant, labor, 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 constructor under the contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, 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 constructor 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.
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 summarized in the Bill of Quantities. References to the relevant section 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, General Conditions of Contract.
8. No cartage of any material arranged by the contractor himself /themselves will be paid in any shape. Cartage and carriage will be covered in quoted rates by the bidder.
9. Only palatable water of approved quality will be used and Contractors shall have to make their own arrangement of palatable water for use in work at his / their own cost.

10. Concrete shall be mixed with mechanically operated Concrete Mixer with due concentration to aggregate and water ratio.
11. All material shall confirm the standard specifications.
12. No any premium shall be allowed on offered rates.
13. All the debris and surplus stuff shall be removed from the site / disposed of by the contractor for which no any extra cost of cartage etc. shall be paid.
14. All RCC / PCC cast in Situ shall be mechanically vibrated by the contractor for which no any extra cost will be paid.
15. Technical specification attached and NHA/CSR specification shall be adopted.
16. All materials / mixes used in structure shall be tested from recognized laboratory and test report shall be submitted without any delay for which no any extra cost etc. shall be paid.
17. Electricity and other utilities needed in the project shall be the responsibility of contractor for which no any extra cost etc. shall be paid.
18. Camp office / stock / go-down etc. as mentioned in Technical specification constructed at site shall be the responsibility of contractor for which no any extra cost etc. shall be paid.
19. All workers within the execution area should wear protection helmets and full boots and ensure all security measures for lives of labors / inhabitants shall be the responsibility of contractor for which no any extra cost etc. shall be paid.
20. Deployment of Engineers, Supervisor, and Foreman etc. as mentioned in technical specification shall be the responsibility of contractor for which no any extra cost etc. shall be paid.
21. Contractor must visit and satisfy himself with the site condition and BOQ items and any addition item if he consider essential shall be submitted in queries for clarification.
22. Inspection request shall be submitted before 24 hrs. Of execution of any new trade.
23. Pour slip to be submitted for approval of all works well before its execution.
24. All required testing as per Engineering practices and as per instruction of Engineer in charge shall be carried out for verification of quality of work for which no any extra payment shall be paid.

## **BILL OF QUANTITIES**

*(Sample)*

### **B. Work Items:**

1. The Bill of Quantities contains the following Bills and Schedule

Bill No. 1 - General Items

Bill No. 2 - Earthworks

Bill No. 3 - Culverts and Bridges

Bill No. 4 - Subsurface Drains

Bill No. 5 - Miscellaneous Items

Daywork Schedule

Summary of Bill of Quantities

2. Bidders shall price the Bill of Quantities in Pak. Rupees (PKR) only.



**B-3**  
**Schedule-B to Bid**

## BILL OF QUANTITIES

### Bill No. 1 General Items

Item	Description	Specific Provisions Ref.	Unit	Quantity	Rate		Amount PKR
					PKR in figures	PKR in words	
1	2	3	4	5	6		7
101	Insurances of the Works	SP	LS				
102	Insurance of the Goods	SP	LS				
103	Professional Indemnity Insurance	SP	LS				
104	Third party insurance	SP	LS				
105	Workmen Compensation Insurance	SP	LS				
106	Performance Security	SP	LS				
107	Price Adjustment	SP	PS				
108	Provide and equip Engineer's offices	SP	LS				
109	Maintain Engineer's offices	SP	LS				
110	Provide diversion road	SP	LS				
111	Provide for cleaning up the Site on completion	SP	LS				
112	<b>*Provide for other facilities for Engineer and Employer's Personnel</b>		LS				
113	<b>Contingencies</b>		PS				
114	<b>DAAB Fee</b>		PS				
Total for Bill No. 1					(Carried forward to Summary Page)		

[Note: The above descriptions of items are given by way of example only.]\*Refer to SP-14]



**B-4  
Schedule-B to Bid**

**BILL OF QUANTITIES**

**Bill No. 2 Earthworks**

Item	Description	Technical Provisions Ref.	Unit	Quantity	Rate		Amount PKR
					PKR in figures	PKR in words	
1	2	3	4	5	6		7
201		TS					
202							
203							
204							
205							
206							
Total for Bill No. 2					(Carried forward to Summary Page)		

*[Note: The above name of Bill is given for example only.]*



**BILLOFQUANTITIES Bill**

**No. 3 Culverts and Bridges**

Item	Description	Technical Provisions Ref.	Unit	Quantity	Rate		Amount PKR
					PKR in figures	PKR in words	
1	2	3	4	5	6		7
301		TS					
302							
303							
304							
305							
306							
Total for Bill No. 3 _____					(Carried forward to Summary Page)		

*[Note: The above name of Bill is given for example only.]*

**B-6  
Schedule-B to Bid**

**BILL OF QUANTITIES**

**Bill No. 4 Subsurface Drains**

Item	Description	Technical Provisions Ref.	Unit	Quantity	Rate		Amount PKR
					PKR in figures	PKR in words	
1	2	3	4	5	6		7
401							
402							
403							
404							
405							
406							
Total for Bill No. 4					_____	(Carried forward to Summary Page)	

*[Note: The above name of Bill is given for example only.]*



**BILL OF QUANTITIES****Daywork Schedule****C. Daywork****General**

1. Reference is made to Sub-Clause 13.5 of the General Conditions of Contract. Work shall not be executed on a Daywork basis except by written order of the Engineer. Bidders shall enter basic rates for Daywork items in the Schedules, which rates shall apply to any quantity of Daywork ordered by the Engineer. Nominal quantities have been indicated against each item of Daywork, and the extended total for Daywork shall be carried forward to the Bid Price.

**Daywork Labour**

2. In calculating payments due to the Contractor for the execution of Daywork, the actual time of classes of labour directly doing the Daywork 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 time keeping and clerical and office work; the use of consumable stores, water, lighting and power; the use and repair of staging, 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.



**B-9**  
**Schedule-B to Bid**

## BILL OF QUANTITIES

### Daywork Schedule

#### I. Labour

Item No.	Description	Unit	Nominal Quantity	Rate (PKR)	Rate (PKR)	Extended Amount (PKR.)
				in Figure	in Words	
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			
D107	-----etc-----	Hr	--			
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						
<b>Sub Total</b>						
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)		

[Note:

1. The above description of items and their quantities are indicative only; the Employer shall fill the type of Labour and quantities thereof, estimated to be utilized under Daywork.
2. The Bidders are required to fill the rest of the columns, Sub Total and percentage of overhead, profit, etc.]





**BILL OF QUANTITIES****Daywork Schedule****Daywork 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 Daywork 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.



**B-11**  
**Schedule-B to Bid**

## BILL OF QUANTITIES

### Daywork Schedule

#### II. Material

Item No.	Description	Unit	Nominal Quantity	Rate (PKR) in Figure	Rate (PKR) in Words	Extended Amount (PKR)
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	Cu.M	1,000			
D204	-----etc-----	--	--			
D222	Gelignite (Noble Special Gelatine 60 % or equivalent) including caps, fuse, wire and requisite accessories	M.Ton	10			
<b>Sub Total</b>						
Allow _____ percent of subtotal for Contractor's overhead, profit, etc, in accordance with Paragraph 4(b) of Daywork Schedule						
Total for Daywork: Material :				(Carried forward to Daywork Summary)		

[Note:

1. The above description of items and their quantities are indicative only; the Employer shall fill the type of Material and quantities thereof, estimated to be utilized under Daywork.
2. The Bidders are required to fill the rest of the columns, Sub Total and percentage of overhead, profit, etc.]





**BILL OF QUANTITIES****Daywork Schedule****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 Daywork 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 Daywork 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 Pak Rupees (PKR).



**BILL OF QUANTITIES****Daywork Schedule****III. Constructional Plant**

Item No.	Description	Unit	Nominal Quantity	Rate (PKR) in Figure	Rate (PKR) in Words	Extended Amount (PKR)
1	2	3	4	5	6	7
D301	Excavator, face shovel or dragline: 1. Up-to and including 1 Cu.M. 2. Over 1 Cu.M to 2 Cu. M. 3. Over 2 Cu. M	Hr Hr Hr	500 400 100			
D302	Tractor (tracked) including bull or angle dozer: 1. Up-to and including 150 HP 2. Over 150 to 200 HP 3. Over 200 to 250 HP	Hr Hr Hr	500 400 200			
D303	Tractor with ripper: 1. Up-to and including 200 HP 2. Over 200 to 250 HP	Hr Hr	400 200			
D304	-----etc-----	--	--			
<b>Sub Total</b>						
Total for Daywork: Constructional Plant: Summary)				(Carried forward to Daywork Summary)		

*[Note:*

1. The above description of items and their quantities are indicative only; the Employer shall fill the type of Plant and quantities thereof, estimated to be utilized under daywork.
2. The Bidders are required to fill the rest of the columns and Sub Total.]





**BILL OF QUANTITIES****Daywork Schedule****Summary**

<b>Sr. No</b>	<b>Daywork</b>	<b>Amount (PKR)</b>
<b>I.</b>	Labour	
<b>II.</b>	Materials	
<b>III.</b>	Constructional Plant	
Total for Daywork (Carried forward to Summary Page of Bill of Quantities)		



**BILL OF QUANTITIES****Summary**

<b>Bill No</b>	<b>Bill</b>	<b>Amount (PKR)</b>
1.	General Items	
2.	Earthworks	
3.	Culverts and Bridges	
4.	Subsurface Drains	
5.	Miscellaneous Items	
Sub-Total of Bills		
Daywork Schedule		
Bid Price(Carried forward to Letter Of Bid)		
Federal/ Provincial Sales Tax on Services (%) [To be entered by the Employer]		
Grand Total		

**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 13.4 of the General Conditions except with respect to DAAB fees and the expenses in accordance with GC Clause 21.

**CONSTRUCTION SCHEDULE**

Pursuant to Sub-Clause 8.3 of the General Conditions, the whole of the Works, and each Section (if any), shall be completed within the Time for Completion for the Works or Section (as the case may be) stated as hereunder and mentioned in Contract Data:

Description	Time for Completion (days)
a) Whole Works	
b) Section A	
c) Section B	
d) -	
e) -	

*[The Bidder shall provide, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and Sections of the Works may meet Employer's completion targets in days noted above and counted from the Commencement Date (Attach sheets as required for the specified form of Construction Schedule)]*

**D-1  
Schedule-D 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:**

*Shall indicate 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. **Method of executing the Works:**

*The procedures for installation of equipment and machinery and transportation of equipment and materials to the site.]*

**E-1  
Schedule-E to Bid****LIST OF MAJOR EQUIPMENT**

*[The Bidder will provide on Sheet E-2 of this Schedule 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.*

*The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Sheet E-3.]*



**LIST OF MAJOR EQUIPMENT**  
**Owned, Purchased or Leased**

Owned Purchased or Leased	Description of Unit (Make, Model, Year)	Capacity HP Rating	Condition	Present Location or Source	Date of Delivery at Site	Period of Work on Project
a. Owned						
b. To be Purchased						
c. To be arranged on Lease						

**LIST OF MAJOR EQUIPMENT**  
**Equipment details**

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	
The following information shall not be applicable for equipment owned by the Bidder		
Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

*[This Table shall be used for each item of Equipment separately]*



**F-1**  
**Schedule-F to Bid**

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



**G-1  
Schedule-G 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.

<b>Part of Works (Give Details)</b>	<b>Subcontractor (With Complete Address)</b>
<b>1</b>	<b>2</b>







## **CONSTRUCTION CAMP AND HOUSING FACILITIES**

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

*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) Electrical 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.)]*

**Note:**

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.





# STANDARD FORMS



**BS-1****FORM OF BID SECURITY**Security Executed on \_\_\_\_\_  
(Date)Expiry on \_\_\_\_\_  
(Date)Name of Surety with Address: \_\_\_\_\_  
\_\_\_\_\_Name of Principal (Bidder) with Address \_\_\_\_\_  
\_\_\_\_\_Penal Sum of Security PKR \_\_\_\_\_ (Pak Rupees - )  
\_\_\_\_\_ )

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

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

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

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

- (1) WHEREAS, the Employer has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum to the Employer, conditioned as under: that the Bid Security shall remain in force for a period fourteen (14) days beyond the Bid Validity date i.e., upto \_\_\_\_\_ .
- (2) that the Bid Securities of the Bidders except the lowest three will be returned by the Employer within twenty eight (28) days from the opening of Bids, provided a Bidder request for the return of its Bid Security, or on the expiry of original validity of Bid Security or as extended, whichever is earlier;
- (3) that the Bid Security of the lowest three Bidders comprising the successful Bidder will be returned when the successful Bidder has furnished the required Performance Security; and
- (4) that in the event of failure of the successful Bidder to furnish the required Performance Security, the entire said sum be paid immediately to the said Employer pursuant to IB.16 and IB.35 of the Instructions 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 Employer in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.



**BS-2**

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

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

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

SURETY  
(Schedule Bank/Insurance Company)

WITNESS:

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

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Title \_\_\_\_\_  
Corporate Guarantor (Seal)

2. \_\_\_\_\_  
\_\_\_\_\_  
Name, Title & Address

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**FORM OF PERFORMANCE SECURITY**

Guarantee No.       —  
 Executed on       —  
 Expiry date       —

[Letter by the Guarantor to the Employer]

Name of Guarantor with address: \_\_\_\_\_  
 \_\_\_\_\_

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

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

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

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

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

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 11, Defects After Taking Over, of Conditions of Contract are fulfilled.

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

We, \_\_\_\_\_ (the Guarantor), waiving all objections and defense under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments



**PS-2**

and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

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

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

WITNESS:

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

2. \_\_\_\_\_  
\_\_\_\_\_  
Name, Title & Address

**Guarantor**  
(Schedule Bank/ Insurance Company)

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Title \_\_\_\_\_  
Corporate Guarantor (Seal)

LOA-1

## Letter of Acceptance

*[Letterhead paper of the Employer]*

NAME OF CONTRACT: \_\_\_\_\_

CONTRACT NUMBER: \_\_\_\_\_

TO : \_\_\_\_\_

Date: \_\_\_\_\_

Your Reference: \_\_\_\_\_

Our Reference: \_\_\_\_\_

We thank you for your Bid dated \_\_\_\_\_ for the execution and completion of the Works comprising the above-named Contract and remedying of defects therein, all in conformity with the terms and conditions contained in the Contract.

We have pleasure in accepting your Bid for the Accepted Contract Amount of:

\_\_\_\_\_ [currency and amount in figures]

\_\_\_\_\_ [currency and amount in words]

In consideration of you properly and truly performing the Contract, we agree to pay you the Accepted Contract Amount or such other sums to which you may become entitled under the terms of the Contract, at such times and as prescribed by the Contract.

We acknowledge that this Letter of Acceptance creates a binding Contract between us, and we undertake to fulfil all our obligations and duties in accordance with the terms of this Contract.

Signature: \_\_\_\_\_

Signed by: \_\_\_\_\_

For and on behalf of: \_\_\_\_\_

Date: \_\_\_\_\_



## FORM OF CONTRACT AGREEMENT

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

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

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents, in the order of priority, after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement:
  - a) This Contract Agreement;
  - b) The Letter of Acceptance;
  - c) The Letter of Bid;
  - d) The Particular Conditions Part A - Contract Data;
  - e) The Particular Conditions Part B - Special Provisions;
  - f) The General Conditions;
  - g) The Specifications Part A - Specific Provisions;
  - h) The Specifications Part B - Technical Provisions;
  - i) The Drawings;
  - j) The Completed Schedules to Bid including Schedule of Prices;
  - k) the JV Undertaking (if the Contractor is a JV); and
  - l) *[Employer to insert any other documents forming part of the Contract]*

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

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



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

\_\_\_\_\_  
Signature of Contactor

\_\_\_\_\_  
Signature of Employer

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

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

Signed, Sealed and Delivered in the presence of:

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness

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

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



DAAB-1

## DAAB Agreement

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

Name and details of the Contract \_\_\_\_\_  
\_\_\_\_\_

This Agreement made the . . . day of . . . [month], . . . [year], between

Name and contact details of the Employer \_\_\_\_\_ (name)  
\_\_\_\_\_ (address)  
\_\_\_\_\_ (telephone)  
\_\_\_\_\_ (email / other contact details);

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

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

**(“DAAB Agreement”)**

Whereas:

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



**DAAB-2**

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

the “**Other Members**”; and

D. the DAAB Member accepts this appointment.

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

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



**DAAB-3**

SIGNED by: \_  
Print name: \_  
Title: \_\_  
for and on behalf of the  
Employer

SIGNED by: \_  
Print name: \_  
Title: \_\_  
for and on behalf of the  
Contractor

SIGNED by: \_  
DAAB Member  
Title: \_\_

in the presence of

in the presence of

in the presence of

Witness: \_

Witness: \_

Witness: \_

Name: \_

Name: \_

Name: \_

Address: \_

Address: \_

Address: \_

\_\_\_\_\_  
Date: \_

\_\_\_\_\_  
Date: \_

\_\_\_\_\_  
Date: \_

MG-1

**FORM OF MOBILIZATION ADVANCE GUARANTEE/ BOND**

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

WHEREAS \_\_\_\_\_ (hereinafter called the 'Employer')

has entered into a Contract for \_\_\_\_\_

with \_\_\_\_\_  
(Particulars of Contract)  
(hereinafter called the "Contractor").

AND WHEREAS, the Employer has agreed to advance to the Contractor, at the Contractor's request, an amount of Pak Rupees \_\_\_\_\_ (PKR - ) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS, the Employer has asked the Contractor to furnish Guarantee to secure the mobilization advance for the performance of his obligations under the said Contract.

AND WHEREAS, \_\_\_\_\_

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

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

Notice in writing of any default, on the part of the Contractor, of which the Employer at his discretion of making decision, shall be given by the Employer to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

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

The Guarantor's liability under this Guarantee shall not in any case exceed the sum of PKR \_\_\_\_\_ (Pak Rupees \_\_\_\_\_ ).

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



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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.

WITNESS:

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

2. \_\_\_\_\_  
\_\_\_\_\_ Name, Title & Address

Guarantor  
(Scheduled Bank/ Insurance Company)

Signature \_\_\_\_\_  
Name \_\_\_\_\_  
Title \_\_\_\_\_  
Corporate Guarantor (Seal)

# CONDITIONS OF CONTRACT



## CONDITIONS OF CONTRACT

The Conditions of Contract comprise two parts:

- (a) General Conditions
- (b) Particular Conditions

### General Conditions

These Conditions are the “General Conditions” which form part of the “FIDIC Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer Second Edition (2017 Red book, Reprinted 2022 with amendments)” published by:

International Federation of Consulting Engineers  
(Fédération Internationale des Ingénieurs– Conseils)– (FIDIC)  
World Trade Center II - Geneva Airport  
P. O. Box 311  
CH-1215 Geneva 15  
Switzerland  
Email: [fidic@fidic.org](mailto:fidic@fidic.org), [fidic.pub@fidic.org](mailto:fidic.pub@fidic.org)  
Website: <https://fidic.org/bookshop>

The successful Bidder after award of Works shall have to provide two (02) copies of above said “General Conditions” for incorporation in the Contract.



## Particular Conditions

*(Mandatory Provisions not to be amended/substituted  
except as instructed/permited by PEC in writing)*

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

### Part A - Contract Data

Sub-Clause	Data to be Given	Data
1.1.27	Defects Notification Period (DNP):	<u>185</u> days
1.1.31	Employer's name and address:	<i>Directorate of planning &amp; development at (LUAWMS) Balochistan</i>
1.1.35	Engineer's name and address:	<i>M/s Atif Nazar Pvt Ltd. D-11 A Block 17 Gulshan-e-Iqbal, Karachi</i>
1.1.73	Sections:	<i>Refer to Table of content</i>
1.1.84	Time for Completion:	365 days for whole of the Works
1.3(a)(ii)	agreed methods of electronic transmission:	<i>N/a</i>
1.3(d)	address of Employer for communications:	Director Planning & Development LUAWMS-UTHAL. Tel: 0333-7855433
	address of Engineer for communications:	D-11 A Block 17 Gulshan-e-Iqbal, Karachi
	address of Contractor for communications:	Director Planning & Development LUAWMS-UTHAL. Tel: 0333-7855433
1.4	Contract shall be governed by the law of:	Islamic Republic of Pakistan
	ruling language:	English
	language for communications:	English



Sub- Clause	Data to be Given	Data
1.8	number of additional paper copies of Contractor's Documents:	<b>02- copies</b>
2.1	after receiving the Letter of Acceptance, the Contractor shall be given right of access to all or part of the Site within:	No later than the Commencement Date, except for the following parts: 7 days days after Commencement Date
2.4	Employer's financial arrangements	HEC-PSDP Funded GOVT OF PAKISTAN
3.2 (e)(ii)	Engineer's Duties and Authority	Variation resulting in an increase of the Accepted Contract Amount in excess of one percent (1%) subject to accumulative Variations not exceeding five percent (5%) of the Accepted Contract Amount
4.2	Performance Security (as percentage of the Accepted Contract Amount in Currencies) percent: currency:	Ten percent (10%) denominated in the currency(ies) of the Contract or in a freely convertible currency acceptable to the Employer
4.2.1	List of Insurance Companies	1. <u>Adamjee Insurance Company Limited</u> 2. <u>Jubilee Life Insurance Company Limited</u> 3. <u>Eastern Federal Union Company Limited</u>
4.7.2	period for notification of errors in the items of reference	Twenty-Eight (28) days
4.19	period of payment for temporary utilities	each month
4.20	number of additional paper copies of progress reports	<b><u>5 copies in legal size - colour</u></b>
5.1(a)	maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount)	Thirty percent (30%)



Sub-Clause	Data to be Given	Data
5.1(b)	parts of the Works for which subcontracting is not permitted	<u>None</u>
6.5	Normal working hours on the Site	<b>8-hours</b>
8.3	number of additional paper copies of programmes	<b>03</b> _
8.8 & 14.15(b)	Delay Damages payable for each day of delay	<u>0.01</u> % of the Accepted Contract Amount for delay in completion of whole of the Works
8.8	maximum amount of Delay Damages	Ten percent ( <u>10%</u> ) of the Accepted Contract Amount
8.14	Applicability of Incentives for Early Completion	<u>No</u>
12.3	Percentage profit	N/A
13.4.(b)(ii)	percentage rate to be applied to Provisional Sums for overhead charges and profit	Twenty Five percent (25%)
14.2	total Advance Payment	Fifteen percent (15%) of the Accepted Contract Amount excluding Provisional Sums payable in the currencies and proportions in which the Accepted Contract Amount is payable
14.2.1	List of Insurance Companies	Bank Guarantee from scheduled Bank of State- Bank of Pakistan

Sub-Clause	Data to be Given	Data
14.2.3	percentage deductions for the repayment of the Advance Payment	Deduction shall be made at the amortization rate of 17.5 % of the value of the Works executed of each IPC as provided in paragraph (i) of Sub-Clause GCC 14.3, starting from 2 <sup>nd</sup> IPC provided that the advance payment shall be completely repaid prior to the time when 90% of the Accepted Contract Amount less Provisional Sums has been certified for payment. It may be more than 17.5% in the last installment to ensure full repayment.
14.3	period of payment	one month
14.3(b)	number of additional paper copies of Statements	<b>03 copies</b>
14.3 (iii)	percentage of retention	Ten percent (10%)
14.3 (iii)	limit of Retention Money (as a percentage of the Contract Price)	Ten percent (10%)
14.5(b)(i)	Plant and Materials for payment when shipped	Plant and Materials under Bill of "Imported Plant and Materials" or <b><u>N/A</u></b>
14.5(c)(i)	Plant and Materials for payment when delivered to the Site	Plant and Non- Perishable Materials <b><u>N/A</u></b>
14.6.2	minimum amount of Interim Payment Certificate (IPC)	<i>[Employer to give value not exceeding one fifth of the average expected value of Interim Payment Certificate] 5% of the contract</i>
14.7(a)	period of payment of Advance Payment to the Contractor	14 days
14.7b(i)	period for the Employer to make interim payments to the Contractor under Sub-Clause 14.6 [Interim Payment]	15 working for consultant & 15 working days for employer



Sub-Clause	Data to be Given	Data
14.7b(ii)	period for the Employer to make interim payments to the Contractor under Sub-Clause 14.13 (Final Payment)	56 days
14.7(c)	period for the Employer to make final payment to the Contractor	56 days
14.8	financing charges for delayed payment	KIBOR+3% per annum for local currency
14.11.1(b)	number of additional paper copies of draft Final Statements	03
14.15	currencies of payment of Contract Price	as stated in the Table III of Schedule A PAK- Rupees
14.15(a)(i)	Proportions or amounts of Local and Foreign currencies	as stated in the Table IV of Schedule A Deleted
14.15(c)	currencies and proportions for payment of Delay Damages	as stated in the Table IV of Schedule A PAK- Rupees
14.15(f)	rates of exchange	as stated in the Table IV of Schedule A Deleted
17.2(d)	forces of nature, the risks of which are allocated to the Contractor	Nil
19.1	permitted deductible limits: i) insurance required for the Works ii) insurance required for Goods iii) insurance required for liability for breach of professional duty iv) insurance required against liability for fitness for purpose (if any is required) v) insurance required for injury to persons and damage to property vi) insurance required for injury to employees vii) other insurances required by Laws and by local practice	i) Ten percent (10%) of loss amount on each & every loss ii) Nil iii) Nil iv) Nil v) Nil vi) Nil vii) Nil

Sub-Clause	Data to be Given	Data
19.1	Periods for submission of insurance: a) evidence of insurance b) relevant policies	Not later than the Commencement Date  Within twenty eight (28) day from the Commencement Date
19.2.1(b)	additional amount to be insured (as a percentage of the replacement value)	15% of the replacement value (Accepted Contract Amount)
19.2.2	extent of insurance required for Goods  amount of insurance required for Goods	from Ex-Works (i.e., works, factory, warehouse, etc) to delivery at the Site  Full replacement value
19.2.3(a)	amount of insurance required for liability for breach of professional duty	Full replacement value of the Works to be designed by the Contractor
19.2.3(b)	insurance required against liability for fitness for purpose	Yes
19.2.3	period of insurance required for liability for breach of professional duty	Until the date of issuance of Performance Certificate
19.2.4	amount of insurance required for injury to persons and damage to property	Injury to person and Fatal case: in accordance with Workmen Compensation Act  Damage to Property: 5 Million  without limit to the number of incidents
19.2.6	other insurances required by Laws and by local practice	All insurances as applicable, to the extent of execution of the project, under Federal and Provincial laws of Islamic Republic of Pakistan
21.1	time for appointment of the DAAB	Within 28 days from the Commencement Date.  In case the Accepted Contract Amount is lesser than PKR one (01) billion, appointment of the DAAB shall be made when Dispute arises between the Parties.



Sub-Clause	Data to be Given	Data
21.1	the DAAB shall comprise	ill <i>Not applicable as the project cost is less than 1 billion</i>
21.1	List of proposed members of DAAB - proposed by Employer  - proposed by Contractor	<i>Not applicable as the project cost is less than 1 billion</i>
21.2	Appointing entity (official) for DAAB members	As per list of PEC approved arbitrators.
21.6	Rules of Arbitration	PEC Rules of Conciliation and Arbitration or Pakistan Arbitration Act of 1940, if the former is inactive.  The place of Arbitration shall be in the Employer's country: <i>Pakistan</i>

**Summary of Sections of the Works**

<b>Section Name/Description of parts of the Works that shall be designated a Section for the purposes of the Contract (Sub-Clause 1.1.73)</b>	<b>Value: Percentage* of Accepted Contract Amount (Sub-Clause 14.9)</b>	<b>Time for Completion (Sub-Clause 1.1.84)</b>	<b>Delay Damages (Sub-Clause 8.8)</b>
A			
B			
C			

\* These percentages shall also be applied to each half of the Retention Money under Sub-Clause 14.9.

<b>Section Name/Description (Sub-Clause 1.1.73)</b>	<b>Time for Completion (Sub-Clause 1.1.84)</b>	<b>Incentives for Early Completion (Sub-Clause 8.14)</b>
A		
B		
C		



## Particular Conditions Part

### B - Special Provisions

- 1.1 Definitions** 1.1.76  
“Specification” Following is added at the end:  
 “and consists of two parts i.e.,  
 i) “Part A - Specific Provisions”; and  
 ii) “Part B - Technical Provisions”.”
- 1.2 Interpretation** “and” is deleted from the end of sub-paragraph (i) and added at the end of sub-paragraph (j).  
 Sub-paragraph (k) is added:  
 “(k) The word “tender” is synonymous with “bid” the word tenderer with “bidder”, the words “tender documents” with “bidding documents” and “Schedule of Prices” with “Bill of Quantities”, as applicable.”
- 1.5 Priority of Documents** The documents listed at (a) through (k) of this Sub-Clause are deleted and substituted with the following:  
 (a) the Contract Agreement;  
 (b) the Letter of Acceptance;  
 (c) the Letter of Bid;  
 (d) the Particular Conditions Part A - Contract Data;  
 (e) the Particular Conditions Part B - Special Provisions;  
 (f) the General Conditions;  
 (g) the Specification Part A - Specific Provisions;  
 (h) the Specification Part B - Technical Provisions;  
 (i) the Drawings;  
 (j) the completed Schedules to Bid including Bill of Quantities;  
 (k) the JV Undertaking (if the Contractor is a JV); and  
 (l) any other documents forming part of the Contract.  
 The addenda/corrigenda, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.
- 1.6 Contract Agreement** In the last line of the 1<sup>st</sup> paragraph the text “shall be borne by the Employer” is substituted by “shall be reimbursed by the Employer to the Contractor”.
- 3.1 The Engineer** In sub-paragraph (a) the text “as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)” are added after the words “professional engineer”.
- 3.2 Engineer’s Duties and Authority** The Engineer shall obtain the consent in writing of the Employer before taking action under the following Sub-Clauses of these Conditions:  
 (a) Consenting to the subcontracting of any part of the Works





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

*\*[insert Sub-Clause number (not Sub-Clause 3.7 [Agreement or Determination])]*

Any such requirement shall not be applied to any action by the Engineer under Sub-Clause 3.7 [Agreement or Determination], as stated in Sub-Clause 3.2 [Engineer’s Duties and Authority] of the General Conditions.

Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Employer, with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Employer.

Following is added after the words “the Employer’s consent is required” in 4<sup>th</sup> paragraph:

“stating that the Employer’s consent has been obtained for that specified authority”



**4.2 Performance Security**

**4.2.1 Contractor’s Obligations**

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

The Performance Security shall be, at the option of the Contractor, issued in the prescribed form included in the Bidding Documents, by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the Contract Data and rated by PACRA/VIS of rating as provided in Table below:

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

In case of Joint Venture, the Performance Security shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.

Following paragraph is added at the end of this Sub-Clause:

“The amount of Performance Security shall be reduced to 50% following issue of the Taking-Over Certificate for the whole of the Works under Clause 10 of Conditions of Contract.”

**4.3 Contractor’s Representative**

In second paragraph the text “professional engineer as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976) (having temporary licence in case of foreign engineer under Section 12 of the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)” are added after the words “qualified, experienced”.

In the 3<sup>rd</sup> paragraph the words “28 days” are substituted by “14 days”. In 2<sup>nd</sup> line of 4<sup>th</sup> paragraph the text “or appoint a replacement” is substituted by “except appointment of a suitable temporary replacement is deployed at the Site”

**4.4 Contractor’s Documents**

**4.4.2 As-Built Records**

First paragraph is deleted and the text in the last paragraph is substituted with the following:

“The Contractor shall furnish to the Engineer 6 copies, one reproducible and one electronic copy (provided the Engineer has made available to the Contractor editable form of the Drawings) of all Drawings amended to conform to the Works asbuilt. In case the Engineer does not make available to the Contractor editable form of the Drawings, the Contractor shall furnish to the Engineer as-built data for incorporation in the Drawings. Upon receipt of PDF versions of the as-built drawings prepared by the Engineer, the Contractor shall furnish to the Engineer 6 copies and one reproducible of these Drawings.

The price of such Drawings shall be deemed to be included in the Contract Price.”



Following Sub-Clause is added:

#### 4.4.4 Shop Drawings

The Contractor shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this Contract as per provision of relevant Sub-Clause of the Contract.

Review and approval by the Engineer shall not exceed 21 days and be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and the Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

#### **4.8 Health and Safety Obligations**

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

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

#### **4.20 Progress Reports**

At the end of sub-paragraph (g) the word "and" is deleted and at the end of sub-paragraph (h) the full stop (.) is replaced with ";", and the following new sub-paragraphs are added as:

- (i) planned programme for the execution of the Works for next 56 days to enable the Engineer to determine its programme of inspection and testing;
- (j) monthly summary of daily job record indicating weather conditions, deployment of Contractor's Equipment, labour employment, local material procurement and material import, if any; and
- (k) salient contractual and project information.

#### **5.1 Subcontractors**

Add the following text at the end of paragraph (ii):

"under Schedule to Bid"

The following is added at the end of the last paragraph of Sub-Clause 5.1:

"All subcontracts relating to the Works shall include provisions which entitle the Employer to require the subcontract to be assigned to the Employer under sub-paragraph (a) of Sub-Clause 15.2.3 [*After Termination*]."

The Contractor shall give reasonable opportunity to contractors from Islamic Republic of Pakistan for subcontracts for the Works, and endeavour to employ such contractors as Subcontractors."

#### **5.2 Nominated Subcontractors**

##### 5.2.2 Objection to Nomination

In sub-paragraph (c), "and" is deleted from the end of

(i); "." at the end of (ii) is replaced with: ", and".



The following is then added as (iii):

“(iii) be paid only if and when the Contractor has received from the Employer payments for sums due under the Subcontract referred to under Sub-Clause 5.2.3 [*Payment to nominated Subcontractors*].”

**6.1 Engagement of Staff and Labour**

The following paragraph is added at the end of the Sub-Clause:

“The Contractor shall, to the extent practicable and reasonable, employ staff (not less than 50%) and labour (not less than 85%) with appropriate qualifications and experience from sources within the Islamic Republic of Pakistan.”

**6.7 Health and Safety of Personnel**

The existing text is substituted with the following:

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

**6.8 Contractor’s Superintendence**

Insert at the end of sub-paragraph (a) of this Sub-Clause:

"or, if not, the Contractor shall make competent interpreters available during all working hours, in a number sufficient for those persons to properly perform their superintendence duties"

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

“The Contractor’s authorized representative and his other engineers working at site shall possess valid registration with the Pakistan Engineering Council.

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

**6.12 Key Personnel**

The following is inserted at the end of the last paragraph:

“If any of the Key Personnel are not fluent in this language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.”

The following Sub-Clauses 6.13 to 6.26 are added at the end of Sub-Clause 6.12:

**6.13 Foreign Personnel**

The Contractor may bring in to the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required



residence visas and work permits. The Employer will, if requested by the Contractor, use all reasonable endeavours in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national, or government permission required for bringing in the Contractor's personnel.

The Contractor shall be responsible for the return of these personnel to the place where they were recruited or to their domicile. In the event of the death in the Country of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

- 6.14 Supply of Foodstuffs** The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.
- 6.15 Supply of Water** The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.
- 6.16 Measures against Insect and Pest Nuisance** The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.
- 6.17 Alcoholic Liquor or Drugs** The Contractor shall not, otherwise than in accordance with the Laws of the Country, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal thereto by Contractor's Personnel.
- 6.18 Arms and Ammunition** The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.
- 6.19 Festivals and Religious Customs** The Contractor shall respect the Country's recognized festivals, days of rest and religious or other customs.
- 6.20 Funeral Arrangements** The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the Works.
- 6.21 Forced Labour** The Contractor, including its Subcontractors, shall not employ or engage forced labour which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labour, such as indentured labour, bonded labour or similar labour-contracting arrangements.
- 6.22 Child Labour** The Contractor, including its Subcontractors, shall not employ or engage child labour in accordance with relevant law(s) in force in Islamic Republic of Pakistan.



- 6.23 Employment Records of Workers** The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [*Contractor's Records*].
- 6.24 Workers' Organizations** The Contractor shall comply with the relevant labour laws of Pakistan which recognize workers' rights to form and to join workers' organizations/Trade Union of their choosing and to bargain collectively without interference.
- 6.25 Non-Discrimination and Equal Opportunity** The Contractor shall not make decisions relating to the employment or treatment of Contractor's Personnel on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices.
- Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Contractor shall provide protection and assistance as necessary to ensure nondiscrimination and equal opportunity, including for specific groups such as women, persons with disabilities, migrant workers and children (of working age in accordance with Sub-Clause 6.22).
- 6.26 Epidemics** In the event of any out-break of illness of epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government or the local medical or sanitary authorities for the purpose of overcoming the same.
- 7.7 Ownership of Plant and Materials** The following is added before the first paragraph:  
 "Except as otherwise provided in the Contract,"  
 The following is added at the end of the Sub-Clause:  
 "No Plant and/or Materials that is the property of the Employer shall be removed from the Site. If it becomes necessary to:  
 (i) remove any item of such Plant from the Site for the purposes of repair, the Contractor shall give a Notice, with reasons, to the Engineer requesting consent to remove the defective or damaged item off the Site. This Notice shall clearly identify the item of defective or damaged Plant, and shall give details of: the defect or damage to be repaired; the place to which defective or damaged item of Plant is to be taken for repair; the transportation to be used (and insurance cover for such transportation); the proposed

inspections and testing off the Site; and the planned duration required before the repaired item of Plant shall be returned to the Site. The Contractor shall also provide any further details that the Employer may reasonably require; or

- (ii) replace any item(s) of such Plant and/or Materials, the Contractor shall give a Notice, with reasons, to the Engineer clearly identifying the item(s) of Plant and/or Materials to be replaced, and giving details of the due date of delivery to the Site of the replacement item(s).

Where any item of Plant and/or Materials has become the property of the Employer under this Sub-Clause before it has been delivered to the Site, the Contractor shall ensure that such an item is not moved except for its delivery to the Site.

The Contractor shall indemnify and hold the Employer harmless against and from the consequences of any defect in title or encumbrance or charge (except any reasonable restriction arising from the intellectual property rights of the manufacturer or producer) on any item of Plant and/or Materials that has become the property of the Employer under this Sub-Clause."

The following Sub-Clause 7.9 is added after Sub Clause 7.8:

- |  |  |
|--|--|
| <b>7.9 Use of Pakistani Materials and Services</b> | 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. |
| <b>8.1 Commencement of Works</b>                   | The following is added before the first paragraph:<br>"After signing of the Contract Agreement by both Parties," and thereafter the word "The" is replaced with the word "the".  |
| <b>8.5 Extension of Time for Completion</b>        | The following is added after paragraph (c):<br>"for last five years".  |

The following Sub-Clause 8.14 is added after Sub-Clause 8.13:

- |   |   |
|---|---|
| <b>8.14 Incentives For Early Completion</b> | <p>If Contract Data does not state applicability of incentives for early completion, this Sub-Clause shall not apply.</p> <p>The Contractor shall be entitled subject to Sub-Clause 20.2 [<i>Claims for Payment and/or EOT</i>] to bonus payment if the Works and/or each Section is completed earlier than the Time for Completion for the Works or Section (as the case may be). The amount of bonus for early completion of the Works and/or each Section shall be upto a limit and at a rate to 50% of the relevant limit and rate of delay damages prescribed in Contract Data and shall be paid for every day which shall elapse between the relevant Date of Completion of the Works or Section and the relevant Time for Completion.</p> <p>For the purposes of calculating any bonus payment, the applicable Time for Completion stated in the Contract Data is fixed and no adjustments of this time by reason of granting an</p> |
|---|---|



EOT will be allowed.

The following Sub-Clause 11.12 is added after Sub-Clause 11.11:

- 11.12 Supervisory Assistance During DNP** If provided under the Schedule of Prices, the Contractor shall provide supervisory assistance to the Employer during the DNP for the Works. Such supervisory assistance shall be as described in the Specification for the purpose of supporting the Employer's operation and maintenance of the Plant for the period specified in the Schedule of Prices after the Date of Completion.
- 12.2 Method of Measurement** The following paragraph is added at the end of the Sub-Clause:  
 “Summary of measured quantity for payment shall be delineated item-wise under four heads namely; “Schedule of Prices Quantity”, “Quantity Executed To-date”, “Quantity Certified Previously” and “Net Quantity Executed under this Certificate”.
- 12.3 Valuation of the Works** The following text is added at the end of fifth paragraph of the Sub-Clause:  
 “Sum of overhead charges and profit for sub-paragraph (a) shall be Twenty Five percent (25%)”.
- 13.4 Provisional Sums** The following paragraph is inserted as the penultimate paragraph:  
 “The Provisional Sum shall be used to cover the Employer’s share of the DAAB members’ fees and expenses, in accordance with Clause 21. No prior instruction of the Engineer shall be required with respect to the work of the DAAB. The Contractor shall submit the DAAB members’ invoices and the satisfactory evidence of having paid 100% of such invoices as part of the substantiation of those Statements submitted under Sub-Clause 14.3.
- 13.6 Adjustments for Changes in Laws** The following paragraphs are added at the end of the Sub- Clause:  
 “Notwithstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the Table of Adjustment Data in accordance with the provisions of Sub-Clause 13.7 [*Adjustments for Changes in Cost*].”
- 14.1 The Contract Price** The following is added at the end of the Sub-Clause:  
 “Notwithstanding the provisions of subparagraph (b), Contractor's Equipment, including essential spare parts, imported by the Contractor for the sole purpose of executing the Contract shall be temporarily exempt from the payment of import duties and taxes upon initial importation, provided the Contractor shall post with the customs authorities at the port of entry an approved re-export bond or bank guarantee, valid until the Time for Completion plus six months, in an amount equal to the full import duties and taxes which would be payable on the



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

***[The Employer may change or delete this Sub-Clause as per Project requirements]***

## 14.2 Advance Payment

### 14.2.1 Advance Payment Guarantee

The entity issuing the Advance Payment Guarantee and its form shall be as under:

The Advance Payment Guarantee shall be in the form of Guarantee issued by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the Contract Data and rated by PACRA/VIS of rating as provided in Table below:

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

In case of Joint Venture, the Advance Payment Guarantee(s) shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.

## 14.6 Issue of IPC

### 14.6.1 The IPC

In the first line of the 1<sup>st</sup> paragraph the words “28 days” are substituted by “14 days”.

## 14.7 Payment

The words “or through crossed cheque in favour of the Contractor or JV partners. The Payment to JV partners shall be made at the request of the Joint Ventures in the ratio of their



- shares specified by them” are added at the end of the Sub-Clause.
- 14.8 Delayed Payment** In the first paragraph, third line, the words “compounded monthly” are deleted.
- The text of 2nd paragraph is deleted and substituted with the following:
- “The Employer shall pay to the Contractor compensation at the rate stated in the Contract Data.”
- 15.2 Termination for Contractor’s Default** 15.2.1 Notice
- Following text is added at the end of sub-paragraph (h) of this Sub-Clause:
- “For the purposes of this Contract, corrupt and fraudulent practices have been defined in Public Procurement Rules 2004.”
- 15.2.3 After Termination
- The word “and” at the end of sub-paragraph (ii) of paragraph (b) is deleted the following paragraph is added after sub-paragraph (iii):
- “(iv) all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [*Employer-Supplied Materials and Employer's Equipment*], and”
- 15.4 Payment after Termination** The following text is added at the end of this Sub-Clause:
- “The Employer shall be entitled to sell any of the Contractor’s Equipment, Temporary Works and unused materials and apply the proceeds of sale towards payment of any debt due from the Contractor to the Employer under this Clause including any outstanding payments to the Subcontractors.
- 16.2 Termination by Contractor** 16.2.1 Notice
- The sub-paragraph (j) is deleted in its entirety.
- At the end of sub-paragraph (i) “; or” is replaced with “.” and at the end of sub-paragraph (h) “;” is replaced with “; or”.
- In sub-paragraph (f) “84 days” are replaced with “180 days” and text “for reasons not attributable to the Contractor” is added at the end.
- 16.3 Contractor’s Obligations After Termination** Sub-paragraph (c) is deleted and replaced with:
- “(c) deliver to the Engineer all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [*Employer-Supplied Materials and Employer's Equipment*]; and
- (d) remove all other Goods from the Site, except as necessary for safety, and leave the Site.”
- 17.1 Responsibility for Care of the Works** After the two instances of “Goods” in the last paragraph, the words “Employer-Supplied Materials and/or Employer's Equipment” are added.



The following Sub-Clause 17.7 is added after Sub-Clause 17.6:

- 17.7 Use of Employer’s Accommodation/ Facilities** The Contractor shall take full responsibility for the care of the items of the Employer’s facilities and/or accommodation, if any, as detailed in the Specification, from the date of use and/or occupation by the Contractor until the date on which such use and/or occupation is re-vested in the Employer.
- If any loss or damage happens to any of the above items during a time while the Contractor is responsible for its care, arising from any cause other than a cause for which the Employer is responsible or liable, the Contractor shall promptly rectify the loss or damage at the Contractor’s risk and cost.
- 18.1 Exceptional Events** The words “or disorder” are replaced with “disorder or sabotage” in sub-paragraph (c) of the Clause.
- 18.4 Consequences of an Exceptional Event** The following is added at the end of sub-paragraph (b) after deleting the“.”:
- “, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Exceptional Events, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 19.2 [*Insurance to be provided by the Contractor*].”
- In sub-paragraph (c), the words “and necessarily” are added after the words “was reasonably”.
- 18.5 Optional Termination** Following text is added at the end of first paragraph:
- 19.1 General Requirements** “The Contractor shall immediately after the date of the Letter of Acceptance submit the draft of insurance policies for the Employer’s consent.”
- Following text is added at the end of third paragraph:
- “The Contractor shall, within the respective periods stated in the Contract Data submit to the Engineer and the Employer a) evidence that the insurances described in this Clause have been effected, and b) copies of policies of the insurances described in Sub-Clauses 19.2.1, 19.2.4 and 19.2.5.”
- 19.2.5 Injury to employees
- 19.2 Insurance to be provided by the Contractor** The words “sickness, disease” are deleted in the third line of first paragraph.
- The following Sub-Clause is added after Sub-Clause 19.2.6:
- 19.2.7 Insurance Company
- “The Contractor shall be obliged to place all insurances described in this Clause with insurers listed in the Contract Data and rated by PACRA/VIS of rating as provided in Table below:

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

**21.6 Arbitration** The word “international” is deleted in the sixth line of first paragraph. The text of sub-paragraph (a) is substituted with the following:

“the Dispute shall be finally settled under the Rules of Arbitration, specified in the Contract Data;”

The following Clauses are added after Clause 21

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

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

**24 Integrity Part** If it is found and established at any stage that the Contractor or any of his Subcontractors, agents or servants have violated or involved in violation of the Integrity Pact signed by the Contractor then the Employer shall be entitled to :

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

The termination under sub-paragraph (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clause 15.1 to 15.4 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the Employer under sub-paragraph (a) and (c) of this Sub-Clause.



# **SPECIFICATIONS**

## **PART A - SPECIFIC PROVISIONS**



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**[Note:**

*The above Sections of Specifications, are for guidance only, and shall be indicated appropriate to the work/project.*

*The Employer may adopt the above format. However, if any section is not applicable, it may be mentioned as “Not Used”. ]*



# **SPECIFICATIONS**

## **PART B - TECHNICAL PROVISIONS**



## GENERAL

### Introduction

#### 1. 1.1 General

The General Conditions of Contract & Special Conditions of Contract shall form an integral part of these General Requirements.

The Constructor shall notify all sub-Constructor of the provisions of the Conditions of Contract and the General Requirement of this Specification.

The arrangement and divisions of these Specifications is not to be construed as establishing the limits of responsibility of sub-trades.

The Constructor is responsible for delineating the scope of Sub-Contracts and for coordinating all the Works.

All works shall be carried out in accordance with the following specifications, supplemented by detailed specifications contained in the following sections. Any inconsistencies or ambiguities shall be brought to the notice of the Engineer for his clarification/decision. Decision and direction of the Engineer, in all such cases shall be final and binding.

The Constructor shall make himself thoroughly familiar with the site conditions, foresee any and all problems likely to be encountered during execution of the works, and shall be able and ready to solve them effectively. Proposals for solutions to the problems shall be submitted to the Consultant / Engineer In Charge/Engineer In-charge for approval before proceeding with the work.

The Tender Drawings, Design Criteria and Specifications are to be read in conjunction and shall be mutually explanatory. In case of any conflict the order of preference shall be as under duly followed by the Special and General Conditions of Contract in Volume I of Tender & Contract documents.

- i) Specifications
- ii) Tender Drawings
- iii) Bill of Quantities

#### 2. Scope of Work

The scope of work comprises “*Establishment of Permanent campus of Lasbela University of Agriculture Water & Marine Sciences (LUDWMS), Uthal at Wudh, Lasbela (PKG04)*” as per drawings and specification as defined hereunder and as specified in subsequent sections of tender documents. The Constructor shall perform all relevant engineering, procurement, installation, construction and execution, coordination with other services, testing and commissioning including all documentation, drawings, calculations and supply of manuals as required completing the work. The Constructor shall also be responsible to supply and install all other items not specifically mentioned in these documents but which are necessary for proper completion of the works included in the scope of this Contract.

#### 3. Applicable Codes and Standards

In the absence of other Standards being required by the Contract Documents, all work and materials shall meet the requirement of the Uniform Building Code of the United States, and/or applicable American Society for Testing Materials (ASTM) American Association of State Highway and Transportation Officials (AASHTO) Specifications and the latest American Concrete Institute Manual of Concrete Practice and American.

Institute of Steel Construction (AISC) Manual relevant to the Works except in cases where the Pakistan Building Code requires a higher standard. In such cases the Pakistani Code shall govern,

where the abbreviations listed below are used, it refers to the latest code, standards, or publications of the following organizations:

AASHTO	American Association of State Highway and Transportation Officials.
ACI	American Concrete Institute
AISC	American Institute of Steel Construction
ANSI	American National Standards Institute ASA
American Standard Association	
ASCE	American Society of Civil Engineers
ASTM	American Society for Testing and Material
AWS	American Welding Society
BSI	British Standards Institute
ICAO	International Civil Aviation Organization
BSICP	British Standard Institute Code of
PCA	Practice Portland cement Association
PSI	Pakistan Standard Institute
UBC	Uniform Building Code

Should the Constructor, at any time and for any specific reasons, wish to deviate from the above standards or desires to use materials or equipment other than those provided for by the above standards, then he shall state the exact nature of the change giving the reasons for making the change and shall submit complete specifications of the materials and descriptions of the equipment for the Engineer's approval, whose decisions shall be conclusive and binding upon the Constructor.

#### **4. Codes, Standards, Certificates**

The Constructor shall supply and have at his site office:

Copies of all latest editions of codes and standards referred to in these specifications by number, or equivalent codes and standards approved by the Engineer.

Catalogues and published, recommendations from manufacturers supplying products and materials for the project.

The Constructor shall provide manufacturer's or supplier's certificates to the Engineer for all products and materials which must meet the requirements of a specific code or standard as stated in these Specifications.

#### **5. Units of Measurements**

The British System of Units (FPS) shall be used throughout this Project.

#### **6. Manufacturer's Recommendations**

Installation of manufactured items shall be in accordance with procedures recommended by the manufacturer or as approved by the Engineer.

#### **7. Existing Condition at Site**

Drawings and information pertaining to existing project conditions are furnished for reference.

Neither the Employer nor the Engineer warrants the adequacy or correctness of these.

## **8. Protection and Precautions**

The Constructor and his sub-Constructor shall afford all necessary protection to existing structures and will be required to make good at his own expense any damage done to such structures through his own or his representatives or sub Constructor' fault and negligence.

The Constructor and his sub-Constructor shall afford all necessary protection to existing roads in the area. He will clear and make good at his own expense any damage to or debris on these roads through his own fault and negligence. He must at all-time ensure the free and normal flow of traffic and shall not cause obstruction to the traffic system. The Constructor and his sub-Constructor shall provide and maintain necessary protection and precautionary measures such as warning signs, warning lamps and barricades etc. to prevent accidents.

The Constructor shall promptly correct all such damage to original condition at no additional expense to the Employer.

The Constructor shall cooperate with trades performing work under other Contracts as necessary for completion.

## **9. Setting Out of Work**

Establish all boundaries, markers, leveling stakes and benchmarks on the site to adequately set out all work. Verify all data and their relationship to establish and Engineer's survey control points and public benchmarks and report discrepancies to the Engineer.

Permanently mark the necessary controls for distance and elevation sufficient to serve throughout the Contract and protect these control points adequately against damage and displacement.

Project setting out is for the use of all trades; each trade is responsible for the layout of its own work.

## **10. Sequence of Construction**

The Constructor shall submit his proposal for approval of the Engineer the sequence of Construction, prior to starting the works. The works shall be executed as per approved sequence of construction.

## **11. Lines and Levels**

Survey control points will be established by' the Engineer. The Constructor shall be responsible for verifying these and shall be responsible for all requirements necessary for the execution of any work to the locations, lines, and levels specified or shown on the drawings, subject to such modifications as the Engineer may require as work progresses.

## **12. Partial Possession**

Whenever, as determined by the Employer any portion of work performed by the Constructor is in a condition suitable for use, the Employer may take possession of or use such portion.

Such use by the Employer shall in no instance be construed as constituting final acceptance, and shall neither relieve the Constructor of any of his responsibilities under the Contract, nor acts a waiver by the Employer of any of the conditions thereof, provided that the Constructor shall not be liable for the cost of repairs, re-work, or renewals which may be required due to ordinary wear and tear resulting from such use. However, if such use increases the cost or delays to the completion of remaining portions of work, the Constructor will be entitled to an equitable adjustment.

If, as a result of the Constructor's failure to comply with the provision of the Contract, such use proves to be unsatisfactory, the Consultant / Engineer In Charge/E will have the right to continue

such use until such portion of the work can, without injury to the Consultant / Engineer In Charge, be taken out of service for correction of defects, errors, omissions, or replacement of unsatisfactory materials or equipment, as necessary for such work to comply with the Contract; provided that the period of such operation or pending completion of appropriate remedial action shall not exceed twelve months unless otherwise mutually agreed upon in writing between the parties.

### **13. Existing Services**

The Constructor shall search for, find locate and protect any visible/un visible wiring, cable, duct, pipe work, etc., within or immediately adjoining the site area.

The Constructor shall take full responsibly for safety of existing service lines, utilities and utility structures uncovered or encountered during excavation, dismantling and construction operations.

The Constructor shall take full responsibility for damaging any such service lines, utility/utility structure and any cost and/or expense that arises or issues from any such damage shall be borne directly by himself. Should any damage to any such service occur the Constructor shall forthwith take remedial action, initiate safety precautions, install temporary services and carryout repair all at his own cost and expense and inform the Engineer and notify all relevant authorities.

Existing utilities which are to remain in service or after the works are to be determined by the Constructor. If any existing service lines, utilities and utility structures which are to remain in service are uncovered or encountered during these operations, they shall be safeguarded, protected from damage, and supported.

### **14. Plant and Equipment**

The Constructor shall submit a detailed list of plant and equipment, which he shall undertake to bring to the site to carry out the work. The list shall satisfy the Engineer as to type, size and quantity. The list shall include for each piece of equipment the type, manufacturer, model, identification number and year of manufacture. The Constructor shall provide on the site of the work at his cost all of the equipment listed and all subsequent equipment required for approval of the detailed program of work and such equipment which may be directed by the Engineer. The Constructor shall supply all plant and equipment necessary for the construction of each phase of the work and it must be on site, inspected and approved by the Engineer.

### **15. Construction Area and Access**

The Constructor shall confine his operations to the areas that are actually required for the Works and shall fence the area accordingly Arrangements for access roads, storage areas and routes for haulage of materials are to be made by the Constructor at his own cost, subject to the approval of the Engineer.

### **16. Storage & Handling Facilities**

The Employer will provide the Constructor possible space within or nearby the area of site of works for the storage of plant, equipment and materials and for Constructor's temporary office, during the currency of the Contract. In case the adjacent area as required by the Constructor is not available within the Project boundary for storage of plant, equipment and machines then the Constructor shall arrange at his own expense possible space for storage of plant, equipment and machines at his own cost and expense. On no account shall such temporary installations conflict/ interfere with any of the permanent installations, services and any operational function of Employer. The handling and storage of all plants, equipment and materials at site shall be the sole responsibility of the Constructor and at no risk and cost to the Employer.

The Constructor shall protect all material against corrosion, mechanical damage or deterioration

during storage and erection on site. The protection methods shall be to the approval of the Engineer.

## **17. Test Laboratory and Testing**

### **17.1 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 and quality control programmer to be established by the Contractor and approved by the Engineer. The Engineer may however, require certain test to be perform in any other laboratory designated by him.

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

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 test perform on Site.

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

### **17.2 Files Laboratory Equipment Requirements.**

The laboratory shall be equipped with new unused and latest equipment to perform test as per technical specifications and General Conditions of contract. Additional equipment/materials shall be supplied by the Contractors as and when required by the Engineer to perform any specified any test, at no additional cost of the employer.

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

### **17.3 Method of Payment.**

The cost of providing running and maintenance of the laboratory, equipment, materials and staff, testing charges of material supplied 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 Contactor and no separate claim for payment on this account shall be entertained by the Engineer.

In case the Contractors does not provide the specified equipment and testing facility, cost of testing plus 100% overheads shall be recovered from his bill.

## **18 Construction & Checking At Site**

The Constructor shall submit to the Engineer in due time for approval and discussion, his proposals and plans as to the method and procedure to be adopted for the temporary and permanent works involved.

The submitting to these suggestions and arrangements, and the approval thereof by the Engineer shall not relieve the Constructor of his responsibilities and duties under the Contract.

The carrying out of all work included In the Contract is to be supervised by a sufficient number of qualified representatives of the Constructor and full facilities and assistance are to be afforded by the

Constructor for the Engineer or his Representative to check & examine the execution of the work.

The Engineer reserves the right to inspect all parts of the works but may at his discretion waive inspection on certain items. This shall in no way absolve the Constructor from his responsibilities. This particularly applies to the checking of materials, the accurate setting out of foundations, and to the leveling, setting and aligning of the various parts, and to the proper fitting and adjustment of manufactured and finished materials and fixtures in position.

If the Engineer or his Representative find that the work progress is slow in such a way that the works or parts thereof will not be completed in the time specified, then he shall order the Constructor to work overtime or in shifts and the Constructor shall comply. These arrangements will be free of all financial encumbrances and at no additional costs to the Employer.

In the event of night work, the Constructor shall provide sufficient and adequate lighting to the satisfaction of the Engineer or his Representative and shall supply the necessary manpower for satisfactory continuation of the work after normal hours.

## **19 Bar Bending Schedule**

Bar bending (reinforcement bars) schedule of all drawings shall be prepared by the Constructor and submitted to Consultant / Engineer In Charges' Head Office for approval. The approved bar bending scheduled shall be followed for cutting of steel and preparation of bills.

## **20 Drawings**

20.1 Tender Drawings: The drawings listed in the General Conditions of contract, Volume I and provided in Volume III are referred to as Tender Drawings and these show the scope of work to be performed by the Constructor. Tender Drawings shall not be used as a basis for fabrication or construction but may be used as a basis for placing preliminary order for materials, subject to corrections based on the future issue of Drawings as provided under sub-clause 19.2 Drawings Issued for Construction. Tender Drawings are subject to be modified and supplemented by additional detail by the Engineer.

20.2 Drawings Issued for Construction: After Award of Contract, Tender Drawings shall be replaced by Drawings Issued for Construction including supplementary Specifications as may be necessary. Such drawings and specifications shall be construed to be included in the expression Custody of Drawings under Sub-Clause 6.1 of General Conditions of Contract Part I. Drawings Issued for Construction may include some of the Tender Drawings with or without modification and additional drawings as required to express design intent in greater detail. Such drawings may also be modified from time to time. Drawings Issued for Construction will be the drawings from which shop, fabrication, erection installation, concrete placing, formwork, or other construction detail drawings shall be prepared by the Constructor. The work shall be executed in conformity with Drawings Issued for Construction. The Constructor shall prepare a schedule of Drawings Issued for Construction of various parts of the Works based on Construction program approved by the Engineer for issuance to the Constructor from time to time.

20.3 Study of Drawings: The Constructor shall study all Drawings Issued for Construction carefully as soon as practicable after receipt thereof, and any errors discovered shall promptly be brought to the knowledge of the Engineer for his instructions.

20.4 Copies of Drawing: Drawings will be issued to the Constructor free of charge as follows:

Drawings Issued for Construction - Two copies as specified in sub-clause 6.1 Custody of Drawings, of General Conditions of Contract - Part I Volume I.

20.5 Drawings to be furnished by the Constructor:

## **Shop Drawings**

All shop drawings required for the work including all kinds of fabrication, field erection, installation, placement and layout drawings shall be furnished by the Constructor for approval of the Engineer. If additional detail drawings are necessary to complete any part of the work, such including reinforcing steel, drawings shall be prepared by the Constructor and submitted to the Engineer. for approval. All drawings shall be complete and shall be submitted in due time and in logical order to facilitate proper coordination.

### **a. Lift and placement Drawings.**

At least thirty calendar. Days prior to starting construction of any concrete lift or other placement, the Constructor shall submit lift or other placement drawings to the Engineer for approval. Lift or other placement drawings shall be submitted for each lift or other placement of concrete to be placed. These drawings shall be to such scale as to clearly show all recesses, openings, and embedded parts, including embedded structural steel, mechanical and electrical items, reinforcement placement in each lift in sufficient detail for proper execution of the work.

### **b. Construction Plant Layout Drawings.**

Three prints of drawings, showing the layout of construction plant and equipment the Constructor proposes to use on the work, shall be submitted by the Constructor for review to the Engineer. The drawings shall show the locations of the principal components of the construction plant, offices, storage areas and yards which the Constructor proposes to construct or use at the site of the work and elsewhere. The drawings shall also show the unloading facilities for materials and equipment at the work site.

### **c. Submissions and Approvals:**

Except as otherwise specified, three copies of each drawing for approval or review shall be furnished to the Consultant / Engineer In Charge. Within thirty calendar days after receipt the Consultant / Engineer In Charge will send one copy to the Constructor marked Approved, Approved/Except as Noted, or Returned for Correction. The notations approved and approved/except as Noted will authorize the Constructor to proceed with the fabrication of the materials and equipment covered by such drawings subject to the corrections, if any, indicated thereon. Drawings returned for correction will be resubmitted for approval in the same manner as for new drawings. Every revision made during the life of the Contract shall be shown by number, date and subject in a revision block.

Upon receipt of prints which have been Approved or Approved Except as Noted, the Constructor shall furnish three prints plus one reproducible of each drawing to the Engineer. If revisions are made after a drawing has been approved, the Constructor shall furnish 3 additional prints and one reproducible subsequent to each approved revision.

d. Shop drawings to be prepared by a Sub-Constructor shall be submitted in the same manner as (a) & (b) above but they will be submitted through the Constructor.

e. All of the applicable requirements of this Clause with reference to drawings to be prepared by the Constructor, including Sub Constructor, shall apply equally to catalogue cuts, illustrations, printed specifications, or other data submitted for approval.

f. Any work done on Constructor's drawings shall be at the Constructor's risk. The Engineer will have the right to request any additional details and to require the Constructor to make any changes in the drawings which are necessary to conform to the provisions and intent of design and specifications without additional cost to the Employer. The approval of the drawings by the Consultant / Engineer In Charge shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory. Approval by the Engineer of the

Constructor's drawings shall not be held to relieve the Constructor of his obligation to meet all the requirements of the Specifications or of his responsibility for the correctness of the Constructor's drawings or of his responsibility for correct fit of assembled parts in final position or of his responsibility for the adequacy of method of construction.

## **21 As-Built Drawings**

The Constructor shall, at all times, keep on the site one copy of all drawings and approved samples together with copies of all building, mechanical, electrical and public safety codes and relevant standards applicable to the works. All such material shall be made available to the Engineer.

In addition, the Constructor shall, at all times, keep on site a separate set of prints on which shall be noted neatly, accurately and promptly as the work progresses all significant changes between the work shown on the drawings and that which is actually constructed. The sub-Constructor shall each keep on site, at all times, a separate set of prints of the drawings showing their parts of the work on which shall be noted, neatly accurately and promptly as work progresses the exact physical location and configuration of the works as actually installed, including any revisions or deviation from the Contract Documents.

At the completion of the works, the Constructor shall at his expense, supply to the Engineer six copies and one reproducible copy of all drawings along with CD containing all as built drawings amended to comply with the work "As Built". The Constructor shall provide in the same format as the original drawings, any additional drawing required to record the work.

## **22 Restoration and Cleaning**

The Constructor shall do regular cleaning and clean away all rubbish and excess materials that may accumulate from time to time on completion and before handing over. Upon completion of the works he shall obliterate all signs of temporary construction facilities such as work areas, structures, foundations of temporary structures, stock piles of excess or waste materials, or any other vestiges of construction, unless otherwise directed by the Consultant / Engineer In Charge/Engineer In charge. The works and site shall be left in a clean and satisfactory state for immediate use and occupation. Care shall be taken not to use any cleaning materials which may cause damage to the surface to be cleaned.

## **23 Protection of the Works**

The Constructor shall whenever necessary cover up and protect the works from Weather damage by his own or other workmen performing subsequent operation. He shall provide all necessary dust sheets, barriers and guard rails and clear away the same at completion.

The Constructor shall take all proper steps for protection at all places on or about the works which may be dangerous to his workmen or any other person or to traffic. The Constructor shall provide and maintain warning signs, warning lamps and barricades as necessary.

## **24 Product Data**

Manufacturer's standard schematic drawings shall be modified or deleted to indicate only information which is applicable to the project. Such standard information shall be supplemented to provide all additional applicable information.

Manufacturer's catalogue sheets, brochures, diagrams, schedules, performance charts, illustrations and other standard descriptive literature shall be clearly marked to identify pertinent materials products or models. Dimensions and required clearances shall be indicated. Shop performance characteristics and capacities shall be noted.

## **25 Samples**

**25.2** The Constructor shall furnish for approval of the Engineer with reasonable Promptness all samples as directed by the Consultant / Engineer In Charge or specifically called for in these Specifications. The Consultant / Engineer In Charge shall check and approve such samples with reasonable promptness for compliance with the requirements of Contract Documents. All work shall be in accordance with approved samples.

25.3 Duplicate final approved samples, in addition to any required for the Constructor's use, shall be furnished to the Consultant / Engineer In Charge, one for office use and the other for the Site.

25.4 Samples shall be furnished so as not to delay fabrication, allowing the Consultant / Engineer In Charge/Engineer In charge reasonable time for consideration of the sample' submitted.

25.5 Each sample shall be properly labeled with the name and quality of the material, manufacturers name, name of the project, the Constructor's name and the date of submission, and the Specifications Article number to which the sample refers.

25.6 The manufacturer's installation directions shall be provided with each sample. The Constructor shall pay all transportation costs and deliver samples to the Engineer's office & Consultant / Engineer In Charges' Head office, Site or testing laboratory as directed by the Engineer. Samples will not be returned unless return is requested at the time of submission; all packing and transportation costs for the return of samples shall be paid by the Constructor.

25.7 Samples shall be of adequate size and number to permit proper evaluation of the material by the Consultant / Engineer In Charge/Engineer In charge. Where variations in color, texture, dimensions or other characteristics are to be expected, the Constructor shall submit samples showing the maximum range of variation. Materials exceeding the range of variation of the approved samples shall not be used on the Work.

25.8 If both Shop Drawings and samples are required for the same item, the Consultant / Engineer In Charge/Engineer In charge may require both to be submitted before approving either, 25.7 No acceptance or approval of any Shop Drawings or sample, or any indication or directions by the Engineer on any Shop Drawings shall constitute an authorization for any increase in the Contract Sum.

In the event that the site cannot be connected to a local electricity network or where the available power is insufficient the Constructor has to make his own provision and maintain such installation.

A temporary lighting system shall be furnished, installed and maintained by the Constructor as required to satisfy the minimum requirements for safety and security. The temporary lighting system shall afford adequate general illumination to all building areas. Adequate outdoor lighting shall be provided to illuminate staging trenches and the like to the satisfaction of the Engineer In charge and general illumination throughout adequate for watchmen and emergency personnel. .

Temporary equipment and wiring for power and lighting shall be in accordance with the applicable provisions of governing codes. Temporary wiring shall be maintained in a safe manner and utilized so as not to constitute a hazard to persons or property.

When the permanent electrical power and lighting systems are in an operating condition, they may be used for temporary power and lighting for construction purposes provided that the Constructor obtains the written approval of the Client and assumes full responsibility for the entire power and lighting system and pays all charges/costs for operation and maintenance of the system mutually agreed between the Employer and the Constructor.

Approval, license etc. if required under local laws will be obtained by the Constructor on his own responsibility and cost.

At completion of construction work, or at such time as the Constructor makes use of permanent electrical equipment and devices, temporary electricity services shall be removed by the Constructor as his own expense.

### **25.6.1 Waste Disposal**

The Constructor shall make such temporary provisions as may be required in order to dispose of any chemicals, fuels, 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, effluents, garbage, oil, grease, chemicals and the like shall be in areas specified by the concerned local authority proposed by the Constructor and subject to the approval of the Engineer. If any waste material is dumped in unauthorized areas the Constructor 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 In charge and replaced with suitable fill material compacted and finished with topsoil all at the expense of the Constructor.

### **25.6.2 Fire Protection**

The Constructor shall provide and maintain adequate fire protection in the form of barrels of water with buckets, fire bucket tanks, fire extinguishers, or other effective means ready for instant use, distributed around the project and in and about temporary inflammable structures during construction of the works.

Gasoline and other flammable liquids shall be stored in and dispensed from safety containers approved by the Engineer In charge and storage shall not be within building.

Torch-cutting and welding operations performed by the Constructor shall have the approval of the Engineer In charge before such work is started and a chemical extinguisher is to be available at the location where such work is in progress.

The Constructor shall follow the instructions and specifications of the relevant department and or other local authority.

### **25.6.3 Telephone**

The Constructor shall immediately after receiving the Letter of Acceptance take the necessary steps to obtain mobile and land line telephone on site. He shall be responsible for all installation and connection charges and periodic mobile and landline telephone accounts. The telephone shall be made available to the Engineer for the due performance of his duties at all times and free of charges during construction and defects liability period.

## **26 Construction Schedule**

A Construction schedule shall be maintained in accordance with the provisions of the General Conditions of Contract.

The schedule shall be accompanied with sufficient data and information including all necessary particulars of constructional plant, equipment machinery, temporary Works, arrival of plant, equipment at site and their installation, method of operation, work forces employed, etc., for an activities of the Works.

Should the Consultant / Engineer In Charge / Engineer consider any alteration or addition in the program and time schedule, the Constructor shall conform thereto without any cost to the Employer.

Whenever necessary and wherever the progress of the actual work shows departure, the program and time schedule shall be undated and submitted to the Consultant / Engineer In Charge/Engineer In charge for his approval.

## **27 Night Work**

When work is done at night the Constructor 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 prosecution hereof.

## **28 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.

## **29 Co-Ordination with Other Constructor**

The Constructor shall make all necessary coordination with other Constructor and shall make sure that all embedding components such as pipes, steel bases etc. (as required for completion of electrical works) are properly, accurately and timely installed. The Constructor shall inform the other Constructor the schedule of any construction activity well in advance giving him sufficient time to finish his part of job, before any compaction/concreting etc. The Constructor shall get the signature of the authorized representation of the other Constructor before carrying out any construction activity.

If any part of electrical work is damaged or has to be dismantled or redone due to negligence omissions / incorrect position of the embedding etc. on part of the Constructor, all such losses/expensed shall be borne by the Constructor.

All expenses incurred for the above works including coordination are deemed to be covered in his tendered cost and no separate/extra payment shall be paid against such item.

## **30 Submission Requirements**

30.2 Schedule submission at least sixty days before the dates when reviewed submittals will be needed.

30.3 Submit Shop Drawings as per provision given in Sub-Clause 20.5 (a) and number of copies of Product Data which the Constructor requires for distribution plus four copies which will be retained by the Engineer.

30.4 Submit three samples unless otherwise specified.

30.5 Accompany submittals with transmittal letter, in duplicate, containing: Date Project title and number Constructor's name and address The number of each Shop Drawing, Product Data and the Sample submitted. Notification of deviations from Contract Documents. Other pertinent data.

## **31 Resubmission Requirements Shop Drawings:**

Revise initial drawings as required and resubmit as specified for initial submittal. Indicate on drawings any changes which have been made by the Engineer. Product Data and Samples: Submit new data and samples as required for initial submittal.

## **32 Survey Instruments**

All the instruments, equipment, stakes and other material necessary to perform all work shall be provided by the Constructor. The survey work shall be carried out by competent staff consistent with the current practices. The Constructor shall maintain on site surveying instruments in perfect working conditions to enable the Engineer to check lines and level at all times.

Survey instruments and equipment shall include but not limit to the following:

Electronic Total Station

Laser Meter  
Precision Level invert Staff  
Automatic Levels  
Power level  
Compass, steel tape, ranging poles

### **33 Weekly Progress Report and Photographs**

33.2 During the continuance of the Contract, the Constructor shall submit weekly progress reports on forms as approved by the Consultant / Engineer In Charge. Such weekly reports shall show the actual progress completed as of date of the report plotted against the schedule as given by the Constructor at the start of work and shall be broken down so as to indicate status of all activities associated - with mobilization design, material procurement, manufacture, surveys works, tests with regard to the agreed contract program.

33.3 The Employer and the Engineer reserve the right to coordinate the schedules of this Constructor and other Constructor working at the Site, and to adjust and/or change any and all such schedules as required during the course of construction in order to achieve a coordinated project in harmony with the Employer's completion date.

33.4 Commencing after the first week of construction, and continuing every week until completion, the Constructor shall take and submit photographs to the Engineer's Representative, to show progress of his work and completion of each structure or major feature.

### **34 Constructor to Notify Delays Etc.**

Any delay which will affect the completion of Works shall be detailed by the Constructor who shall state the action he is taking for effective completion of the Contract program.

The Constructor shall submit a report in respect of the various sections of the Works, the equipment in use or held in readiness, 'a return of labor and supervisory staff, and details of any matters arising which may generally affect the progress of the work.

The Constructor shall give a summary of the detailed progress report giving the position with regard to the agreed Contract program.

The progress reports shall be set out in a format to the approval of the Consultant / Engineer In Charge, and forwarded promptly so that on receipt the information contained therein is not more than 21 days out of date.

If during execution of the Contract, the Employer considers the progress position of any section of the work to be unsatisfactory, or for any other reason relating to the Contract, he will be at liberty to convene a meeting and the Constructor's Representatives are to attend such meeting.

The Constructor's Site Office shall prepare and submit 6 copies of a weekly progress report to the Employer and Engineer's Site Office. This report shall summarize site activities and record and details where difficulties in maintaining the agreed program are being experienced or are likely to cause subsequent delay.

The Constructor's Site Office shall also prepare and submit to the Engineer's Site Office 2 copies of Daily Activity Report summarizing the main activities to be undertaken each day, noting special activities such a tests, alignment checks, etc. The Constructor shall be responsible for expediting the delivery of all material and equipment to be provided by him and his sub Constructor.

### **35 Photographs**

As soon as work commences on Site, the Constructor shall provide photographs (at least 10 to 12) of the works from positions to be selected by the Engineer. Each photographic print shall not be less than 297 mm x 210 mm and shall bear a printed description, a serial number and the date when taken.

The negatives of all photographs shall be held at the Constructor's Site Office, numbered and handed over to the Employer at the completion of the Contract.

### **36 Facilities for the Engineer**

#### **36.1 Site Office**

The Constructor shall construct, provide and maintain Consultant / Engineer In Charge's Site Office of about 60 - 80 square meter covered area as per the specifications. A preliminary layout of the site office shall be provided by the Consultant / Engineer In Charge. After receiving letter of award the Constructor will submit to the Engineer detailed shop drawings for review and approval. Specifications for construction of site office shall be the same as provided in Volume-II of the tender documents.

The Consultant / Engineer In Charge's site office shall be furnished and equipped with new and unused furniture, equipment, air-conditioners, electrical fittings etc., as per the list given below:

1	Wooden office table with drawers and side racks	4 (Four) No.
2	Office Chairs	4 (Four) No.
3	Wooden sitting visitors chairs with arms (standard size)	10 (Ten) No.
4	Steel filing cabinet (standard size)	4 (Four) No.
5	Split type (1-1/2 ton)	2 (Two) No.
6	Electric Kettle	01 (One) No.
7	Laptop Core i9, 9th generation 8gb ram, 500Gb Hard Disk (Samsung, Dell or Hp).	03 (Three) No.
8	Internet DSL Facility (ZONG 4G / EVO or equivalent)	1 (One) No.
9	Black and white photocopier (Printer A3)	02 (Two) No.
10	Conference Table (3.0 meter x 1.2 meter) & chairs 12Nos.	1 (One) set.

Mobile or Landline Telephone with connections 1 (One) No. Each Engineer. The Constructor shall furnish Rupees 1500/= per month to the Engineer for the Mobile Cards.

If any equipment, furniture and installations become unserviceable for any reason whatsoever the Constructor shall promptly replace the same as and when directed by the Consultant / Engineer In Charge. The Consultant / Engineer In Charge's Site office with fittings, fixtures and all other equipment/accessories shall be maintained and operated for the entire duration of construction period as well as for the duration of subsequent defects liability period.

The Site Office including fittings, fixtures, furniture, furnishing and all other equipment/accessories shall be the property of the Employer on completion of the Contract.

**37. Payment of Work**

No payment shall be made for the works involved within the scope of this section of specification. The cost thereof shall be deemed to have been included in the quoted unit rate of other items of the Bills of Quantities.

# HEALTH AND SAFETY MEASURES

## 1. Start with safety training

All workers must hold a current white card before they commence work on-site. Site-specific induction training should also be completed by each worker, to point out any high risk areas and provide instructions for emergency management.

## 2. Minimize and manage risk

Due to the nature of construction work, it's impossible to eliminate all safety risks. However, many common safety issues can be avoided by conducting regular safety audits and having procedures in place to report, assess and address potential risks.

## 3. Site security

Restricted site access should not only be put in place to simply protect equipment from damage or theft. Security in and outside of work hours is integral to protect pedestrians from potential construction hazards. This includes supervision or authorized site visitors.

Strict security and safety protocols will also protect Constructor from liability and negligence in the case of a safety incident or security breach.

## 4. Safe work method assessment

A safe work method statement (SWMS) must be prepared for all high risk construction projects, before work commences. The SWMS should outline the scope of work involved, any potential safety issues, and how risks will be prevented and managed. By law, construction work must not commence until SWMS standards are met.

## 5. Use clear signage throughout the site

The site SWMS should be clearly displayed at the construction site, so that all safety protocols are readily available - including a 24 hour emergency contact number and a map or directions to the site office. Visible signage should also indicate site amenities (such as toilets), entry and exit points, and first aid or emergency fire equipment.

## 6. Entry and exit points

Separate entry and exit points should be established for heavy machinery/vehicle access, to strengthen pedestrian safety at high traffic points.

## 7. Compliant chemical storage

Chemicals need to be stored very carefully to minimize fires, explosions, asphyxiation, chemical injury and pollution on worksites. Use high quality, compliant outdoor storage solutions such as explosive

storage cabinets to segregate chemicals and reduce spillage.

## **8. Environmental conditions**

Extreme weather conditions can cause serious safety hazards. Your on-site emergency plan should provide clear guidelines for workers who need to stop work in the event of natural disaster, severe environmental conditions or other emergency circumstances.

## **9. First aid**

For the construction industry, it's best practice to provide one first aid officer per 25 workers. First aid kits and equipment must be placed in an easily accessible area on site.

## **10. Provide personal protective (PPS) equipment**

In many situations an employer is obligated to provide PPS such as high vis vests, safety goggles and safety harnesses to construction site workers. To find what PPS you are required to provide for a specific project, contact Safe Work Australia.

## **11. Dropped objects**

It is your responsibility to secure objects onsite and minimize the risk of them falling. This video explains the risks and how they can be avoided by putting preventative safety measures in place.

Construction safety doesn't end once the project is completed, and your workers have gone home. All parties involved in the construction process have a responsibility in ensuring that the right equipment and quality materials are used, so that safety risks are avoided long into the future.

## **9. Payment of Work**

No payment shall be made for the works involved within the scope of this section of specification. The cost thereof shall be deemed to have been included in the quoted unit rate of other items of the Bills of Quantities.

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**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE  
SCIENCES UTHAL BALOCHISTAN WADH CAMPUS  
PACKAGE 04  
(STAFF RESIDENCES & EXTERNAL DEVELOPMENT  
WORKS PHASE-2)**

**BILL OF QUANTITY**

**Consultant:**



**M/S. ATIF NAZAR (PVT.) LTD. (ANPL)  
Joint Venture  
M/S. KASIB ASSOCIATES (KA)**



**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE SCIENCES UTHAL  
BALOCHISTAN WADH CAMPUS  
PACKAGE 04  
(STAFF RESIDENCES & EXTERNAL  
DEVELOPMENT WORKS PHASE-2)  
BILL OF QUANTITY**

S. NO.	DESCRIPTION	AMOUNT
<b>1</b>	<b>RESIDENCES FOR STAFF</b>	
	Schedule Items	5,188,259
	Add _____ on PWD Schedule Rates 2022 for Schedule Items= Rs.	
	<b>TOTAL (A)</b>	
	Total Non-Schedule Items	
	<b>TOTAL (B)</b>	
	<b>TOTAL - (A+B)</b>	
	<b>TOTAL FOR 24 RESIDENCES (TOTAL x 24)</b>	
<b>2</b>	<b>PLUMBING WORKS</b>	
<b>i</b>	<b>EXTERNAL WATER SUPPLY</b>	
	Schedule Items	2,886,756
	Add _____ on PWD Schedule Rates 2022 for Schedule Items= Rs.	
	<b>TOTAL (A)</b>	
	Non-Schedule Items	
	<b>TOTAL (B)</b>	
<b>ii</b>	<b>EXTERNAL SEWERAGE</b>	
	Schedule Items	5,741,395
	Add _____ on PWD Schedule Rates 2022 for Schedule Items= Rs.	
	<b>TOTAL (C)</b>	
	Non-Schedule Items	
	<b>TOTAL (D)</b>	
<b>iii</b>	<b>EXTERNAL DRAINAGE</b>	
	Schedule Items	53,523,787
	Add _____ on PWD Schedule Rates 2022 for Schedule Items= Rs.	
	<b>TOTAL (E)</b>	
	<b>GRAND TOTAL - 2 (A+B+C+D+E)</b>	
<b>3</b>	<b>ENGINEERS FACILITY</b>	
	<b>GRAND TOTAL (1+2+3)</b>	

Contractor's Sign & Stamp



**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE SCIENCES  
BALOCHISTAN WADH CAMPUS  
PACKAGE 04  
(RESIDENCES FOR STAFF)  
BILL OF QUANTITY  
SUMMARY**

S.NO:	DESCRIPTION	Engineer's Estimate
		AMOUNT
<b>1</b>	<b>STRUCTURE WORKS - CIVIL WORKS</b>	
a	Civil Works (Schedule Items)	936,460
b	Civil Works (Non-Schedule Items)	
	<b>TOTAL - 1</b>	
<b>2</b>	<b>CIVIL ARCHITECTURE WORKS</b>	
a	Civil Works (Schedule Items)	3,402,627
b	Civil Works (Non-Schedule Items)	
	<b>TOTAL - 2</b>	
<b>3</b>	<b>ELECTRICAL WORKS</b>	
a	Civil Works (Schedule Items)	176,251
b	Civil Works (Non-Schedule Items)	
<b>C</b>	<b>EXTRA LOW VOLTAGE (ELV) WORKS</b>	
i	Civil Works (Schedule Items)	7,443
ii	Civil Works (Non-Schedule Items)	
	<b>TOTAL - 3</b>	
<b>4</b>	<b>PLUMBING WORKS</b>	
a	Civil Works (Schedule Items)	665,478
b	Civil Works (Non-Schedule Items)	
	<b>TOTAL - 4</b>	
<b>A</b>	<b>TOTAL - Civil Works (Schedule Items)</b>	<b>5,188,259</b>
<b>B</b>	<b>TOTAL - Civil Works (Non-Schedule Items)</b>	



**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE SCIENCES UTHAL**  
**BALOCHISTAN WADH CAMPUS**  
**PACKAGE 04**  
**BILL OF QUANTITY**  
**SUMMARY**

**STRUCTURE WORKS - CIVIL WORKS**

S.No	Gov. of Balochistan CSR-2018 Schedule item # /Page #	Description	Qty.	Unit	Engineer's Estimate	
					Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7=4 x 6
	A	<b>BUILDING - CIVIL WORKS</b>				
		<b>PART - A (SCHEDULE ITEMS)</b>				
1		<b>EARTH WORKS</b>				
		<b>All items under this head (Structural) to be carried out as per</b>				
1.1	3-54-1/ P-34	Clearing jungle by cutting, removing all shrubs, trees and taking out entire roots and filling the hollows with earth, dressing, consolidating and watering the filling including stacking the serviceable material and disposal of unserviceable material lead upto 300 meters.	2600	Sq.ft	4.88	12,675
1.2	3-21-b-iv/ P-28	Excavation in foundation of buildings and bridges including layout, dressing, refilling around structures with excavated earth, watering & ramming lead upto 100 ft. (30m) & lift upto 5 ft.				
		Shingle or gravel	4295	Cu.ft.	12.81	55,030
	21-74 (b)/ P-191	Extra for additional lift above 5 ft. to 10 ft. (1.5 m to 3 m.) and lead upto 100 ft. (30 m.)	775	Cu.ft.	15.31	11,867
1.3	3-16-A & B/ P-27	Filling, watering and compacting earth under floors in layers not exceeding 8 inches in thickness.				
	16-A	With surplus earth from foundation etc. <b>(For backfilling)</b>	-	Cu.ft.	4.75	-
	16-B	With new earth excavated from outside, lead upto 100 ft. (30m) and lift upto 5 ft. (1.5m) including royalty of Clay. <b>(For new earth from outside sources)</b>	3760	Cu.ft.	8.38	31,490
1.4	21-14b/ P-183	Providing and laying stone soling 6" thick with approved stone to required grade and camber including packing with spawls, chips, watering, compacting with road roller and with all lead and lift.(including royalty of Quarry).	550	Cu.ft.	75.50	41,525
2		<b>SUB STRUCTURE WORKS</b>				
		<b>All items under this head (Structural) to be carried out as per</b>				
2.1		Providing and laying in situ cement concrete using approved coarse sand and crushed aggregate having maximum size upto 1-1/2" (38mm) and down gauge in foundation including formwork and its removal, compaction and curing.				
	5-11(c)/P-51	i) Below foundations, pile cap, plinth beams, situ, sub-flooring & others etc. <b>(Ratio 1 : 4 : 8)</b>	660	Cu.ft.	255.75	168,795
	5-11(b)/P-51	ii) Cast in situ & where required etc. <b>(Ratio 1 : 3 : 6)</b>	330	Cu.ft.	280.63	92,606
2.2	3-69-1 / P-41	Spraying approved anti-termite chemical mixed with water in the ratio of 1:40	4440	Sq.ft	12.19	54,113
2.3	5-35-1 / P-58	Providing and applying two coats of hot bitumen (maxphalt 80/100 or equivalent) using 1.22 kg. per sq.metre for first coat and 1.0 kg. per Sq.m. for 2nd coat including cleaning the surface, heating and spraying the asphalt on concrete faces.	4180	Sq.ft	28.44	118,869
3		<b>SUPER STRUCTURE WORKS</b>				
		<b>All items under this head (Structural) to be carried out as per</b>				
3.1	5-16-a/ P-63	Providing and laying 1:2:4 cement concrete using approved coarse sand and crushed aggregate 3/4" (19mm) and down gauge in beams, lintels and cantilevers of required shape or section including formwork and its removal compacting and curing in				
		<b>Ground Floor</b>				
	5-16-a/ P-53	i) Lintels beams / nibs / sills / bands /around opening and Fins etc.	75	Cu.ft.	397.94	29,845
		<b>EXTERNAL WORKS</b>				
		<b>PART - A (SCHEDULE ITEMS)</b>				
1		<b>EARTH WORKS</b>				
		<b>All items under this head (Structural) to be carried out as per</b>				

S.No	Gov. of Balochistan CSR-2018	Description	Qty.	Unit	Engineer's Estimate	
	Schedule item # /Page #				Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7=4 x 6
1.2	3-21-b-iv/ P-28	layout, dressing, refilling around structures with excavated earth, watering & ramming lead upto 100 ft. (30m) & lift upto 5 ft.				
		Shingle or gravel	4595	Cu.ft.	12.81	58,873
	21-74 (b)/ P-191	Extra for additional lift above 5 ft. to 10 ft. (1.5 m to 3 m.) and lead upto 100 ft. (30 m.)	855.00	Cu.ft.	15.31	13,092
1.3	3-16-A & B/ P-27	Filling, watering and compacting earth under floors in layers not exceeding 8 inches in thickness.				
2		<b>SUB STRUCTURE WORKS</b>				
		<b>All items under this head (Structural) to be carried out as per</b>				
2.1		Providing and laying in situ cement concrete using approved coarse sand and crushed aggregate having maximum size upto 1-1/2" (38mm) and down gauge in foundation including formwork and its removal, compaction and curing.				
	5-11(c)/P-51	i) Below foundations, pile cap, plinth beams, situ, sub-flooring & others etc. <b>(Ratio 1 : 4 : 8)</b>	280	Cu.ft.	255.75	71,610
	5-11(b)/P-51	ii) Cast in situ & where required etc. <b>(Ratio 1 : 3 : 6)</b>	330	Cu.ft.	280.63	92,606
2.3	5-35-1 / P-58	Providing and applying two coats of hot bitumen (maxphalt 80/100 or equivalent) using 1.22 kg. per sq.metre for first coat and 1.0 kg. per Sq.m. for 2nd coat including cleaning the surface, heating and spraying the asphalt on concrete faces.	2935	Sq.ft	28.44	83,464
		<b>TOTAL CIVIL WORKS (SCHEDULE ITEMS)</b>				<b>936,460</b>
		<b>PART - B (NON-SCHEDULE ITEMS)</b>				
		<b>SUB STRUCTURE WORKS</b>				
		<b>All items under this head (Structural) to be carried out as per</b>				
2.4		Providing and laying RCC cement concrete with approved concrete admixture / retarder mix according to supplier instruction) having preliminary cylindrical crushing strength as per drawings / specification at 28 days, using OPC or SRC cement and approved quality of 1 inch (25 mm) and down gauge size graded crush stone aggregate with approved quality sand including fixing & removing approved quality of fair face formwork and its removal, all operations of mechanically vibrating, leveling, consolidating and curing but excluding the cost of steel reinforcement etc. complete in all respects as per the drawing, standard, specifications and as directed by the Engineer.				
		<b>3000 Psi (28 Cylinder Compressive Strength)</b>				
		i) Foundation of any type	505	CFt		
		ii) Plinth Beams	415	CFt		
		iii) Columns / Pedestal upto plinth	220	CFt		
2.5		Providing, supplying, straightening, cutting, bending, fabricating, placing and installing / binding in position etc., straight or curved deformed steel bar reinforcement having minimum yield strength 414 Mpa (60,000 Psi), including cost of G.I binding wire 18SWG, chairs, wastages, precast c.c. spacers and welding where required to be followed ASTM A615 standard. Only those overlaps shall be paid which are according to the approved Bar Bending Schedule / shown on drawings or instructed by the Engineer, all kind of R.C.C. work etc. complete in all respects as per the drawing, standard, specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	4	M.Ton		
		<b>SUPER STRUCTURE WORKS</b>				
		<b>All items under this head (Structural) to be carried out as per</b>				
3.2		Providing and laying RCC cement concrete with approved				
		<b>3000 Psi (28 Cylinder Compressive Strength)</b>				
		<b>Ground Floor</b>				
		i) Columns	280	Cft		

S.No	Gov. of Balochistan CSR-2018	Description	Qty.	Unit	Engineer's Estimate	
	Schedule item # /Page #				Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7=4 x 6
		iii) Beams, Purdi and nibs / projection etc.	480	Cft		
		iv) Slab, including projections etc.	650	Cft		
		vi) OHWT Bottom slab/Top Slab	80	Cft		
		vii) OHWT Walls	70	Cft		
3.3		Providing, supplying, straightening, cutting, bending, fabricating, placing and installing / binding in position etc., straight or curved deformed steel bar reinforcement having minimum yield strength 414 Mpa (60,000 Psi), including cost of G.I binding wire 18SWG, chairs, wastages, precast c.c. spacers and welding where required to be followed ASTM A615 standard. Only those overlaps shall be paid which are according to the approved Bar Bending Schedule / shown on drawings or instructed by the Engineer, all kind of R.C.C. work etc. complete in all respects as per the drawing, standard, specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>				
		i) Ground Floor	6	M.Ton		
		<b>EXTERNAL WORKS</b>				
		<b>All items under this head (Structural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respect and to the entire satisfaction of the Engineer.</b>				
		<b>SUB STRUCTURE WORKS</b>				
2.4		Providing and laying RCC cement concrete with approved concrete admixture / retarder mix according to supplier instruction) having preliminary cylindrical crushing strength as per drawings / specification at 28 days, using OPC or SRC cement and approved quality of 1 inch (25 mm) and down gauge size graded crush stone aggregate with approved quality sand including fixing & removing approved quality of fair face formwork and its removal, all operations of mechanically vibrating, leveling, consolidating and curing but excluding the cost of steel reinforcement etc. complete in all respects as per the drawing, standard, specifications and as directed by the Engineer.				
		<b>3000 Psi (28 Cylinder Compressive Strength)</b>				
		i) Foundation of any type	560	CFt		
		ii) Plinth Beams	330	CFt		
		iii) Columns / Pedestal upto plinth	140	CFt		
		iv) Columns above Plinth	60	CFt		
2.5		Providing, supplying, straightening, cutting, bending, fabricating, placing and installing / binding in position etc., straight or curved deformed steel bar reinforcement having minimum yield strength 414 Mpa (60,000 Psi), including cost of G.I binding wire 18SWG, chairs, wastages, precast c.c. spacers and welding where required to be followed ASTM A615 standard. Only those overlaps shall be paid which are according to the approved Bar Bending Schedule / shown on drawings or instructed by the Engineer, all kind of R.C.C. work etc. complete in all respects as per the drawing, standard, specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>  Steel Sub & Superstructure	4	M.Ton		
		<b>TOTAL (NON-SCHEDULE ITEMS)</b>				

Contractor's Sign & Stamp

**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE SCIENCES UTHAL  
BALOCHISTAN WADH CAMPUS  
PACKAGE 04  
BILL OF QUANTITY  
SUMMARY**

**CIVIL ARCHITECTURE WORKS**

S.No	Gov. of Balochistan CSR-2018	Description	Qty.	Unit	Engineer's Estimate	
	Schedule item #/Page #				Rate (Rs.)	Amount (Rs.)
		<b>DPC &amp; MASONRY WORKS</b>				
		<b>All Items under this head to be carried out as per specification, drawings, relevant BS/ASTM standards and complete in all respects and entire satisfaction of the Engineer.</b>				
1	8-3a/ P-69	Providing and laying 2" (50mm) thick damp proof course with 1:2:4 cement concrete using Coarse Sand and crushed aggregate 1/2"(13mm) and down gauge mixed with any approved water proofing agent including compacting, curing, formwork and its removal cost of water proofing agent will be paid separately.	263	Sq.ft	49.68	13,066
2	15-14-1/ P-131	Providing and mixing water proofing agent in cement mortar of any description in any floor.	18	Kg	124.74	2,245
3	9-7/ P-75	Providing and laying 1:3:6 cement concrete block masonry using Coarse Sand and Approved crushed aggregate 3/4" (19mm) and down gauge in ground floor super-structure including scaffolding, raking out joints and curing.				
	9-7 a(ii)/ P-75	4" (100 mm) thick solid block masonry with cement sand mortar 1:4				
		G.Floor	540.00	Cu.ft	352.49	190,342
	9-7 b (iv)/ P-76	6" (150 mm) thick solid block masonry with cement sand mortar 1:6				
		G.Floor	1,004.00	Cu.ft	302.13	303,339
4		<b>THERMAL &amp; MOISTURE PROTECTION</b>				
	8-9-a /P-69	Providing a coat of bitumen emulsion at 0.50 kg per sq.m. on walls and floors in ground floor.	1,380	Sqft	29.90	41,265
	13-66-b /P-117	Extruded Polystyrene Rigid board with thickness 38 mm is installed.	1380.00	Sqft	120.76	166,645
	8-20-b	Providing and laying polythene sheet 0.13 mm thick on roof for water proofing laid as per instructions of the Engineer in ground floor.	1380.00	Sqft	33.35	46,016
	14-68 /P-127	Providing and laying 1:2:4 P.C.C roof screeding using crushed stone 3/4" (19mm) including formwork, consolidation, finishing and curing 3 inch (75mm) nominal thick P.C.C. roof screeding.				
	14-68(c+d)	c) 3 inch (75mm) thick	1,380	Sqft	87.28	120,443
	5-43 /P-59	Providing, fabricating and laying mild steel Grade 36 (Plain bar) reinforcement for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or M.S. chairs for binding and holding the reinforcement in position is inclusive upto 15 ft (5m) height.				
		Steel		Tonne		

**CIVIL ARCHITECTURE WORKS**

S.No	Gov. of Balochistan CSR-2018	Description	Qty.	Unit	Engineer's Estimate	
	Schedule item #/Page #				Rate (Rs.)	Amount (Rs.)
5		<b>METAL WORK</b>				
5.1		<b>Door Frame</b>				
	28-40 P-274	Providing and fixing moulded steel door frame of approved profile, manufactured from zinc-coated mild steel sheets 18 gauge made by Shahah Industries or equivalent standard conforming to B.S.S.1245, treated with special primer base paint all round, fitted with six fixing lugs, three steel hinges for fixing door shutters standard lock-strike plate, one sliding holt eye, and three rubber buffers, including cutting holes and making good damages to walls and filling the door frame cavity with lean cement mortar 1:4 as directed by the Engineer Incharge.				
a	28-40, a) P-274	4.5" -5" (113.5 mm -125 mm ) Size	55	Rft	356.47	19,606
b	28-40, b) P-274	8" -10" (200 mm -250 mm ) Size	55	Rft	687.62	37,819
6		<b>Aluminium Windows &amp; Ventilators</b>				
6.2	28-24-1 P-273	Providing and fixing fully glazed single leaf <b>hung/ sliding/ openable aluminium windows, ventilators</b> (Deluxe model-1.6mm) of anodized champagne or approved color of Prime, Chawala, Pakistan Cable or any approved section as approved by Engineer incharge including aluminium fittings, 5 mm local tinted glass, lugs, cutting holes and making good the damages to walls.	115	Sqft	1,138.59	130,938
6.3	28-25-1 P-273	Providing and fixing fully glazed <b>fixed aluminium windows, ventilators</b> (Deluxe model - 1.6mm) of anodized champagne or approved color of Alcop, Pakistan Cable or any approved section as approved by Engineer incharge including aluminium fittings, local tinted glass, lugs, cutting holes and making good the damages to walls.	5	Sqft	1,087.36	5,437
6.4	5-43 /P-59	Providing, fabricating and laying mild steel Grade 36 (Plain bar) reinforcement for all kinds of R.C.C work in foundation, plinth and ground floor including the cost of straightening, removal of rust, cutting, bending, binding, wastage and providing such over-laps as are not shown on the drawings. The cost of binding wire and cement concrete spacer blocks or M.S. chairs for binding and holding the reinforcement in position is inclusive upto 15 ft (5m) height.		Tonne	158,726.32	-
7		<b>DOORS &amp; WINDOWS WORKS</b>				
7.1	16-3 (a) P-140	Providing and fixing First class deodar wood frames of required size for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis (Jafri) work				
		a) Deodar wood	14	Cu.ft	10,514.95	147,209
7.2	16-9 P-142	Providing and fixing First class deodar wood shutters fully glazed with glass of approved quality and approved brass hinges, tower bolts, deodar wood beading and putty packing to glasses as required.				
		b (i) Door Shutter	184	Sq.ft	1,250.24	230,043

**CIVIL ARCHITECTURE WORKS**

S.No	Gov. of Balochistan CSR-2018 Schedule item #/Page #	Description	Qty.	Unit	Engineer's Estimate	
					Rate (Rs.)	Amount (Rs.)
	16-7 (c) P-141	Providing and fixing First class deodar wood shutters fully panelled with same wood and fixed with approved brass hinges and tower bolts.				
		c) 1.5"(38mm) thick fully panelled shutters.	44.00	Sqft	1,534.95	67,538
	16-12 Pg: 144	Providing and fixing 1.5" (38 mm) thick pressed veneered door shutters fully flushed with First class wood veneering on all faces and sides fixed over partial wood cavited core and frame work of not less than 4" (100mm) wide strips all round with approved iron hinges, tower bolts as required.				
		c) Commercial wood	122.00	Sqft	455.63	55,586
7.3	16-66 Pg: 151	Providing and fixing locks with brass or specially supplied screws including Door Closers and Floor Hinges of approved design including cutting wood to required shape.				
	d)	Hyundi Lock	8	Each	2,907.90	23,263
8		<b>FLOOR FINISHES</b>				
8.1a	14-4 P-119	Providing and laying terrazzo/mosaic floor in ground floor over 1' (25mm) thick base of 1:2:4 cement concrete using crushed aggregate 3/4" (19)mm and down grade laid in panels or approved pattern including formwork, curing, cutting, removing and polishing				
	d)	3/4 (19mm) thick terrazzo topping 1:2 (One cement & 2marble chips)-G.Floor	918	Sqft	138.44	127,090
8.2	14-73 P-128	Providing and laying <b>Vitrified/ Porcelain (Imported but not Chinese)</b> tiles in floor with different sizes, Glazed or Matt, local or imported as directed by the Engineer-In-Charge, laid with 6mm thick layer of cement based high polymer modified quick set tile adhesive (water based) with a Base Price= Rs. 1600 per Sq.M. (It may be noted that reduction in the rate shall be made accordingly if the cost of purchase of tile is less than the base price).				
		G.Floor	125	Sq.ft	273.68	34,210
9		<b>WALL FINISHES</b>				
9.1	15-3 P-130	1/2 inch (13mm) thick cement plaster 1:6 using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing.				
		G.Floor	2,902	Sqft	27.74	80,509
9.2	14-50 (a) P-124	Providing and laying terrazzo dado/ skirting 7/8" (22mm) thick comprising 3/8" (9mm) thick topping 1:2 (one grey cement & two marble chips) in ground floor over 1/2" (13mm) thick cement sand mortar base 1:4 with grinding, rubbing, polishing & curing.				
		a) 7/8' (22mm) dado/Skirting				
		G.Floor	90	Sq.ft	110.23	9,920

**CIVIL ARCHITECTURE WORKS**

S.No	Gov. of Balochistan CSR-2018	Description	Qty.	Unit	Engineer's Estimate	
	Schedule item #/Page #				Rate (Rs.)	Amount (Rs.)
9.3	14-74 (a) P-128	Providing and laying Vitrified/ Porcelain tiles (Imported but not Chinese) in dado/skirting on ground floor with different sizes, Glazed or Matt, local or imported as directed by the Engineer-In-Charge, laid with 6mm thick layer of cement based high polymer modified quick set tile adhesive (water based) with a Base Price= Rs. 1600 per Sq.M. (It may be noted that reduction in the rate shall be made accordingly if the cost of purchase of tile is less than the base price).				
		G.Floor	718	Sqft	377.06	270,725
9.4	17-8-1	Painting with ICI/Berger or equivalent plastic emulsion paint of approved shade in two or more coats as per manufacturer's instructions on plastered rendered and/or concrete surface over and including the cost of priming coat, surface preparation, dusting, rubbing down smooth, filling cracks, holes removing blisters and other blisters and other imperfections in ground floor or basement. (@ atleast 1.65 Litre per 10 Sq.m)	2,764	Sqft	43.07	119,032
10		<b>CEILING FINISHES</b>				
10.1	15-1(iii) P-130	1/2 inch (13mm) thick cement plaster 1:4 using Coarse Sand on soffits of ceiling, cantilever slabs, sides and soffits of beams, in basement and ground floor including making edges, corners and curing.	1,084	Sqft	32.67	35,414
10.2	17-67-1/ P-168	Distempering with Berger, ICI or equivalent synthetic polyvinyl emulsion finish of approved shade in two or more coats over and including the cost of priming coat including preparation of surface viz. dusting, sand papering or rubbing with pumice stone, filling cracks or holes, if any, removing blisters or other imperfections at any height and any floor. (@ atleast 2.20 Litre per 10 Sq.m)	1,084	Sqft	22.88	24,805
12		<b>EXTERNAL FINISHES</b>				
12.1	15-4(iii) P130	3/4 inch (19mm) thick cement plaster 1:4 using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing.	2,606	Sqft	37.06	96,572
12.2	15-18-1 Pg: 131	Extra if deep cut grooves of approved size and design are made on plastered surface of any description in any floor	2,531	Sqft	20.18	51,082
12.3	17-69-1 /P-168	Applying weather resistant paint coating such as ICI weather shield, Berger weather coat or equivalent to interior or exterior walls or ceiling including supplying all labour, materials, scaffoldings and removal of debris etc. @ atleast 3.50 litre per 10 Sq.m	2,606	Sqft	42.93	111,876
12.4	15-56 / P138	Providing and Fixing 3/4"(19mm) thick Sand Stone ( <b>Zhob Stone</b> ) on interior and exterior wall and cladding including with cement sand mortar 1:3 complete in all respects.	177	Sq.ft	184.88	32,724
13		<b>EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)</b>				

**CIVIL ARCHITECTURE WORKS**

S.No	Gov. of Balochistan CSR-2018 Schedule item #/Page #	Description	Qty.	Unit	Engineer's Estimate	
					Rate (Rs.)	Amount (Rs.)
13.1	9-7/ P-75	Providing and laying 1:3:6 cement concrete block masonry using Coarse Sand and Approved crushed aggregate 3/4" (19mm) and down gauge in ground floor super-structure including scaffolding, raking out joints and curing.				
	9-7 b (iv)/ P-76	<b>6" (150 mm) thick solid block masonry with cement sand mortar 1:6</b>				
		G.Floor	793	Cu.ft	302.13	239,589
13.2	15-4(iii) / P130	3/4 inch (19mm) thick cement plaster using Coarse Sand on walls and columns in basement, plinth and ground floor including making edges, corners and curing.	3,284	Sq.ft	37.06	121,697
13.3	17-69-1(iii) / P168	Applying weather resistant paint coating such as ICI weather shield, Berger weather coat or equivalent to interior or exterior walls or ceiling including supplying all labour, materials, scaffoldings and removal of debris etc. @ atleast 3.50 litre per 10 Sq.m	3,284	Sq.ft	42.93	140,982
13.4	29-6-1 / P282	Supplying and stacking approved garden soil (sweet earth) free from salts, pebbles and grass roots including all leads and lifts.	434	C.ft	64.80	28,123
13.5	29-7-1 / P282	Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing for grassing including disposal of rubbish within 300 ft. (90m or 3 chains).	434	C.ft	5.00	2,168
13.6	29-2-1 / P282	Supplying and stacking well decayed cowdung manure from approved source including all leads and lifts.	434	C.ft	4.86	2,109
13.7	29-3-1 / P282	Spreading cowdung manure and mixing the same upto a depth of 4" (100mm) in the prepared bed including breaking clods, dressing for grassing including disposal of rubbish upto 300 ft (90 m or 3chains).	434	C.ft	8.37	3,633
	14-31-1 P-122	Providing and laying 1-1/2" (38mm) thick cement tiles floor 16"x16" size with 1/2" (13mm) thick topping in white cement with pigment of required color shade and/or flowered pattern in ground floor over 1" (25mm) thick cement sand mortar 1:2 including setting the tiles with portland cement slurry, jointing and washing the tiles with cement slurry of matching color including grinding, rubbing, polishing & the mortar cost.	1,043	Sq.m	254.88	265,840
	29-12a P-282	Providing and fixing of Grassing by dibbing live Dhakka grass roots 3" (75 mm) apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing (2kg for 1Sq. Ft. area).	480	Sq.m	7.76	3,726
		<b>CIVIL WORKS (SCHEDULE ITEMS)</b>				<b>3,402,627</b>
		<b>PART - B NON SCHEDULE ITEMS</b>				
6		<b>METAL WORK</b>				

**CIVIL ARCHITECTURE WORKS**

S.No	Gov. of Balochistan CSR-2018	Description	Qty.	Unit	Engineer's Estimate	
	Schedule item #/Page #				Rate (Rs.)	Amount (Rs.)
6.1	NSI	Providing, fabricating, welding & fixing in position MS Grill Door / Gate comprising 2" x 3" main tube frame, 1-1/2" x 3" inner vertical tube of approved Swg/thickness with M.S sheet (18-Swg) as shown on drawing with three coat of approved colour matt enamel paint over one coat red oxide primer etc., including required hard ware such as hinges, hold fast, Sliding bolt/ALdrop & china black colour waterproof Shackle Pad lock, heavy duty bearing wheels with track, complete in all respect as per drawing, standard, specifications and direction of the Engineer. The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.	106	Sft		
	NSI	Providing and laying Butterfly wall ties 12" x 8" x 1/8" (300mm x 200mm x 4mmthick) thick, comprising of 1/8" (4mm) dia galvanized iron steel wire ties placed at every third layer/course of masonry 36" center to center spacing horizontally & staggered of approved section and design in cavity wall of any description in any floor at any height.	324	Kg.		
		<b>TOTAL (NON-SCHEDULE ITEMS)</b>				

**Contractor's Sign & Stamp**

**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE SCIENCES UTHAL  
BALOCHISTAN WADH CAMPUS**

**PACKAGE 04  
BILL OF QUANTITY  
SUMMARY**

**ELECTRICAL WORKS**

S.NO.	GOVT.OF BALOCHIST AN CSR2018  Item #/Page#	DESCRIPTION	QTY	UNIT	Engineer's Estimate	
					Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 X 6
		<b>SCHEDULE ITEMS</b>				
a)	Item # 30-2/ P-289	Light circuit concealed/open wiring with length upto 65 ft. (20m) from distribution board to point/switch with 3x2.5 Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables for offices/multi storeyed buildings.				
i	a)	Concealed wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.	5	Point	4,078.59	20,393
b)	Item # 30-3/ P-289	Concealed/open wiring from point to switch with length upto 30 ft. (10m) including any switch to switch wiring with 3x1.5 Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables.				
i	a)	Concealed wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.	45	Point	2,158.90	97,150
c)	Item # 30-4/ P-289	Concealed/open wiring from point to point with length upto 10 ft. (3m) with 3x1.5 Sq.mm PVC insulated single core copper conductor Pakistan Cables, Pioneer, Newage or approved equivalent cables.				
i	a)	Concealed wiring with 3/4" (20 mm) dia. PVC conduit and accessories such as bends, elbows, junction boxes etc.	18	Point	647.68	11,658
d)	Item # 30-87/ P-295	Supply and install 56" (1.42 m) sweep ceiling fan with fan hook and dimmer complete with all accessories.	6	No.	5,244.00	31,464
e)	Item # 30-111/ P-296	Wiring of bell point length upto 50 ft (15m) including supply of bell and bell push, 3x1.5 Sq.mm PVC insulated single core copper conductor cable in concealed PVC 3/4" (20mm) dia. conduit and wiring accessories such as elbows, bends, junction boxes, etc	1	Each	2,889.72	2,890
f)	Item # 30-113/ P-296	Supply and install 10" (250 mm) sweep exhaust fan including plastic louvers.	4	Each	3,174.00	12,696
		<b>CIVIL WORKS (SCHEDULE ITEMS)</b>				<b>176,251</b>
		<b>NON-SCHEDULE ITEMS</b>				
<b>1</b>		<b>CONDUITS &amp; PIPES</b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe, as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		50 mm dia uPVC Pipe (Class-D)	5	Rm.		

S.NO.	GOVT.OF BALOCHIST AN CSR 2018	DESCRIPTION	QTY	UNIT	Engineer's Estimate	
					Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 X 6
b)		Supply and installation of following size uPVC Pipe Class-D / Road Crossing Sleeves Class-D for Power cables. Buried in ground / under floor / under roads as per specification, including excavation for laying of pipe, bricks, warning tape and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Pipe (Class-D)	15	Rm.		
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		
d)		Providing and Construction of Manhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Power & Telecom cables)	1	No.		
<b>2</b>		<b>L.V. DISTRIBUTION BOARDS</b>				
a)		Supply, installation, testing and commissioning of following wall mounting / floor standing, surface type Distribution Board (DB) made with 16 SWG sheet metal, dust protected, vermin proof housing coated with approved color, all required internal cables / wires, having all the necessary switching, energy analyzer etc., protections, as per drawing and specification, complete in all respect.				
i		DB-RS	1	No.		
<b>3</b>		<b>WIRING FOR LIGHTS, FANS &amp; SOCKETS</b>				
a)		Supply, installing, testing and commissioning of wiring for 13A Switch Socket outlet with 2x2.5 sq.mm + 1x2.5 sq.mm as ECC single core copper conductor PVC insulated wires in 25mm dia PVC conduit, surface / recessed in wall, column, ceiling, under floor etc., including with all conduit accessories, as per drawing and specification, complete in all respect.				
i		DB to Socket outlet	4	No.		
ii		Socket outlet to Socket outlet	16	No.		
b)		Supply, installing, testing and commissioning of wiring for 20A DP Switch / Flex outlet (for Water Heater) with 2x4 sq.mm + 1x4 sq.mm as ECC single core copper conductor PVC insulated wires in 25mm dia PVC conduit, surface / recessed in wall, column, ceiling, under floor etc., including with all conduit accessories, as per drawing and specification, complete in all respect.				
i		DB to DP Switch	2	No.		
ii		DP Switch to Flex outlet	2	No.		
c)		Supply, installing, testing and commissioning of wiring for 20A DP Switch (for Split AC) with 2x6 sq.mm + 1x6 sq.mm as ECC single core copper conductor PVC insulated wires in 25mm dia PVC conduit, surface / recessed in wall, column, ceiling, under floor etc., including with all conduit accessories, as per drawing and specification, complete in all respect.				

S.NO.	GOVT.OF BALOCHIST AN CSR 2018	DESCRIPTION	QTY	UNIT	Engineer's Estimate	
	Item #/Page#				Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 X 6
i		DB to DP Switch	4	No.		
<b>4</b>		<b>WIRING ACCESSORIES</b>				
a)		Supply, installation, testing and commissioning of following 10/13/15/20A, One / Two / Three / Four gang type switches, Dimmer Switches, Sockets including 16 SWG Sheet Steel powder coated back boxes with earth terminal, recessed in wall, with all accessories as per drawings and specification, complete in all respects.				
i		One Gang Switch 10A	9	No.		
ii		Two Gang Switch 10A	7	No.		
iii		Two Gang Switch 10A (Weatherproof type)	1	No.		
iv		Three Gang Switch 10A	2	No.		
v		Four Gang Switch 10A	1	No.		
vi		Four Gang Switch 10A (Weatherproof type)	1	No.		
vii		13A, International Switch Socket Outlet	19	No.		
viii		13A, International Switch Socket Outlet (Weatherproof type)	1	No.		
ix		20A, Double Pole Switch with neon indicator	6	No.		
x		20A, Flex Outlet	2	No.		
<b>5</b>		<b>LIGHTING FIXTURES</b>				
a)		Supply, installation, testing and commissioning of following Light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per drawings and specifications, complete in all respects. Lighting fixtures sample must be submitted to consultant for approval. Note: Refer light fixtures drawings for complete light fixtures details.				
i		Ceiling Suspended LED Chandelier Light Fixture with 50W LED lamp	2	No.		
ii		Surface Ceiling mounted LED Downlight Fixture (IP-20) with Aluminum Profile housing and 1x20W LED lamp	15	No.		
iii		Surface Ceiling mounted LED Downlight Fixture (IP-44) with Aluminum Profile housing and 1x10W LED lamp	3	No.		
iv		Surface Ceiling mounted LED Downlight Fixture (IP-54) with Aluminum Profile housing and 1x18W LED lamp	4	No.		
v		Wall / Surface mounted LED Wall Light Fixture (IP-20) with Aluminum housing, Glass cover and 1x20W LED lamp	8	No.		
vi		Wall / Surface mounted LED Wall Light Fixture (IP-54) with Polycarbonate housing and 1x6W LED lamp	18	No.		
vii		Wall mounted LED Mirror Light Fixture (IP-44) with 1x8W LED lamp	3	No.		
		<b>TOTAL (NON-SCHEDULE ITEMS)</b>				

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**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE SCIENCES UTHAL**  
**BALUCHISTAN WADH CAMPUS**  
**PACKAGE 04**  
**BILL OF QUANTITY**  
**SUMMARY**

**EXTRA LOW VOLTAGE (ELV) WORKS**

S.NO.	GOVT.OF BALUCHISTAN CSR 2018	DESCRIPTION	QTY	UNIT	Engineer's Estimate	
	Item #/Page#				Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 X 6
		<b>SCHEDULE ITEMS</b>				
a)	Item # 30-22/ P-291	Description same as in item 30-21 except 1" (25mm) dia PVC conduit.	80	R.M	93.04	7,443
		<b>CIVIL WORKS (SCHEDULE ITEMS)</b>				<b>7,443</b>
		<b>NON-SCHEDULE ITEMS</b>				
<b>1</b>		<b>CONDUITS &amp; PIPES</b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		50 mm dia uPVC Pipe (Class-D)	5	Rm.		
ii		25 mm dia Flexible PVC Conduit	5	Rm.		
b)		Supply and installation of following size uPVC Pipe Class-D for Telecommunication Cable (copper / optic fiber). Buried in ground / under floor / under roads, as per specification, including excavation for laying of pipe, bricks, warning tape and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Pipe (Class-D)	15	Rm.		
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		
<b>2</b>		<b><u>VOICE, DATA COMMUNICATION &amp; CCTV CABLING SYSTEMS (Passive Equipment Only)</u></b>				
		Supply, installation, testing and commissioning of following items for Voice Communication system, as per the single line diagram, drawings and specifications, complete in all respect.				
a)		Supply, installation, testing and commissioning of Single RJ-45, Cat-6 outlet for Voice with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	4	No.		
b)		Supply, laying, termination, tagging, testing and commissioning of CAT 6 - 4 pair cable for Single RJ-45 outlet (for Voice) in already laid 25mm dia PVC conduit concealed / surface from each outlet to TJB, with all necessary accessories, complete in all respect.	45	Rm.		
c)		Supply, installation, testing and commissioning of CAT-6 UTP (RJ-45 to RJ-45) including with all necessary accessories, as per drawing and specification, complete in all respect.				
i		CAT-6 (2m) Long Patch Cord	4	No.		

## EXTRA LOW VOLTAGE (ELV) WORKS

S.NO.	GOVT.OF BALOCHISTA N CSR 2018	DESCRIPTION	QTY	UNIT	Engineer's Estimate	
	Item #/Page#				Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 X 6
d)		Supply, installing, testing and commissioning of following 19" Tag blocks in Telephone Junction Box (TJB) as per drawing and				
i		TJB with 1x10 Pair IDC Block 19" type	1	No.		
e)		Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTDR Testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.	1	Job.		
<b>3</b>		<b><u>CABLE TELEVISION SYSTEM (CATV)</u></b>				
a)		Supply, installation, testing and commissioning of TV outlet face plate with 16 SWG back box, complete in all respects.	4	No.		
b)		Supply and installation of TVJB Splitter Box with 1x6 Way Splitter, complete in all respects.	1	No.		
c)		Supply and installation of CATV RG-06 Co-axial 75 ohms shielded cable in already laid 25mm dia PVC conduit concealed / surface from TVJB box to TV outlet, complete in all respects.	40	Rm.		
		<b>TOTAL (NON-SCHEDULE ITEMS)</b>				

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**PACKAGE 04  
BILL OF QUANTITY  
SUMMARY**

**PLUMBING WORKS**

S.No	Gov. of Baluchistan CSR-2018 Schedule item # /Page#	Description	Qty	Unit	Engineer's Estimate	
					Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
<b>PART - A (SCHEDULE ITEMS)</b>						
<b>WATER SUPPLY:</b>						
1	27-47-a/ Pg.27-246	Providing, laying, cutting, jointing, testing and disinfecting <b>PPRC pipes</b> confirming to ISO 4427, PN-20, complete in all respects with specials and valves etc. including all fittings, connections and jointing material.				
	i	15mm		RFt	29.61	-
	ii	20mm	140	RFt	38.31	5,363
	iii	25mm	40	RFt	60.92	2,437
	iv	32mm	50	RFt	67.93	3,397
	v	40mm	20	RFt	95.55	1,911
	vi	50mm	80	RFt	154.86	12,389
	vi	65mm	0	RFt	265.60	-
2	23-39-a/ Pg.23-202	Providing and fixing superior quality gun-metal peet/gate valve (Class 150) of approved make.				
	a)	<b>Screwed Ends</b>				
	i	1/2" (12mm) dia		Each	452	-
	ii	3/4" (20mm) dia	2	Each	528	1,056
	iii	1" (25mm) dia	1	Each	771	771
	iv	1.25" (30mm) dia	1	Each	909	909
	v	1.5" (40mm) dia	2	Each	1,124	2,248
	vi	2" (50mm) dia	1	Each	1,511	1,511
	vii	2 1/2" (65mm) dia	0	Each	3,536	-
3	27-44-a/ Pg.27-246	Providing and fixing <b>LDPE overhead tank</b> manufactured by Dura or equivalent on top of any floor.				
	a)	1000 Gallons capacity		Each	73,471	-
<b>DRAINAGE WORKS:</b>						
4	25-20/ Pg.25-217	Providing and Installing uPVC pipe IIL, Dadex or equivalent make registered with PSQCA in tubewell bore hole and /or laying, cutting, jointing and testing uPVC pipe lines in trenches.				
	a)	<b>Class B</b>				
	(i)	3" (75mm) inner dia	110	RFt	200.56	22,062
	(ii)	4" (100mm) inner dia	50	RFt	291.58	14,579
		<b>Class D</b>				
	(iii)	6" (150mm) inner dia	200	RFt	712.71	142,543
<b>DRAINAGE SPECIALITIES</b>						
5	23-9/Pg.23-199	Providing and fixing Floor trap of approved self cleaning design with screwed down grating with or without a vent arm with and including making requisite number of holes in walls, plinth and floor for pipe connection and making good with approved material.				
	b)	C.I.Floor Trap 4" dia. inlet and outlet with C.I.grating.	10	Nos	2,243	22,425
<b>MANHOLES</b>						

S.No	Gov. of Baluchistan CSR-2018	Description	Qty	Unit	Engineer's Estimate	
	Schedule item # /Page#				Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
6	25-6-a / Pg.25-214	Providing Manhole Type"C" size 36" x 30" (inside dimensions) x (7.5') deep as per approved design and specifications complete for 4" to 12" dia pipe 7'-6" to 12' depth with 18" dia (inside) concrete cover fixed in 6" thick in R.C.C 1:2:4 Slab with 5lbs steel per cu.ft steel and brick masonry walls set in 1:3 cement sand mortar, 6" thick 1:3:6 cement concrete in foundation, 4" av. thick 1:2:4 cement concrete in benching and 13mm (1/2") thick cement plaster in 1:3 cement sand mortar, to all inner wall surface, channels and benching including providing and making requisite number of main and branch channels but excluding cost of excavated stuff.	4	Nos	51,589	206,356
	3-42-a/Pg.3-31	Excavation in open cutting for sewers and manholes as shown in drawings, dressing to correct sections and dimensions according to templates and levels and removing surface water in all types of soil except rock. (i) The rate includes back filling after laying of sewer, which is payable seperately. (ii) The rate if close/open shuttering & Timberring will be as per item NO. 3-43 & 3-44 where actually used at site.				
	a)	<b>Upto 5ft. (1.5 m) depth</b>				
	iv	Shingle or gravel	2.4	Cu.m	276.92	664.61
	25-2-c / Pg.25-213	Providing and fixing gully trap with 4" (100mm) outlet, complete with 4" (100mm) thick 1:2:4 cement concrete using 3/4" (19mm) crushed aggregate for bed and kerb, 1/2" (13mm) thick cement plaster 1:3, 12" x 12" x 18" deep inside dimension chamber with C.I. grating 6" x 6" cover and frame 12" x 12".				
	c)	Cement concrete gully trap 6" x 6" x 4" with 2" (50mm) thick RCC cover and C.I. frame weighing not less than 4 kg.	4	Each	7,208	28,833
		<b>PLUMBING FIXTURES:</b>				
7	23-1-b-ii / Pg.23-198	Providing and fixing <b>European type glazed earthenware water closet</b> ICL, Boch/Forte or approved equivalent make including cost of inlet pipe, lid cistern kit, stop cock deluxe and other accessories, fitting material such as brackets, PVC down pipe where required, rubber rings/washers, making requisite number of holes in walls, plinth and floor for pipe connection and making good with approved material.				
	b)	W.C.fregate coupled/4006				
	ii	Coloured	3	Nos	14,427.2	43,281.6
	23-20-1	Providing & Fixing approved quality of Bacolite plastic seat with Lid.	3	Nos	723.5	2,170.4
8	23-5/Pg.23-199	Providing and fixing export quality glazed earthen ware <b>wash basin</b> manufactured by ICL Boch/ Karm Cera or equivalent approved make with single hole chromium plated mixer tap 1/2" (15mm), pillar tap delux, stop cocks, C.I. or W.I. bracketes 150mm (6") built into walls 40mm (1.5") dia C.P Brass waste with malleable iron or C.P. brass trap with malleable iron or brass union and making requistes number of hole in walls, plinth and floor for pipe connections and making good with approved material				
	c)	Wash basin 26" (650mm) without pedestal				
	ii	Coloured	3	No	14,697.7	44,093.1

S.No	Gov. of Baluchistan CSR-2018	Description	Qty	Unit	Engineer's Estimate	
	Schedule item # /Page#				Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
	d)	Extra over above for providing and fixing white glazed earthen ware pedestal manufactured by ICL/Karam Cera or approved equivalent make.				
	ii	Coloured	3	No	696.7	2,090
9	23-8-a / Pg.23-199	Providing and fixing <b>stainless steel sink</b> Pakistan made with C.I.or W.I. brackets 6" built in wall, 1.5" (40mm) rubber plug, C.P. brass chain, C.P. brass waste, pillar tap 2 way delux, 1.5" dia malleable iron or C.P brass trap and unions and making requisite number of holes in walls , plinth and floor for pipe connections and making good with approved material.				
	a)	Stainless Steel sink 40" x 20" (1000mm x 500mm)	1	Nos	11,075	11,075
10	23-11-1/ Pg.23-200	Providing & fixing standing <b>shower</b> concealed in wall with approved quality control valves, mixer unit and moveable shower head.	2	Nos	15,594	31,188
11	23-34-a/ Pg.23-201	Providing and fixing superior quality C.P. bib cock of approved make				
	a)	1/2" (12mm) dia	4	No	1,359	5,437
12	23-13/ Pg.23-200	Providing and fixing approved quality chromium plated <b>towel rail</b> with bracket and screws				
	b)	Towel Rail 30" x 24" (750mm x 20mm)	3	No	2,808	8,425
13	23-14-1/ Pg.23-200	Providing and fixing approved quality C.P. brass toilet paper holder Master/Sonex or equivalent make.	3	Nos	1,534	4,602
14	23-29/ Pg.23-201	Providing and fixing Soap Dish				
	b)	Glazed earthen ware	3	Nos	1,375	4,126
15	23-28/ Pg.23-201	Providing and fixing chromium plated bottle trap with union and waste pipe.				
	b)	1.5" (40mm) dia	4	Each	2,795	11,178
16	23-37-1 / Pg.23-202	Providing and fixing 1/2" (12mm) single hole superior quality C.P. mixer of approved make for wash hand basin, sink or shower	6	Each	4,727	28,359
		<b>CIVIL WORKS (SCHEDULE ITEMS)</b>				<b>665,478</b>
<b>PART - B (NON SCHEDULE ITEMS)</b>						
<b>WATER SUPPLY WORKS:</b>						
<b>Plumbing Specialties:</b>						
1		Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
	(i)	25mm dia Air Relief Valve	1	Nos		
<b>Water Tank Connection</b>						
2		Connection for water tank including pipe, valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.				
	(i)	50mm dia Connection to OHWT with accessories.	1	Job		
	(ii)	Medium Duty Cover For RCC water tanks	1	Nos		
<b>Water Filters</b>						
<b>ELECTRIC WATER HEATERS</b>						
3		Providing and fixing of ceiling hung Electric Hot water heater with all accessories like Clamps, isolation valves, Air relief valves as indicated in the drawings, as per specifications and engineers approval				
	(i)	EW H-01 to 04 (Capacity 50 Litre)	0	Nos		
	(ii)	EW H-01 & 02 (Capacity 80 Litre)	0	Nos		
	(iii)	EW H-01 & 02 (Capacity 100 Litre)	2	Nos		

S.No	Gov. of Baluchistan CSR-2018	Description	Qty	Unit	Engineer's Estimate	
	Schedule item # /Page#				Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
	(iv)	EWB-01 (Capacity 150 Litre)	0	Nos		
4		Muslim Shower	3	Nos		
		<b>DRAINAGE WORKS</b>				
1		<b>Soil, Waste, &amp; Vent Pipes</b>				
		Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent & R/w pipes including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval				
	(i)	50mm dia	30	RFt		

**PLUMBING WORKS**

S.No	Gov. of Baluchistan CSR-2018	Description	Qty	Unit	Engineer's Estimate	
	Schedule item # /Page#				Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
2		<b>Drainage Specialities</b>				
3		<b>External Connection</b>				
		Connection to external Sewage network, after obtaining approval from local authorities including the cost of excavation, Piping as specified and shown on the drawing, as per specifications and Engineers approval.	1	Job		
		<b>TOTAL (NON-SCHEDULE ITEMS)</b>				

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**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE SCIENCES UTHAL BALOCHISTAN WADH CAMPUS**  
**BILL OF QUANTITY**  
**COST ESTIMATE**  
**BASED ON PWD SCHEDULE OF RATES 2022**  
**A) EXTERNAL WATER SUPPLY**

ITEM NO.	PWD SCHEDULE 2022 ITEM CODE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		<b>Water Supply Pipe</b>				
1	MR	P.E Pipes (PN 10) 32mm e/d with cutting, jointing and fixing	Rft	1,242		
2	MR	P.E Pipes (PN 10) 63mm e/d with cutting, jointing and fixing	Rft	1,113		
3	MR	P.E Pipes (PN 10) 110mm e/d with cutting, jointing and fixing	Rft	12,038		
4	MR	P.E Pipes (PN 10) 160mm e/d with cutting, jointing and fixing	Rft	2,251		
5	MR	Tee Equal, 4" dia, for HDPE pipe, supply and fixing. with butt fusion fitting	Each	8		
6	MR	Tee Equal, 6" dia, for PE pipe, supply and fixing. with butt fusion fitting	Each	4		
7	MR	Reducing Coupler/Socket 4 x 1 in dia, for PE pipe, supply and fixing.	Each	50		
8	MR	Reducing Coupler/Socket 4 x 2 in dia, for PE pipe, supply and fixing.	Each	44		
9	MR	Reducing Coupler/Socket 6 x 4 in dia, for PE pipe, supply and fixing.	Each	5		
10	MR	Elbow, 2" dia 45 degree , for HDPE pipe, with Butt Fusion joint, supply and fixing.	Each	4		
11	MR	Elbow, 4" dia 90 degree , for HDPE pipe, with Butt Fusion joint, supply and fixing.	Each	15		
12	MR	Elbow, 4" dia 45 degree, for HDPE pipe, with Butt Fusion joint, supply and fixing.	Each	50		
13	MR	Elbow, 6" dia 45 degree, for HDPE pipe, with Butt Fusion joint, supply and fixing.	Each	12		
14	MR	Elbow, 6" dia 90 degree, for HDPE pipe, with Butt Fusion joint, supply and fixing.	Each	12		
15	MR	<b>Bedding and surround</b>				
16	MR	Crushed Aggregate with maximum nominal size of 3 mm to 6 mm graded.	Cft	28,742		
		<b>Valve Chamber</b>				
17		Providing , and fixing different types of <b>valve by Ascon</b> or equivalent , with all accessories (union , gasket , flanges, bends etc ) including connection, jointing and testing in accordance with the specifications. Complete in all respect as directed by the Engineer.				
18	MR	a. Double Acting Air Valve equipped with isolating valve	Each	4		
19	MR	b. Gate Valve (4" dia.)	Each	7		
20	MR	c. Gate Valve (6" dia.)	Each	3		
		<b>TOTAL (NON-SCHEDULE ITEMS)</b>				

**A) EXTERNAL WATER SUPPLY**

<b>ITEM NO.</b>	<b>PWD SCHEDULE 2022 ITEM CODE</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
		<b>Excavation</b>				
21	103-2	Excavation for foundation trenches and drains in gravelly soil and back filling the excavated material in foundation trenches plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed lead upto one chain (30.5 R.m) and lift upto 5 feet (1.52m).	Cft	145,262	18.62	2,704,769
22	310-24	Providing chambers 2-1/3 ft x 1-1/2 ft or 685 mm x 460 mm (inside dimensions) x 4-1/2 ft (1372 mm) deep as per approved design for sluice valves 3 inches to 12 inches (80 mm to 305 mm) dia, with 18 inches (460 mm) dia, (inside) cast iron cover and frame (wt = 1 cwt. 3 qr. or 88.9 kg) fixed in R.C.C. 1 :2:4 slab 4 inches (100 mm) thick (with 5 lbs .. of steel per CFT or 80.09 kg/cm.) 8 inches (205 mm) thick C.C. 1 :3:6 block masonry walls set in 1:4 C.M., 6 inches (150 mm) thick C.C. 1:3:6 in foundation, 1/2 inches (13 mm) thick cement plaster 1 :3 to all inside wall surfaces and to top. including providing and fixing C.I. foot rest at every one foot beyond 2-1/2 feet (765 mm) depth, curing, excavation, back filling and disposal of surplus earth etc. complete ..	Each	4	45,496.64	181,987
		<b>TOTAL (SCHEDULE ITEMS)</b>				<b>2,886,756</b>

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**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE SCIENCES UTHAL BALOCHISTAN WADH CAMPUS**  
**BILL OF QUANTITY COST ESTIMATE**  
**BASED ON PWD SCHEDULE OF RATES 2022**  
**B) EXTERNAL SEWERAGE**

ITEM NO.	PWD SCHEDULE 2022 ITEM CODE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<b>Excavation</b>				
1	103-2	Excavation for foundation trenches and drains in gravelly soil and back filling the excavated material in foundation trenches plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed lead upto one chain (30.5 R.m) and lift upto 5 feet (1.52m).	Cft	220,913.00	18.62	4,113,400.06
	103-2+28	Add for additional lift of every three feet (0.9 m) or part thereof in item Nos. 1 to 4, 10 to 13 and 19 to 22	Cft	77,560.50	20.99	1,627,994.90
		<b>TOTAL (SCHEDULE ITEMS)</b>				<b>5,741,394.96</b>
		<b>Aggregate</b>				
2	MR	Crushed Aggregate with maximum nominal size of 3 mm to 6 mm graded.	Cft	70,569.00		
		<b>Sewarage Pipe</b>				
3	MR	uPVC Pressure Pipe of class 'B' 8 inch dia pipe	Rft	12,212.50		
		<b>Manhole</b>				
4	MR	Providing circular manhole comprised on cylindrical and conal portions as per approved design and specifications complete with RCC 1:2:4 slab, 6" thickness C.C 1:3:6 situ wall 9" thickness with the deduction of pipe holes, C.C 1:3:6 in foundation 6" thick and 1:2:4 C.C in benching using sulphate resting cement in all C.C works including providing and fixing cast iron foot rest at every two foot of depth copltered as per direction of the Engineer- in charge but excluding the cost excavated stuff,manhole cover and frame				
		b. Depth up to the invert level 6ft (39 Manholes)	cft	3,920.72		
		c. Depth up to the invert level 6ft to 8ft (48 Manholes)	cft	4,825.50		
		d. Depth up to the invert level 8ft to 10ft (20 Manholes)	cft	2,520.00		

5	MR	Providing all materials and labour T & P to construct RCC Drop Manholes, of different sizes, consisting excavation, backfilling, disposal of surplus earth, shoring , dewatering etc, concrete (cylindrical strength of 3000psi) in base slab , R.C.C Rings walls , walls and top slab , inside 1/2 inch thick 1:4 C.S mortar plaster, all using SR cement, including steel form work fixing and removing (ordinary finished) manhole RCC Covers with frame, steel rungs, benching, including the cost of reinforcing steel, outside bitumen coating (2 layers) as per drawing, and in accordance with the specification. Complete in all respect as directed by the Engineer.				
		a. Difference of Incoming Sewer I.L upto 4ft	Each	1.00		
<b>TOTAL (NON-SCHEDULE ITEMS)</b>						

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**LASBELA UNIVERSITY OF AGRICULTURE WATER AND MARINE SCIENCES UTHAL BALOCHISTAN WADH CAMPUS**  
**BILL OF QUANTITY COST ESTIMATE**  
**BASED ON PWD SCHEDULE OF RATES 2022**

C) EXTERNAL DRAINAGE						
ITEM NO.	PWD SCHEDULE 2022 ITEM CODE	DESCRIPTION	UNIT	QUANTI TY	RATE	AMOUNT
		<b>Excavation</b>				
1	1-1	Excavation for foundation trenches and drains in gravelly soil and back filling the excavated material in foundation trenches plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed lead upto one chain (30.5 R.m) and lift upto 5 feet (1.52m).	Cft	100,740	18.62	1,875,778.80
		<b>Concrete</b>				
2	105-14	Providing ar.d laying 1 :4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete using graded gavel (bajri) 1 inch (25 mm) and down gauge in \ foundation including levelling, compacting and curing etc.complete	100 Cft	10,074	23,504.6	2,367,852.40
3	105-8	Providing and laying 1 :2:4 ( 1 cement 2 sand and 4 coarse aggregate) cement concrete using graded gravel (bajri) 1 inch (25 mm) and down gauge in foundation including levelling, compacting and curing etc. complete.	100 Cft	53,225	31,045	16,523,811.26
		<b>Reinforcement</b>				
4	114-166	Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1 :2:4 precast or m.s. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension .	Kg	111772.1	282	31,570,029.65
		<b>Grating</b>				
5	124-11	Providing and fixing cast iron grating in chuilah etc. complete	kg	3,276	308.95	1,012,058.41
6	101-127	Providing and fixing PVC water-stop and expansion Joint plain 6" to 7" (152 mm to 179 mm) wide placed horizontally at 2" or 51 mm depth from top surface of pavement, 1/2" (13 mm) wide joint filler of fibre board in bottom and top filled with premoutedd bitumen filler of approved proprietary brand complete.	100 Rft	730	23,857.69	174,256.57
<b>TOTAL (SCHEDULE ITEMS)</b>						<b>53,523,787.08</b>

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