



Ravi Urban Development Authority

RAVI RIVERFRONT URBAN DEVELOPMENT PROJECT



CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

JANUARY 2026

BIDDING DOCUMENTS – VOLUME I

- Instructions to Bidders (ITB)
- Bidding Data Sheet
- Form of Technical Bid and Price Bid and Schedules to Bid
- Form of Bid Security
- Form of Performance Security
- Form of Contract Agreement
- Form of Mobilization Advance Guarantee
- Form of Indemnity Bond
- General Conditions of Contract, Part-I (GCC)
- Particular Conditions
 - Part A – Contract Data
 - Part B – Special Provisions



National Engineering Services Pakistan (Pvt.) Limited

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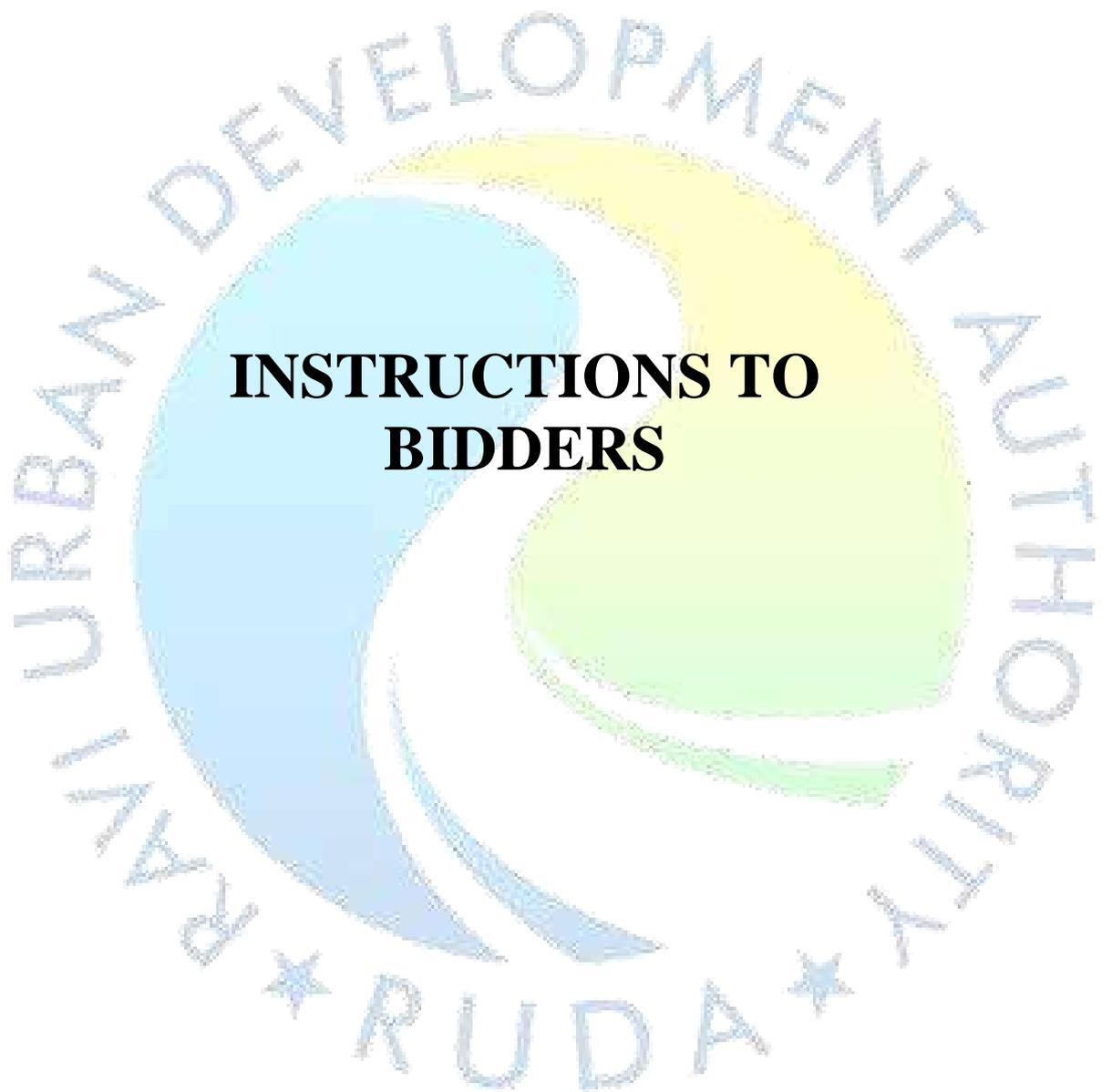
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INSTRUCTIONS TO BIDDERS

INSTRUCTIONS TO BIDDERS

A. GENERAL

IB.1 Scope of Bid

- 1.1 The Employer as defined in the Bidding Data 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 ***Bidding Data*** hereinafter referred to as the “Works”.
- 1.2 The successful Bidder will be expected to complete the Works within the time specified in ***Bidding Data***.

IB.2 Source of Funds

- 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 Bidding Data 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.

IB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to all Bidders meeting the following requirements at the time of submission of Bids and thereafter:
 - a) Duly eligible for this bidding process;
 - 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.

However, a Foreign Constructor can submit provisional license with its Bid but the Foreign Constructor will be required to submit standard license after award of Contract and before start of work.

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;

- c) Pakistani Constructor must be on Active Taxpayer List of the Federal Board of Revenue and provincial revenue authority/ board where applicable; and
- 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 & Provincial Procurement Regulatory Authorities and have not

been declared debarred/ blacklisted by foreign country, international organizations or other foreign institutions.

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 of Contract, (GCC);
5. Particular Conditions of Contract, (PCC);
 - 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;
 - vii. Bill of Quantities (Schedule – B to Bid);
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 (07) 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 pursuant to 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 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 bidding document 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 program etc.

12.2 Bids submitted by a Joint Venture of two (02) 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 agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.
- 12.3 The Bidder shall also submit proposals of work methods and schedules in sufficient detail to demonstrate the adequacy of the Bidders' proposal 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 shall in no case 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 the amount stipulated in the **Bidding Data** in Pak Rupees 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/either 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

[Note: Insurance Company includes Joint Ventures of Insurance Companies also]

- 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:
- (a) If the Bidder withdraws his Bid except as provided in Sub Clause IB 22.1;
 - (b) If the Bidder does not accept the correction of his Bid Price pursuant to Sub Clause IB 28.2 hereof; or
 - (c) 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 Alternate 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 sum entered on the Letter of Bid shall be that which represents complete compliance with the Bidding Documents.
- 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.

IB.18 Format and Signing of Bid

- 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 by the Employer.
- 18.5 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person 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 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 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 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 Form 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 the requirements 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 non-material 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; and
- (b) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the 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 Price 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 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;
 - (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 Bid evaluation.

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 upto 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 Bids

- 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 obligations.

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.38 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 Punjab 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

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

IB Clause Reference	Bidding Data
1.1	<p>Name and address of the Employer: Name: <i>Ravi Urban Development Authority (RUDA)</i> Address: <i>Engineering Wing of RUDA,5-C Muslim Town, Facing Canal, Near Punjab Group of Colleges, Lahore.</i></p>
1.1	<p>Name of the Project & Summary of the Works: Project: <i>Construction Of Entry Gate and At Grade Improvement for Entrance at Chahar Bagh Phase-I</i> <i>Brief summary of work under this contract shall be:</i></p> <ul style="list-style-type: none"> • <i>Earthwork and Allied Activities</i> • <i>Sub-base & Base Course</i> • <i>Surface Courses & Pavement</i> • <i>Ancillary Works</i> • <i>Drainage Works</i> • <i>Dismantling of Existing Structure</i> • <i>Electrical Works (P.S)</i>
1.2	<p>Time for Completion for the Works: 180 days</p>
1.3	<p>New Sub-Clause 1.3 is added: “Bids shall be invited on <u>Single Stage Two Envelope Bidding Process.</u>”</p>
2.1	<p>Name of the Borrower/Source of Funding: <i>Employer’s Own Sources</i></p>
3.1	<p>Sub-paras (a) to (d) are deleted in their entirety and substituted with the following:</p> <ol style="list-style-type: none"> a) Bids are invited according to Rule 25 of RUDA Procurement Regulations 2022 (amended); b) Duly licensed by the Pakistan Engineering Council (PEC) in Category C-3 or above having specialization in codes: “CE-01, CE-09, CE-10 (General Civil Engineering Works), EE-11 (vi) (General Electrical Works Only)”. c) Foreign Constructor must submit at least provisional license with its Bid but the Foreign Constructor will be required to submit standard license after award of Contract and before start of work.

	<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>d) In addition to above, bidders should meet the following eligibility criteria:</p> <ul style="list-style-type: none"> • Registration with Income Tax & Sales Tax Department (valid income tax & Sales Tax certificate is required); • Firm(s) should not have Litigation History in which Decision has been given against the firm(s); <p>The Firm(s) shall not be eligible to participate if debarred / blacklisted by any Government / Semi Government / Public Department / International Body(ies).</p> <ul style="list-style-type: none"> • Registration with Income Tax & Sales Tax Department (valid income tax & Sales Tax certificate is required); <p>The Firm(s) shall not be eligible to participate if debarred / blacklisted by any Government / Semi Government / Public Department / International Body(ies);</p> <p>e) Bidder (Single Entity /JV /Consortium of two or more members) must meet qualification requirements given in Schedules K & L to Bid.</p> <p>Minimum 65% marks are necessary in each category and Minimum 70% overall marks are necessary for qualification. If firm / company or organization formed as JV or Consortium of two or more members, wishes to Bid, the lead member must secure minimum 50% marks in each category of Schedule-K and Schedule-L to Bid.</p> <p><u>Note: The Bidder (Single Entity /JV/Consortium of two or more members), must fulfil all the specialized codes collectively as mentioned in sub-para 3.1(b) and must fulfil sub-para 3.1(d) & 3.1(e) individually, by each member of JV/Consortium of two or more members.</u></p>
<p style="text-align: center;">7.1</p>	<p>Words ‘Letter of Bid’ appearing at number 7 is replaced with “Letter of Technical Bid and Letter of Price Bid”.</p> <p>The following document is added at the end:</p> <p>11. Environmental Management Plan.</p>

<p>8.1</p>	<p>Time limit for clarification: <i>03 days before deadline for submission of Bids.</i></p>
<p>8.3</p>	<p>Venue, time, and date of the Pre-Bid meeting: <i>Pre-Bid Meeting shall be held on date and venue as mentioned in advertisement.</i></p>
<p>8.4</p>	<p><i>Sub-clause 8.4 is amended as: “The Bidders are requested to submit questions,if any, in writing not later than the time of Pre-Bid Meeting”.</i></p>
<p>9.3</p>	<p>Number of days: <i>3 calendar days</i></p>
<p>11.1</p>	<p>Bid language: <i>The language of the Bidding Documents is English.</i></p>
<p>12.1</p>	<p>In sub-para (a), words ‘Letter of Bid’ are replaced with “Letter of Technical Bid and Letter of Price Bid”.</p> <p>Following Schedules are added in sub-para (f). “Schedule-K to Bid: Financial Competence and Access to Financial Resources Schedule-L to Bid: Past Performance, Current Commitment, Equipment & Personnel Qualification and Experience”</p>
<p>12.1 (A)</p>	<p>The following text is added: The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Bid containing the document as listed under para (1) and the other called the Price Bid containing the documents listed in para (2) hereunder.</p> <p>(1) Technical Bid Shall comprise the following documents duly filled and signed</p> <ul style="list-style-type: none"> - <i>Letter of Technical Bid</i> - <i>Bid Security</i> IB.16 - <i>Written confirmation authorizing the signatory of the Bid to commit the Bidder</i> IB.18 - <i>Pending litigation information</i> On Rs. 200 E-stamp paper

	<ul style="list-style-type: none"> - <i>Proposed Construction Schedule</i> Schedule – C to Bid - <i>Method of Performing the Work (as filled by Bidder)</i> Schedule – D to Bid - <i>List of Major Equipment – Related Items (as filled by Bidder)</i> Schedule – E to Bid - <i>Organization Chart for Supervisory Staff (as filled by Bidder)</i> Schedule – F to Bid - <i>List of Sub-contractors (as filled by the Bidder)</i> Schedule – G to Bid - <i>Construction Camp and Housing Facilities (as filled by Bidder)</i> Schedule – I to Bid - <i>Integrity Pact</i> Schedule – J to Bid - <i>Financial Competence and Access to financial Resources</i> Schedule – K to Bid - <i>Past Performance, Current Commitment, Equipment &</i> Schedule – L to Bid - <i>Personnel Qualification and Experience</i> - <i>General Conditions (GC)</i> Refer Volume-I - <i>Particular Conditions (PC)</i> Refer Volume-I <li style="padding-left: 20px;"><i>Part A – Contract Data</i> - <i>Particular Conditions (PC)</i> Refer Volume-I <li style="padding-left: 20px;"><i>Part B – Special Provisions</i>
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	<ul style="list-style-type: none"> - <i>Specifications Part A - Specific Provisions</i> Refer Volume-III - <i>Specifications Part B - Technical Provisions</i> Refer Volume-III - <i>Drawings</i> Refer Volume-IV <p>(2) Price Bid Shall comprise the following documents duly filled and signed</p> <ul style="list-style-type: none"> - <i>Letter of Price Bid</i> - <i>Foreign Currency Requirement</i> Not Used - <i>Schedule of Adjustment Data</i> A-1 Schedule – A to Bid - <i>Schedule of Adjustment Data</i> A-2 Schedule – A to Bid - <i>Schedule of Adjustment Data</i> A-3 Schedule – A to Bid Not Used - <i>Schedule of Adjustment Data</i> A-4 Schedule – A to Bid Not Used - <i>Schedule of Adjustment Data</i> A-5 Schedule – A to Bid Not Used - <i>Bill of Quantities</i> Schedule – B to Bid (Refer Volume – II) - <i>Estimated Progress Payment</i> Schedule – H to Bid
12.2	Maximum number of JV / Consortium Members shall be 03 (Three Nos.)
12.3	Sub-clause is deleted in its entirety and replaced with the following:

	<p>“The Bidder shall furnish, as part of the Technical Bid, a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Bidding Forms, in sufficient detail to demonstrate the adequacy of the Bidder’s proposal to meet the work requirements and the completion time referred to in Sub-Clause 1.2 hereof.”</p>
12.4	<p>New Sub-clause is added:</p> <p>“The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Bid and the other the Price Bid, containing the documents as listed under Sub – Clause 12.1(A) above. Both envelopes are to be enclosed together in an outer single envelope called the Bid. Each Bidder shall furnish all the documents as specified in Bidding Data 12.1(A).”</p>
13.1	<p>Words ‘Letter of Bid’ appearing in second line are replaced with “Letter of Price Bid”.</p>
14.1	<p>Existing text is deleted and replaced with the following:</p> <p>“Bidders to quote entirely in PKR Rupees. Foreign Currency Requirements are not applicable.”</p>
14.2	<p>Existing text is deleted and replaced with the following:</p> <p>“Payment under this contract shall be made entirely in PKR Rupees.”</p>
15.1	<p>The Bids shall remain valid for 90 days after the date of opening of Bid.</p>
16.1	<p>Amount of Bid Security: <i>06 million.</i></p>
16.2	<p>Sub-clause is deleted in its entirety and replaced with the following:</p> <p>“The Bid Security shall be in the form of Bank Guarantee by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan in favour of the Employer valid for a period 28 days beyond the Bid Validity date. The Bid Security of Joint Venture shall be in the name of Joint Venture or Lead Firm on behalf of the JV.”</p>
16.4	<p>Sub-clause is deleted in its entirety and replaced with the following:</p> <p>“The Bid securities of unsuccessful Bidders will be returned as promptly as possible, but not later than 28 days after the expiration of the period of Bid Validity.”</p>
16.5	<p>Sub-clause is deleted in its entirety and replaced with the following:</p> <p>“The Bid Security of the successful Bidder will be returned when the Bidder has furnished the required Performance Security and signed the Contract Agreement.”</p>
16.6	<p>Sub-clause (c) is deleted in its entirety and replaced with the following:</p> <p>In the case of successful Bidder, fails within the specified time limit</p>

	<p>to:</p> <p>(i) Furnish the required Performance Security;</p> <p>(ii) Sign the Contract Agreement.</p> <p>(iii) Furnish the required JV agreement (if applicable) within 7 days of the receipt of letter of acceptance.”</p>
17	<i>Alternative Proposal(s) by the Bidder shall not be considered.</i>
18.1	Words “Letter of Bid” are amended to read as “Letter of Price Bid”.
18.3	Words “Letter of Bid” are amended to read as “Letter of Technical Bid and Letter of Price Bid”.
18.4	Sub-clause is deleted in its entirety and replaced with the following: “The Bidder shall prepare one original of the Technical Bid and one original of the Price Bid comprising the documents as described in sub-clause 12.1 (A) (1) & 12.1 (A) (2) Bidding Data and clearly mark it “ORIGINAL - TECHNICAL BID” and “ORIGINAL - PRICE BID”. In addition, the Bidder shall submit two (02) number of copies of the Bid as given in the Bidding Data and clearly mark each of them “COPY.” In the event of any discrepancy between the original and the copies, the original shall prevail. The envelope containing the Price Bid shall also be marked with a caution: “Not to be opened unless the Technical Bid is opened and evaluated”.
18.7	Words ‘Letter of Bid’ are replaced with “Letter of Technical Bid and Letter of Price Bid”.
19.1	Sub-para (c) is added: c) The envelope containing Technical Bid should comprise the documents listed in IB 12.1 (A) (1) & the Price Bid comprise the documents listed in IB 12.1 (A) (2) which shall be placed in separate envelopes in accordance with IB 12.1”.
19.2(a)	Employer's address for the purpose of Bid submission: Mentioned in Advertisement.
19.2(b)	Name and Number of the Contract: <i>Name: Construction Of Entry Gate and At Grade Improvement for Entrance at Chahar Bagh Phase-I.</i>
19.2(c)	Warning: Not to open before the time and date set for bid opening.
20.1(a)	Deadline for submission of Bids: The Bids must be submitted by no later than the date and time as mentioned in advertisement.
23	Whole clause IB 23 is deleted in its entirety and substituted with the following: 23.1 The Employer will open the Technical Bids in public at the address, date and time specified in the Bidding Data in the presence

of Bidders` designated representatives who choose to attend. The Price Bids will remain unopened and will be held in custody of the Employer until the specified time of their opening.

23.2 First, envelopes marked “WITHDRAWAL” shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but returned to the Bidder. No Bid withdrawal shall be permitted unless the corresponding Withdrawal Notice contains a valid authorization to request the withdrawal and is read out at Bid opening.

23.3 Second, outer envelopes marked “SUBSTITUTION” shall be opened. The inner envelopes containing the Substitution Technical Bid and/or Substitution Price Bid shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Bidder unopened. Only the Substitution Technical Bid, if any, shall be opened, read out, and recorded. Substitution Price Bid will remain unopened in accordance with IB.22. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at Bid opening.

23.4 Next, outer envelopes marked “MODIFICATION” shall be opened. No Technical Bid and/or Price Bid shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of Technical Bids. Only the Technical Bids, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Price Bids, both Original and Modification, will remain unopened in accordance with IB 23.1. The Bidders` representatives who are present shall be requested to sign the record. The omission of a Bidder’s signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

23.5 Other envelopes holding the Technical Bids shall be opened one at a time, and the following are read out and recorded:

- (a) the name of the Bidder;
- (b) whether there is a modification or substitution;
- (c) the presence of a Bid Security, if required; and
- (d) Any other details as the Employer may consider appropriate.

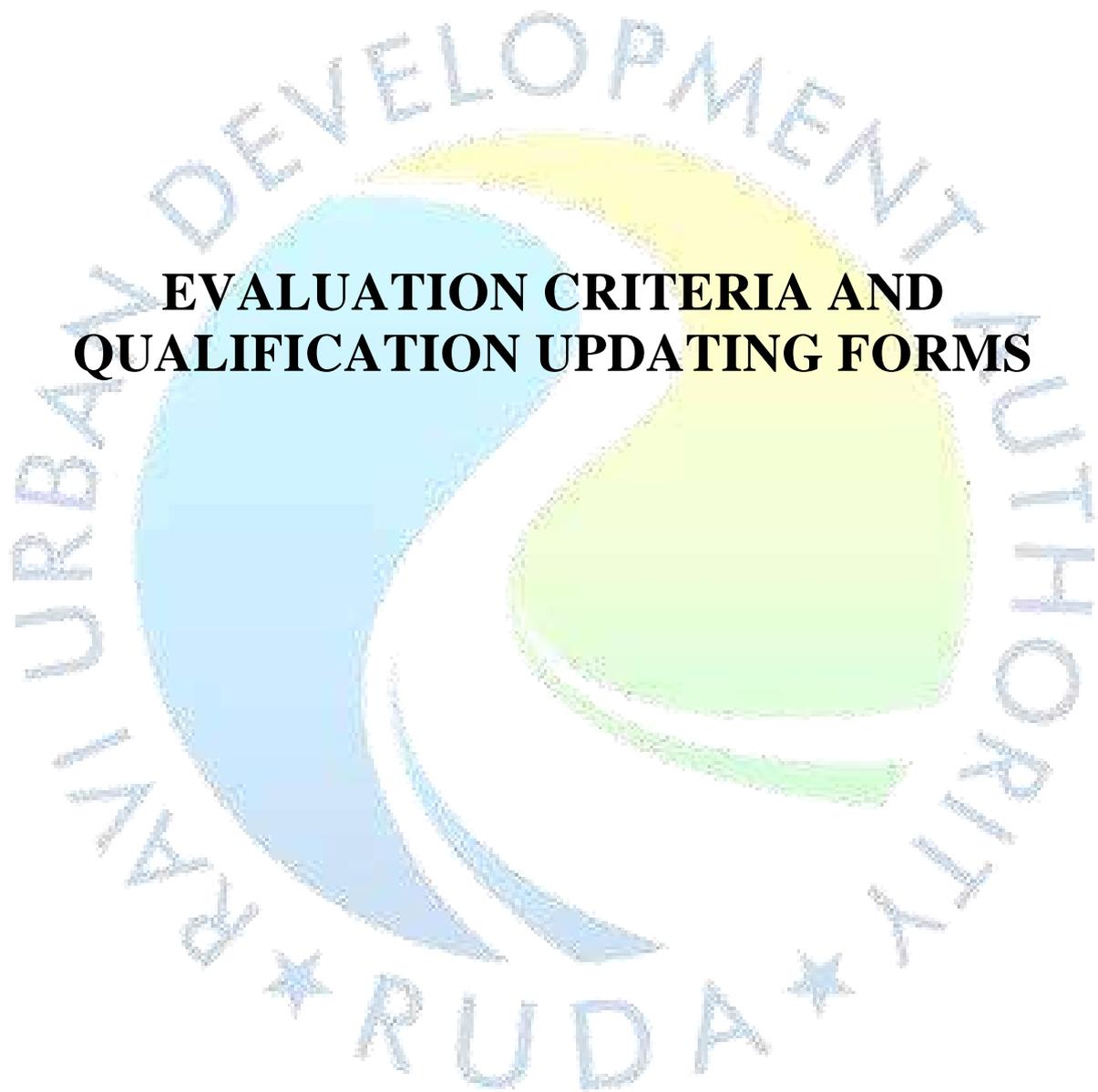
No Bid shall be rejected at the opening of Technical Bids except for late Bids, in accordance with IB 21.1. Only Technical Bids read out and recorded at Bid opening, shall be considered for evaluation.

23.6 Preliminary Examination of Technical Bids

- (a) Prior to the detailed technical evaluation of bids, the Employer will determine the basic eligibility requirement set out under sub-clause BD 3.1 & submission of all completely filled in and signed documents listed in sub-clause 12.1 (A). The bidder qualifying the

	<p>requirements mentioned under these sub-clauses and clause IB 26 shall be considered as substantially responsive and shall be considered for detailed technical evaluation.</p> <p>The Employer shall then examine qualification and experience Data as per Schedule-K & L to Bid submitted by the Bidder. The Technical Bid examination of those Bidders only shall be considered further who is substantially responsive and meeting the minimum requirement as mentioned in Schedule-K & L to Bid.</p> <p>23.7 The Employer shall confirm that all the documents and information have been provided for evaluation of Technical Bid as required under these Bidding documents.</p> <p>23.8 At the end of the evaluation of the Technical Bids, the Employer will invite only those Bidders who have submitted substantially responsive Technical Bids and who have been determined as being qualified for award to attend the opening of the Price Bids. The date, time, and location of the opening of Price Bids will be advised in writing by the Employer. Bidders shall be given reasonable notice for the opening of Price Bids.</p> <p>23.9 The Employer will notify Bidders in writing who have been rejected on the grounds of their Technical Bids being non-responsive to the requirements of the Bidding Document and return their Price Bids unopened before inviting others, who are determined as being qualified, to attend the opening of Price Bids.</p> <p>23.10 The Employer shall conduct the opening of Price Bids of all Bidders who submitted substantially responsive Technical Bids, publicly in the presence of Bidders` representatives who choose to attend at the address, date and time specified by the Employer. The Bidder`s representatives who are present shall be requested to sign a register evidencing their attendance.</p> <p>23.11 All envelopes containing Price Bids shall be opened one at a time and the following are read out and recorded:</p> <ul style="list-style-type: none">(a) The name of the Bidder;(b) Whether there is a modification or substitution;(c) The Bid Prices, including any discounts and alternative offers (if permissible); and(d) Any other details as the Employer may consider appropriate. <p>Only Price Bids and discounts, read out and recorded during the opening of Price Bids shall be considered for evaluation. No Bid shall be rejected at the opening of Price Bids.</p> <p>23.12 If this Bidding Document allows Bidders to quote separate prices for different contracts, and the award to a single Bidder of multiple contracts, the methodology to determine the lowest evaluated price of the contract combinations is that which is most economical to the Employer.</p>
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	<p>23.13 The Employer shall prepare minutes of the Bid opening of Technical and Price Bids, including the information disclosed to those present in accordance with the Sub-Clauses IB.23.5 & 23.11.</p> <p>Nevertheless, in the process of evaluation of price bid, employer will examine that all the documents listed in 12.1 (A)(2) hereof have been submitted.</p>
26.3	<p>Text of opening paragraph is amended as under: “A substantially responsive Bid is one which (i) meets the eligibility requirements as per Clause IB.3.1 (ii) contains all the documents as given in Sub-Clause IB.12.1(A) of the Bidding Data (iii) includes signed Integrity as per Clause IB.37 (iv) conforms to all the terms and conditions and specifications of the Bidding Documents, without material deviation, reservation or omission. A material deviation is one that:”</p>
26.5	<p>In second line, the text “Sub-Clause IB.12.1(f)” is replaced with “schedule K & L to Bid”.</p>
29.1	<p>Word “price” is placed after words “only the” in first line.</p>
35.1	<p>The successful Bidder shall provide to the Employer a Performance Security 10% in the form of a Bank Guarantee from any Scheduled Bank in Pakistan or a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan within a period of seven (07) days after the receipt of Letter of Acceptance or Insurance Guarantee by Companies having rating AA (+) rated by PACRA/VIS. Hence, total amounting to ten (10) percent of the Contract Price stated in the Letter of Acceptance.</p>
36.1	<p>Word “14 days” is replaced with Word “7 days”.</p>
39.2	<p>In last line words ‘prevailing Public Procurement Rules 2022 (Amended)’ are replaced with “relevant RUDA Procurement Regulations “</p>
40	<p>The following clause is added: IB. 40 General Performance of the Bidders 40.1 The Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts/works. The Employer may in case of consistent poor performance of any Bidder as reported by the employers of the previously awarded contracts, inter alia, reject his bid and/or refer the case to the Pakistan Engineering Council (PEC). Upon such reference, PEC in accordance with its rules, procedures and relevant laws of the land take such action as may be deemed appropriate under the circumstances of the case including black listing of such Bidder and debarring him from participation in future bidding for similar works.”</p>



EVALUATION CRITERIA AND QUALIFICATION UPDATING FORMS



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:
Bidder's year of incorporation:
Bidder's legal address:
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			
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

• **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	

• **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:

- 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).
- 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 statements¹ for the last year required above; and complying with the requirements.
- 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.



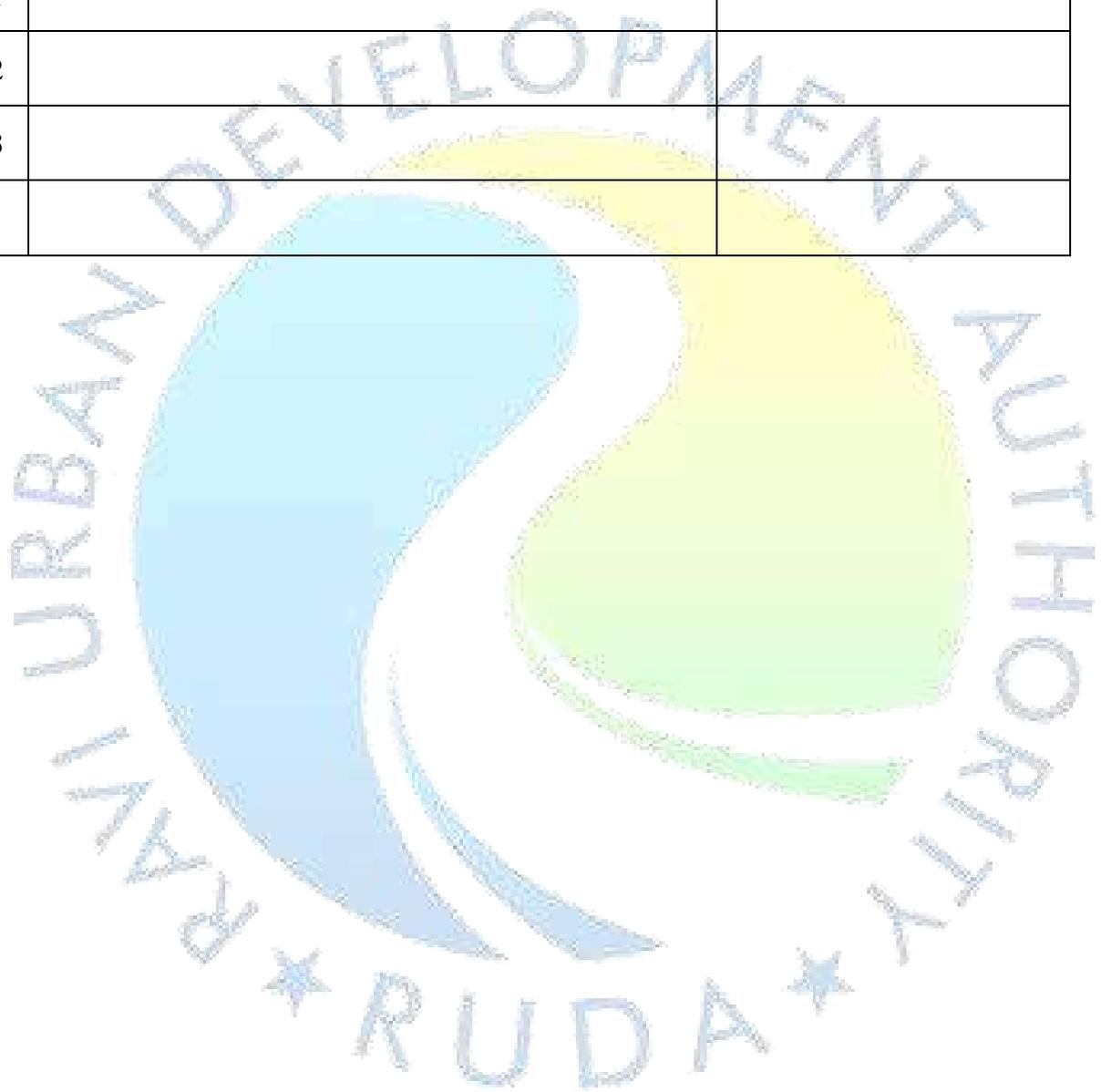


Form FIN – 3.2:

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.

Financial Resources		
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.

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



**LETTER OF TECHNICAL BID & LETTER
OF PRICE BID
AND
SCHEDULES TO BID**





Letter of Technical Bid

Date:

Bid Reference No:

(Name of Contract/Works)

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents as per 12.1(A)(1) provided in **Bidding Data**, including Addenda issued in accordance with Instructions to Bidders (IB) 9 for the execution of Works;
- (b) We offer to execute and complete in conformity with the Bidding Documents the following Works:
- (c) Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) We meet the eligibility requirements in accordance with IB.3.
- (e) We, including any Subcontractors for any part of the Contract, are not debarred/ blacklisted by the Employer, any Government/Semi Government/Public Department in Pakistan or foreign country, international organizations or other foreign institutions.
- (f) Our subcontractors or suppliers for any part of the Contract, if any, shall have nationalities from eligible countries, in accordance with IB.4.4.
- (g) We understand that all the Schedules attached hereto form part of this Bid.
- (h) We undertake, if our Bid is accepted, to commence the Works and to complete the whole of the Works comprised in the Contract within the time stated in Contract Data.
- (i) We agree to abide by this Bid for the period of days, inclusive of days beyond Bid validity period as mentioned in and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (j) Unless and until a formal Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
- (k) We do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other Bidder for the Works.
- (l) As security for due performance of the under takings and obligations of our Bid, we submit here with a Bid security, in the amount specified in **Bidding Data**, which is valid (at least) 28 days beyond validity of Bid itself.
- (m) We undertake that all the information and documents submitted with the Bid are genuine, and in case of incorrect information of fake documents we shall be liable for punitive action under the Applicable Law.
- (n) We are not participating, as a Bidder or as a subcontractor, in more than one Bid in this Bidding process, other than alternative offers submitted in accordance with IB17 (as applicable).



- (o) We agree to permit Employer or its representative to inspect our accounts and records and other documents relating to the Bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with IB.12.1 (A)(1) of the **Bidding Data**.

Name

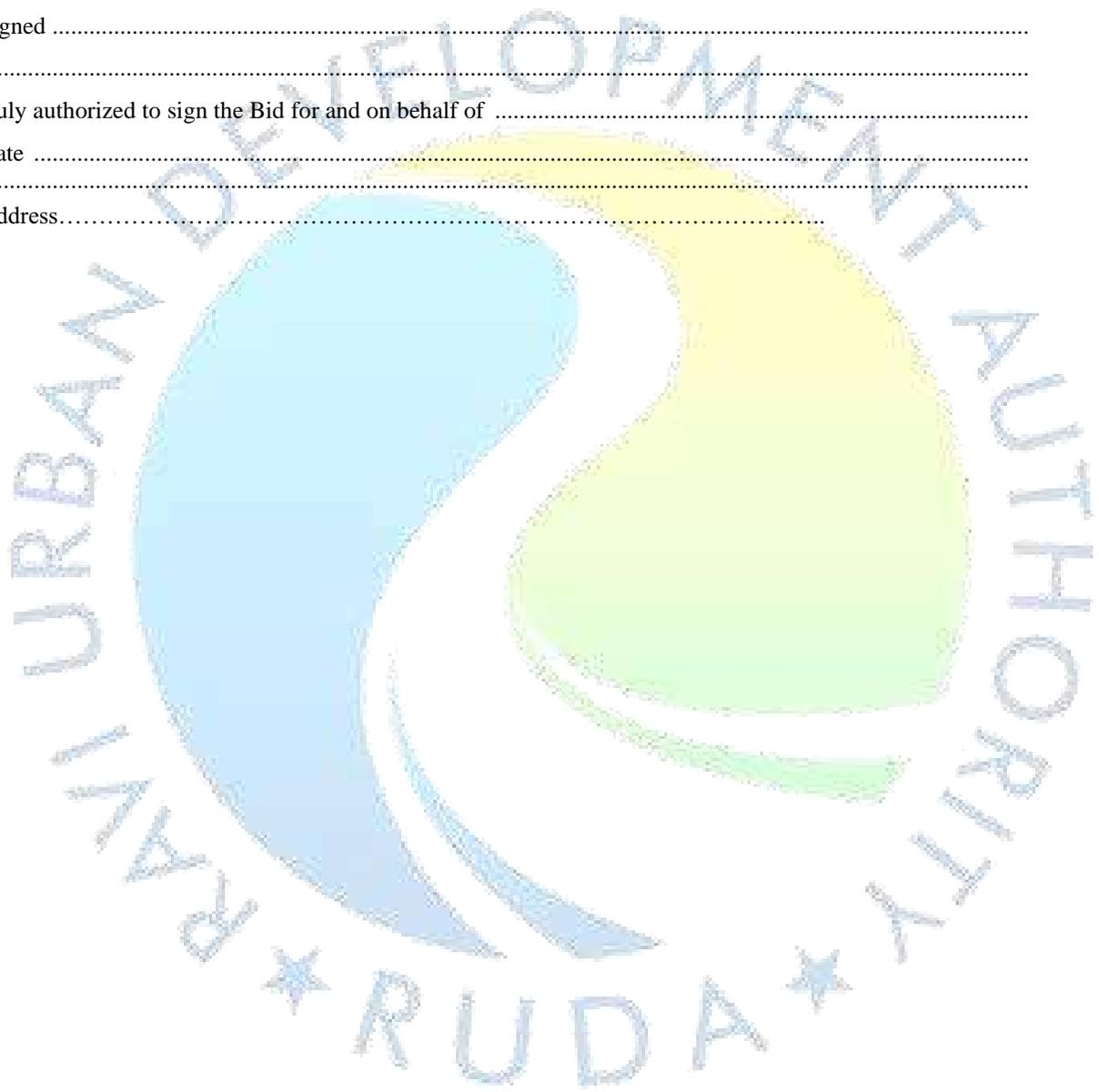
In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

Address.....





Letter of Price Bid

Date:

Bid Reference No:

(Name of Contract/Works)

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents as per 12.1(A)(2) provided in Bidding Data, including Addenda issued in accordance with Instructions to Bidders (IB) 9 for the execution of Works;
- (b) The total price of our Bid, excluding any discounts offered in item (c) below is:
- (c) The discounts offered and the methodology for their application are:
- (d) Our Bid shall be valid for a period of days from the date fixed for the bid submission deadline in accordance with the **Bidding Data**, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (e) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents as specified in **Bidding Data**;
- (f) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed and we do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the Works.
- (g) We understand that you are not bound to accept the lowest evaluated Bid or any other Bid that you may receive.
- (h) We agree to permit Employer or its representative to inspect our accounts and records and other documents relating to the Bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with IB.12.1 (A)(1) of the **Bidding Data**.



LPB-2

(i) If awarded the contract, the person named below shall act as Contractor's Representative.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

Address.....



A- 1
Schedule – A to Bid

SCHEDULE OF ADJUSTMENT DATA

Schedule of Indexation

The source of indices and the weightages or coefficients for use in the adjustment formula under Schedule shall be as follows:

$$P_n = \{a + b*(L_n/L_o) + c*(C_n/C_o) + d*(D_n/D_o) - 1\}$$

where:

“P_n” 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 constant, 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, aggregate and High-Speed Diesel;

L_n, C_n, D_n, 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 28 days prior to the last day of the period (to which the particular Payment Certificate relates); and

L_o, C_o, D_o, 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 Contractor fails to complete the Works within the Time for Completion prescribed under Clause 8.2, adjustment of prices thereafter until the date of completion of the Works shall be made using either the indices or prices relating to the prescribed time for completion, or the current indices or prices, whichever is more favorable to the Employer, provided that if an extension of time is granted pursuant to Clause 8.5, the above provision shall apply only to adjustments made after the expiry of such extension of time.

The weightages for each of the factors of cost given in Schedule of Adjustment Data (Schedule – A to Bid) shall be adjusted if, in the opinion of the Engineer, they have been rendered unreasonable, unbalanced, or inapplicable as a result of varied or additional work executed or instructed under Clause 12.3. Such adjustment(s) shall have to be agreed in the variation order.

SCHEDULE OF ADJUSTMENT DATA UNDER GCC SUB-CLAUSE 13.7

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

Cost Element	Description	Coefficients	Weightages (%)	Applicable index
1	2	3	4	5
(i)	Fixed Portion	a	25	
(ii)	Labor (Unskilled)	b	15	Market Rates of material, Labour and Machinery for Price Adjustment as notified monthly by Pakistan Bureau of Statistics (PBS).
(iii)	Cement	c	5	Market Rates of material, Labour and Machinery for Price Adjustment as notified monthly by Pakistan Bureau of Statistics (PBS).
(iv)	Aggregate			Market Rates of material, Labour and Machinery for Price Adjustment as notified monthly by Pakistan Bureau of Statistics (PBS).
	Aggregate / Stone Crushed (Bajri)	d	20	
(v)	Steel	e	5	Market Rates of material, Labour and Machinery for Price Adjustment as notified monthly by Pakistan Bureau of Statistics (PBS).
(vi)	High Speed Diesel (HSD)	f	30	Source of Price of HSD shall be either Statistical Bulletin notified monthly by PBS, or Pakistan State Oil PSO or OGRA.
	Total		100	

Notes:

1. Indices for “(ii)” to “(vi)” shall be taken from “Finance Department published by Government of Punjab” for the city of Lahore.

The base date price (or base date index) of any element shall be the price of the element for the month on the day falling 28 days prior to the latest day for submission of bids.

The current date price (or current date index) of any element shall be the price of the element for the month falling on the 28 days prior to the last day of the period to which the particular Payment Certificate relates.



A-3
Schedule-A to Bid

SCHEDULE OF ADJUSTMENT DATA

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

Not Applicable





SCHEDULE OF ADJUSTMENT DATA

Table III. Foreign Currency Requirements

Not Applicable





SCHEDULE OF ADJUSTMENT DATA

Table IV. Summary of Payment Currencies

Not Applicable





B-1

Schedule – B to Bid

BILL OF QUANTITIES

Please Refer to Volume – II





C-1
Schedule-C to Bid

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. The Bidder shall provide as Schedule -C to Bid, the Construction Schedule in the bar chart (*CPM or PERT*) 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 below and counted from the date of receipt of Engineer’s Notice to Commence. (Attach sheets as required for the specified form of Construction Schedule):

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



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.



E-2
Schedule-E to Bid

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
1	2	3	4	5	6	7
a. Owned						
b. To be Purchased						
c. To be arranged on Lease						

E-3
Schedule-E to Bid

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	



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.

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



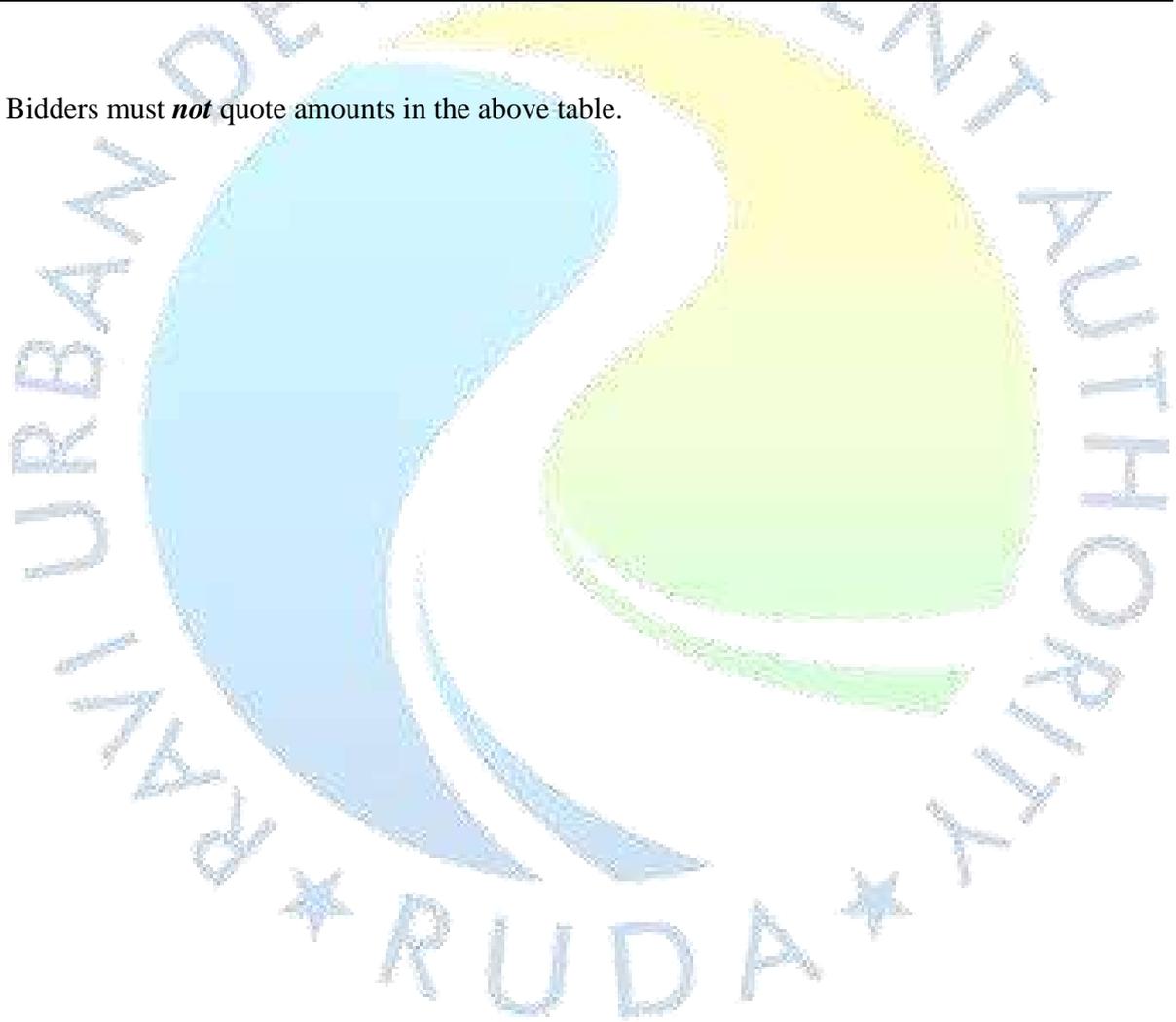
H-1
Schedule-H to Bid

ESTIMATED PROGRESS PAYMENTS

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Programme of the Works and the Rates in the Bill of Quantities, expressed in % thousands of PKR. Bidders are instructed to provide percentage (%) of bid price in each quarter.

Quarter	Percentage (%) of Contract Amount
1 st	
2 nd	

Note: Bidders must *not* quote amounts in the above table.



I-1
Schedule-I to Bid

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

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

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
 - a) 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.)

1. 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.



J-1
Schedule – J to Bid

(INTEGRITY PACT)
DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN
CONTRACTS WORTH RS. 10.00 MILLION OR MORE

Contract No. _____ Dated _____
Contract Value: _____
Contract Title: _____

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

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

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

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

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

Name of Buyer:
Signature:
[Seal]

Name of Seller/Supplier:
Signature:
[Seal]

FINANCIAL COMPETENCE AND ACCESS TO FINANCIAL RESOURCES

1. SOUNDNESS AND ACCESS TO FINANCIAL RESOURCES

Sr. #	DESCRIPTION	MAX MARKS	REMARKS
i)	<p>Available General Bank Credit Line Limit</p> <p>a) 9 Marks if the available bank credit line limit is equal to Rs. 100 million.</p> <p>b) No marks for less than Rs. 100 million.</p> <p>c) For the limit of more than Rs.100 million but less than Rs.150 million use following weight age $9 + (A/150) \times 6$.</p> <p>A= Available Bank Credit Line Limit in Million Rs.</p> <p>d) Full Marks are given in case of credit line limit is Rs.150 million or more.</p>	15	<p>No marks if general bank credit line certificate in form of valid credit Facility Offer Letter of scheduled bank is not attached.</p> <p><i>Note: Certificate must not be more than 06 months old.</i></p>
ii)	<p>Average Working Capital (AWC)</p> <p>a) 6 Marks if the average working capital is equal to Rs. 100 million.</p> <p>b) No marks for less than Rs.100 million.</p> <p>c) For the limit of more than Rs.100 million but less than Rs.150 million use following weight age $6 + (A/150) \times 4$.</p> <p>A= Average working capital in last three years in Million Rs.</p> <p>d) Full Marks are given in case of Average working capital is Rs.150 million or more</p>	10	<p>No marks if Annual Audit Report of last three years duly certified from Chartered Accountant Firm is not attached.</p>
iii)	<p>Bid Capacity</p> <p>[5 x working capital + Project/General specific lines of credit – 40% of current contract commitments] > Bid Price.</p>	5	<p>NOTE: Cost of balance works in hand should be attached, if cost of balance works is not given then total cost of the given works in hand will be considered for evaluating bid capacity. Zero marks for negative bid capacity.</p>
	Total Marks of Financial Position	30	

2. AVERAGE ANNUAL TURNOVER

Bidders to list their certified annual turnover (audited statements for last three years). **The Audited Statements must not be older than last 05 years.**



Note:

- *For qualification of the Bidder (Single Entity/JV/Consortium), Minimum 65% marks are necessary in each category and Minimum 70% overall marks are necessary for qualification requirement as per criteria given in Schedules – K & L to Bid.*
- *In case of JV/Consortium, the lead member must secure at least 50% marks in each category. If Lead partner fails to achieve the minimum 50% passing marks in any category of Schedule K & L will not be evaluated further and will be considered as technically failed overall.*



**PAST PERFORMANCE, CURRENT COMMITMENT, EQUIPMENT & PERSONNEL
QUALIFICATION AND EXPERIENCE**

1. PAST PERFORMANCE AND CURRENT COMMITMENTS

Sr. #	DESCRIPTION	MAX MARKS	REMARKS
i)	<p>Projects of similar nature and complexity (Roadworks) completed in last ten (10) years.</p> <p>i. 5 marks for each Project ii. Full marks for 4 or more Projects</p>	20	<p>No marks if Completion Certificate or Performance Certificate or Taking Over Certificate issued by the Client is not attached.</p> <p>(Attach list of similar nature and complexity of projects along with certificates issued by the employer with project worth).</p> <p><i>Note: Cost of relevant categories should be clearly mentioned and highlighted in the summary page of price BOQ issued by the Client.</i></p>
ii)	<p>Projects of similar nature and complexity (Roadworks) currently in hand.</p> <p>• 5 marks for each Project • Full Marks for 3 or more projects</p>	15	<p>No marks if breakup of quantities in form of approved BOQ / Approved IPC not attached. (Attach signed / approved BOQ / IPC of relevant projects)</p> <p>Attach, in tabular form, quantum of earthwork and stonework done in each project in works in hand.</p> <p>Summary page showing list of similar projects in hand with earthwork of 60 million cft and stonework of 5 million cft shall be attached.</p>
	Total Marks of Working Experience	35	

Note:

- For qualification of the Bidder (Single Entity/JV/Consortium), Minimum 65% marks are necessary in each category and Minimum 70% overall marks are necessary for qualification requirement as per criteria given in Schedules – K & L to Bid.



- *In case of JV/Consortium, the lead member must secure at least 50% marks in each category. If Lead partner fails to achieve the minimum 50% passing marks in any category of Schedule K & L will not be evaluated further and will be considered as technically failed overall.*



2. EQUIPMENT

Sr. #	DESCRIPTION	MAX MARKS	REMARKS
1.	Excavator (04 Nos)	4	<p>No marks if the manufacturing certificate / Purchase certificate / Leased / Rented / ownership proof is not attached.</p> <p>Proportionate marking if equipment is less than the minimum required number.</p> <p>Capacity of the equipment / Plant should be clearly mentioned.</p> <p><i>Note: No marks will be awarded if found any ambiguity or attached documents are not readable.</i></p>
2.	Dumpers (02 No.)	4	
3.	Motor Grader (02 No.)	2	
4.	Sheep Foot Vibratory Roller (02 No.)	2	
5.	Vibratory Road Roller (02 No.)	1	
6.	Water Bowser Truck (02 No.)	2	
7.	Tractor with Front and Back Blade (02 No.)	1	
8.	Loader (03 No.)	2	
9.	Tractor Trolley (02 No.)	2	
	Sub-Total of Tools & Plants	20	

Note:

- For qualification of the Bidder (Single Entity/JV/Consortium), Minimum 65% marks are necessary in each category and Minimum 70% overall marks are necessary for qualification requirement as per criteria given in Schedules – K & L to Bid.
- In case of JV/Consortium, the lead member must secure at least 50% marks in each category. If Lead partner fails to achieve the minimum 50% passing marks in any category of Schedule K & L will not be evaluated further and will be considered as technically failed overall.

3. PERSONNEL QUALIFICATION AND EXPERIENCE

Sr. #	DESCRIPTION	MAX MARKS	REMARKS
i)	Graduate Engineers		
a	01 No. of Professional Civil Engineers with at least 10 years of overall experience each. (3 marks)	3	Add CV / PEC verification / proof of employment with firm. No marks if required documents are not attached.
b	02 Nos. of Registered Civil Engineer with at least 05 years of experience. (2.5 mark for each)	5	Add CV / PEC verification / proof of employment with firm. No marks if required documents are not attached.
ii)	DAE Associate Engineers		
a	Associate Engineers (DAE) with at least 8 years' experience: • 04 No. Civil (0.5 marks for each)	2	Add CV / proof of employment with firm. No marks if required documents are not attached.
b	02 Nos. of Surveyors (At least 1 Year diploma/certificate) with at least 5 years of experience (2.5 marks for each)	5	Add CV / proof of employment with firm. No marks if required documents are not attached.
	Sub-Total of Personnel Capabilities	15	

Note: No marks if required documents are not attached.

- For qualification of the Bidder (Single Entity/JV/Consortium), Minimum 65% marks are necessary in each category and Minimum 70% overall marks are necessary for qualification requirement as per criteria given in Schedules – K & L to Bid.
- In case of JV/Consortium, the lead member must secure at least 50% marks in each category. If Lead partner fails to achieve the minimum 50% passing marks in any category of Schedule K & L will not be evaluated further and will be considered as technically failed overall.



STANDARD FORMS

BID SECURITY

PERFORMANCE SECURITY

LETTER OF ACCEPTANCE

CONTRACT AGREEMENT

DAAB AGREEMENT

FORM OF ADVANCE PAYMENT GUARANTEE

INDEMNITY BOND FOR SECURED ADVANCE

AGAINST MATERIAL BROUGHT AT SITE



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 twenty-eight (28) 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.

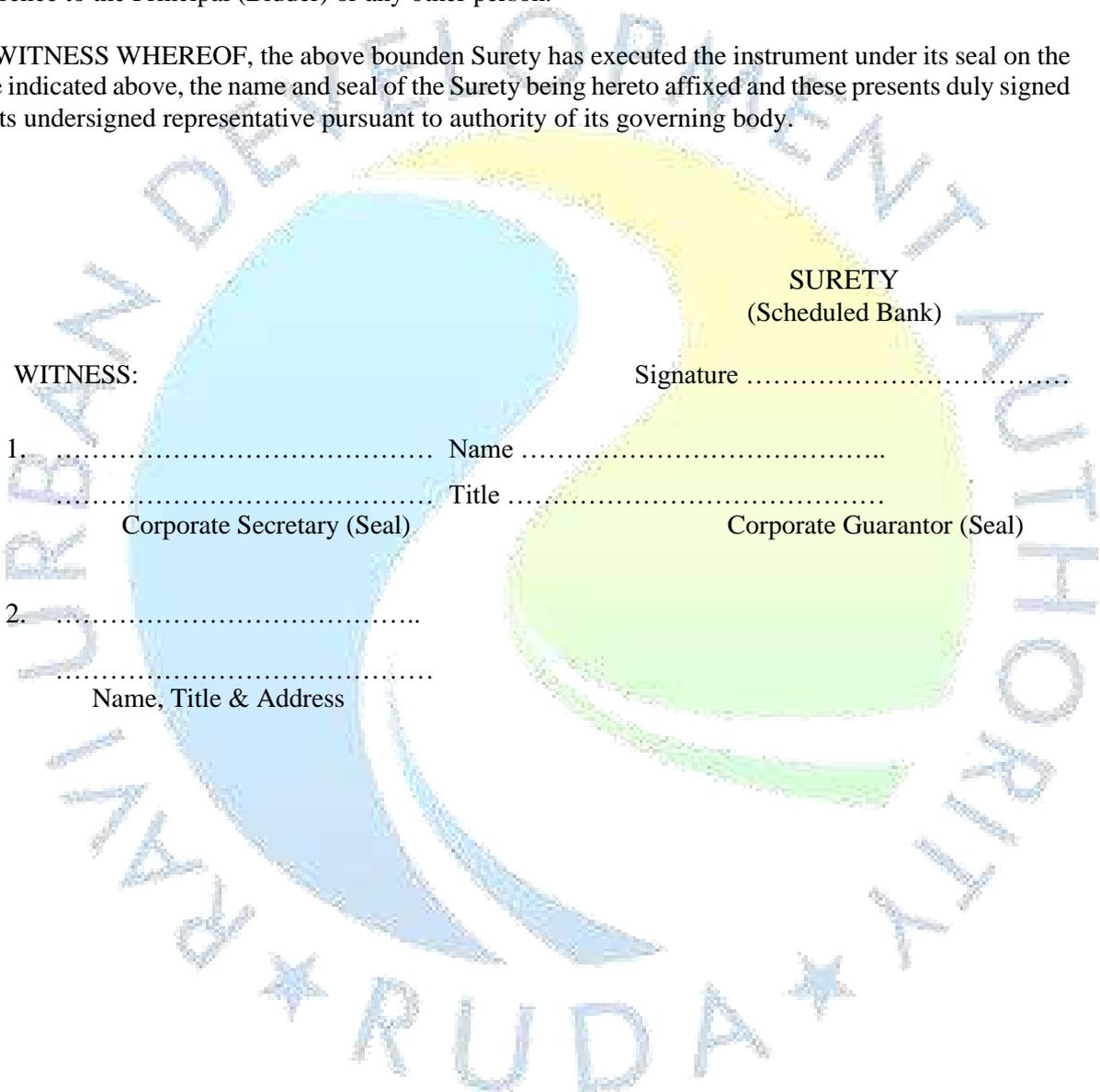


BS-2

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
(Scheduled Bank)

Signature

WITNESS:

1. Name

..... Title

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2.

.....
Name, Title & Address



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 fulfil 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 fulfil 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 the date certified in Taking-Over Certificate issued in accordance with Clause – 10, Employer's Taking Over of Condition of Contract and half of it i.e. (five) 05% of Contract Price, shall remain valid till the time all requirements of Clause11, Defects After Taking Over, of Conditions of Contract are fulfilled.

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



PS-2

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

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

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

WITNESS:

1.
.....
Corporate Secretary (Seal)

2.
.....
Name, Title & Address

Guarantor
(Schedule Bank)

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 datedfor 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) the Contract Agreement;
 - b) the Letter of Acceptance;
 - c) the Letter of Technical Bid & Letter of Price Bid;
 - d) the Particular Conditions Part A - Contract Data;
 - e) the Particular Conditions Part B - Special Provisions;
 - f) the General Conditions of Contract;
 - g) the Bill of Quantities - (Schedule B to Bid);
 - h) the Schedule of Adjustment Data – (Schedule A to Bid);
 - i) Completed Schedule of Bids (C to J);
 - j) the Specification Part A - Specific Provisions;
 - k) the Specification Part B - Technical Provisions;
 - l) the Drawings;
 - m) the JV / Consortium Undertaking (if the Contractor is a JV / Consortium);
 - n) EMP;
 - o) or any other documents.

The addenda/corrigenda, if any, (Excluding part relating to Instructions to Bidders along with **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



DAAB-1

DAAB AGREEMENT

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.

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

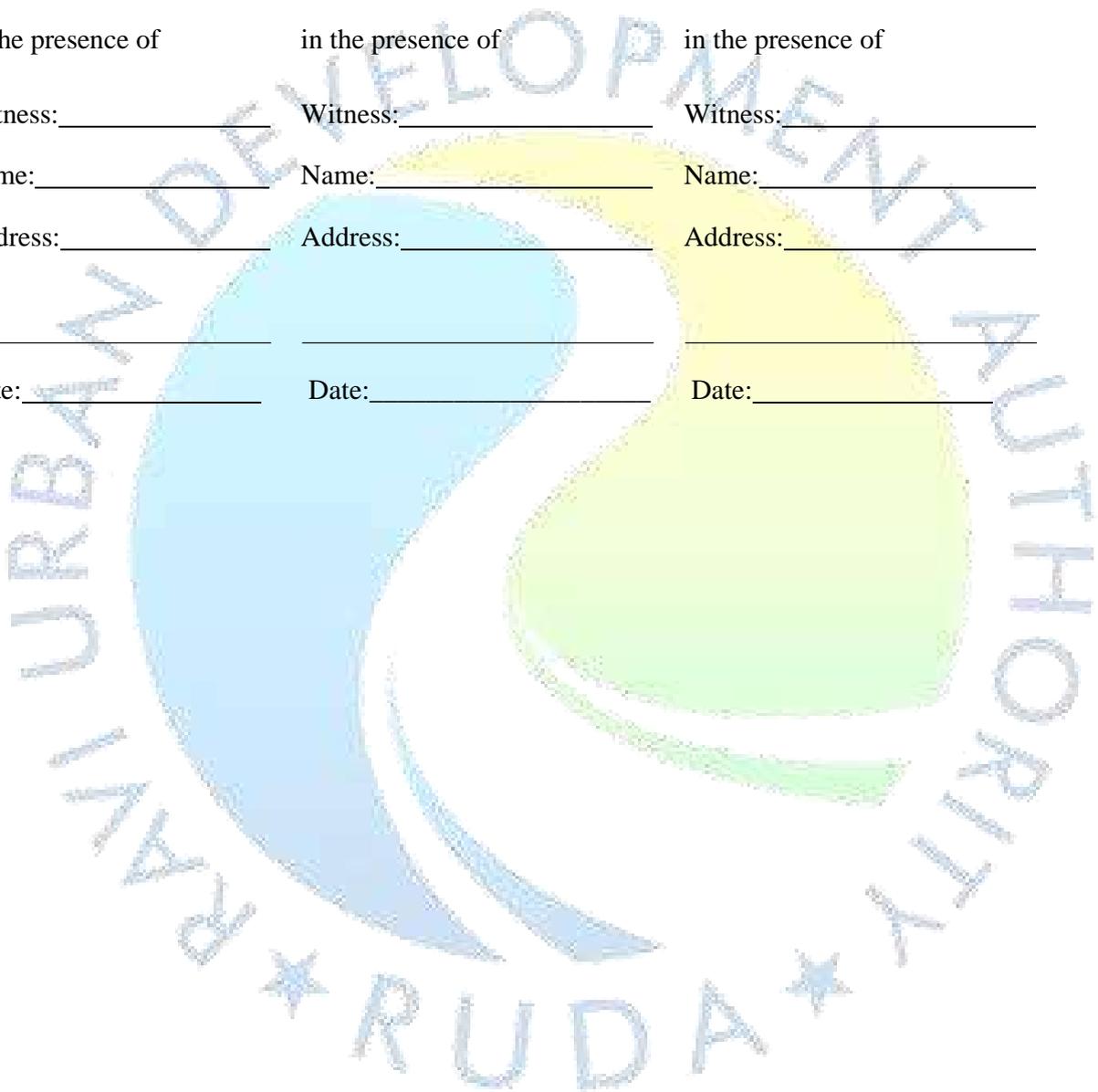
1. The conditions of this DAAB Agreement comprise:
 - (a) Clause 21 [*Disputes and Arbitration*] of the Conditions of Contract, and any other provisions of the Contract that are applicable to the DAAB’s Activities; and
 - (b) the “General Conditions of Dispute Avoidance/Adjudication Agreement”, which 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: _____	SIGNED by: _____	SIGNED by: _____
Print name: _____	Print name: _____	DAAB Member
Title: _____	Title: _____	Title: _____
for and on behalf of the Employer	for and on behalf of the Contractor	

in the presence of	in the presence of	in the presence of
Witness: _____	Witness: _____	Witness: _____
Name: _____	Name: _____	Name: _____
Address: _____	Address: _____	Address: _____
_____	_____	_____
Date: _____	Date: _____	Date: _____





FORM OF MOBILIZATION ADVANCE GUARANTEE/ BOND

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'Employer')

has entered into a Contract for _____

(Particulars of Contract)

with _____ (hereinafter called the "Contractor").

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

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

AND WHEREAS,

(hereinafter called the "Guarantor") at the request of the Contractor and in consideration of 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



MG-2

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

Guarantor
(Scheduled Bank)

WITNESS:

Signature _____

1. _____

Name _____

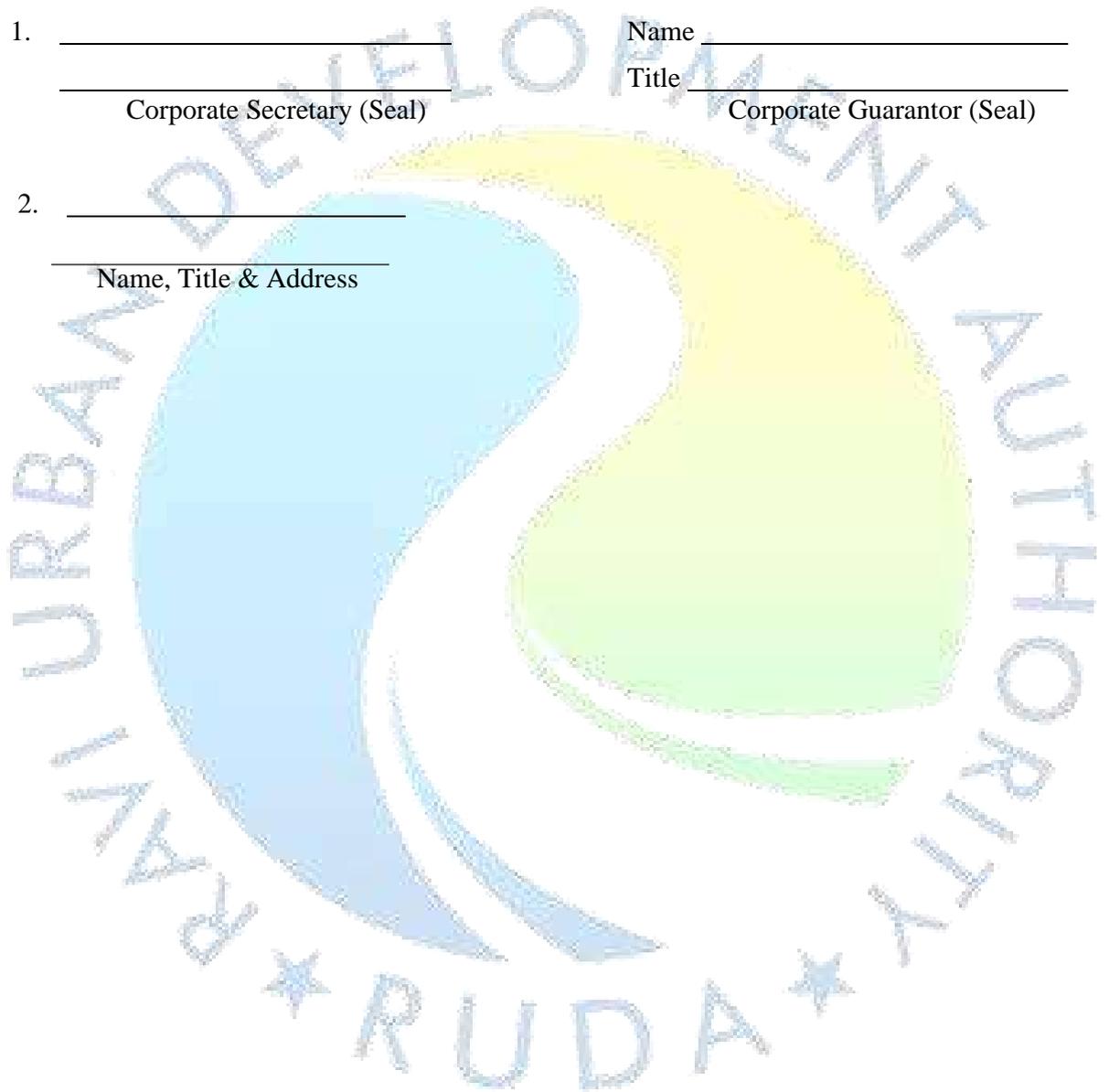
Title _____

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2. _____

Name, Title & Address





IB-1

INDEMNITY BOND FOR SECURED ADVANCE AGAINST MATERIAL BROUGHT AT SITE

(ON RS. 300 NONJUDICIAL STAMP PAPER)

This Deed of Indemnity is issued by M/s. _____ in favour of M/s. _____ Whereas _____ has paid the Secured Advance against the cost of material through any Bank or like agency by any other method by virtue of the terms of the contract existing between the parties. The details of the material and their price for which secured advance is being sought for the period _____ till consumption of the material is as under :-

1. _____ at Rs. _____ per _____ = Rs.
2. _____ at Rs. _____ per _____ = Rs.
3. _____ at Rs. _____ per _____ = Rs.
4. _____ at Rs. _____ per _____ = Rs.

THEREFORE THIS DEED OF INDEMNITY WITNESSETH AS FOLLOWS:

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

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

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

Place _____

Dated _____

Contractor _____



Ravi Urban Development Authority (RUDA)

Volume - I

Construction of Entry Gate and at Grade
Improvement for Entrance at Chahar Bagh
Phase-I

General Conditions of Contract



GENERAL CONDITIONS OF CONTRACT



CONDITIONS OF CONTRACT FOR WORKS OF CIVIL ENGINEERING CONSTRUCTION

GENERAL CONDITIONS

FIDIC

2017 Red Book, Reprinted 2022 with amendments

(To be procured by the Contractor)

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

World Trade Center II - Geneva Airport
P. O. Box 311
CH-1215 Geneva 15 Switzerland
Email: fidic@fidic.org, fidic.pub@fidic.org
Website: <https://fidic.org/bookshop>



**PARTICULAR CONDITIONS
PART A – CONTRACT DATA**

Part A - Contract Data

Sub-Clause	Data to be Given	Data
1.1.27	Defects Notification Period (DNP):	365 days
1.1.31	Employer's name and address:	<i>Name: Ravi Urban Development Authority (RUDA) Address: Engineering Wing of RUDA, 5-C Muslim Town, Facing Canal, Near Punjab Group of Colleges, Lahore.</i>
1.1.35	Engineer's name and address:	To be notified by the Employer
1.1.84	Time for Completion:	180 days for whole of the Works from the Commencement Date.
1.3(a)(ii)	agreed methods of electronic transmission:	<i>Email</i>
1.3(d)	address of Employer for communications:	<i>ED Engineering Engineering Wing of RUDA, 5-C Muslim Town, Facing Canal, Near Punjab Group of Colleges, Lahore.</i>
	address of Engineer for communications:	<i>To be notified by the Engineer</i>
	address of Contractor for communications:	<i>[insert Contractor's address at the time of signing of the Contract]</i>
1.4	Contract shall be governed by the law of:	Islamic Republic of Pakistan
	ruling language:	English
	language for communications:	English
1.6	Contract Agreement	Within 14 days from the date of furnishing of acceptable Performance Security.
1.8	number of additional paper copies of Contractor's Documents:	<i>05 Nos.</i>
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 or as mutually agreed otherwise by the client and the contractor.
2.4	Employer's financial arrangements	<i>Own Source</i>

Sub-Clause	Data to be Given	Data
3.2 (e)(ii)	Engineer's Duties and Authority	Variation resulting in an increase of the Accepted Contract Amount in excess of one percent (1%) subject to accumulative Variations not exceeding five percent (5%) of the Accepted Contract Amount.
4.1	Contractor's General Obligation	Warranty Services
4.2	Performance Security (as percentage of the Accepted Contract Amount in Currencies) Percent: 10% Currency: PKR	Ten percent (10%) of the amount stated in the contract document.
4.2.1	List of Insurance Companies	Insurance companies rated by PACRA/VIS having rating AA (+) is acceptable only.
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	N/A
4.20	number of additional paper copies of progress reports	06 Nos.
5.1(a)	maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount)	Thirty percent (30%) unless otherwise consented by the Employer.
5.1(b)	parts of the Works for which subcontracting is not permitted	N/A
6.5	Normal working hours on the Site	08 Hrs per Day.
8.1	Commencement of Works	<i>Within 07 days from the Engineer's Notice to Commence.</i>
8.3	number of additional paper copies of programmes	03 Number of copies.
8.8 & 14.15(b)	Delay Damages payable for eachday of delay	0.05% of the Contract Price stated in the Letter of Acceptance for each day of delay in completion of the works.
8.8	maximum amount of Delay Damages	Ten percent (10%) of the Accepted Contract Amount stated in the Letter of Acceptance.
8.14	Applicability of Incentives for Early Completion	N/A.
12.3	Percentage profit	Twenty percent (20%)

Sub-Clause	Data to be Given	Data
13.4. (b)(ii)	percentage rate to be applied to Provisional Sums for overhead charges and profit	Twenty percent (20%)
14.2	Total Advance Payment	Total 10% of Contract Price stated in Letter of Acceptance to be paid in two installments as per Sub Clause 14.2.2.
14.2.1	List of Insurance Companies	Companies having rating AA (+) rated by PACRA/VIS.
14.2.3	percentage deductions for the repayment of the Advance Payment	Deduction shall be made at the amortization rate of 10 % of the value of the Works executed of each IPC as provided in paragraph (i) of Sub-Clause GCC 14.3, starting from 3 rd IPC provided that the advance payment shall be completely repaid prior to the time when 85% of the Accepted Contract Amount Less Provisional Sums has been certified for payment. It may be more than 10% in the last installment to ensure full repayment.
14.3	period of payment	28 Days
14.3(b)	number of additional paper copies of Statements	03 Nos.
14.3 (iii)	percentage of retention	Five percent (5%)
14.3 (iii)	Limit of retention money (as a percentage of the Contract Price.	Five percent (5%)
14.5(b)(i)	Plant and Materials for payment when shipped	N/A
14.5(c)(i)	Plant and Materials for payment when delivered to the Site	N/A
14.6.2	minimum amount of Interim Payment Certificate (IPC)	Rs 55 Million
14.7(a)	period of payment of Advance Payment to the Contractor	28 days
14.7b(i)	period for the Engineer to make interim payments to the Contractor under Sub-Clause 14.6 [Interim Payment]	14 days.
14.7b(ii)	period for the Employer to make interim payments to the Contractor under Sub-Clause 14.7.	28 days.
14.7(c)	period for the Employer to make final payment to the Contractor	56 days

Sub-Clause	Data to be Given	Data
14.8	financing charges for delayed payment	N/A
14.11.1(b)	number of additional paper copies of draft Final Statements	05
14.15	currencies of payment of Contract Price	<i>Pak Rupees</i>
14.15(a)(i)	Proportions or amounts of Local and Foreign currencies	N/A
14.15(c)	currencies and proportions for payment of Delay Damages	Pak Rupees
14.15(f)	rates of exchange	N/A
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 other insurances required by Laws and by local practice	i) Five percent (5%) of loss amount on each & every loss ii) Nil iii) Nil iv) Nil v) Nil vi) Nil Nil
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	Yes

Sub-Clause	Data to be Given	Data
	for purpose	
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: <u>as per Third Party Assessment and the number of incidents is unlimited.</u>
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.
21.1	the DAAB shall comprise	_____ "Three Members"
21.1	List of proposed members of DAAB - proposed by Employer	[to be inserted at the time of signing of the Contract] 1. _____ 2. _____ 3. _____
	proposed by Contractor	1. _____ 2. _____ 3. _____
21.2	Appointing entity (official) for DAAB members	CEO Ravi Urban Development Authority from the list of PEC approved arbitrators published at its website
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: Pakistan



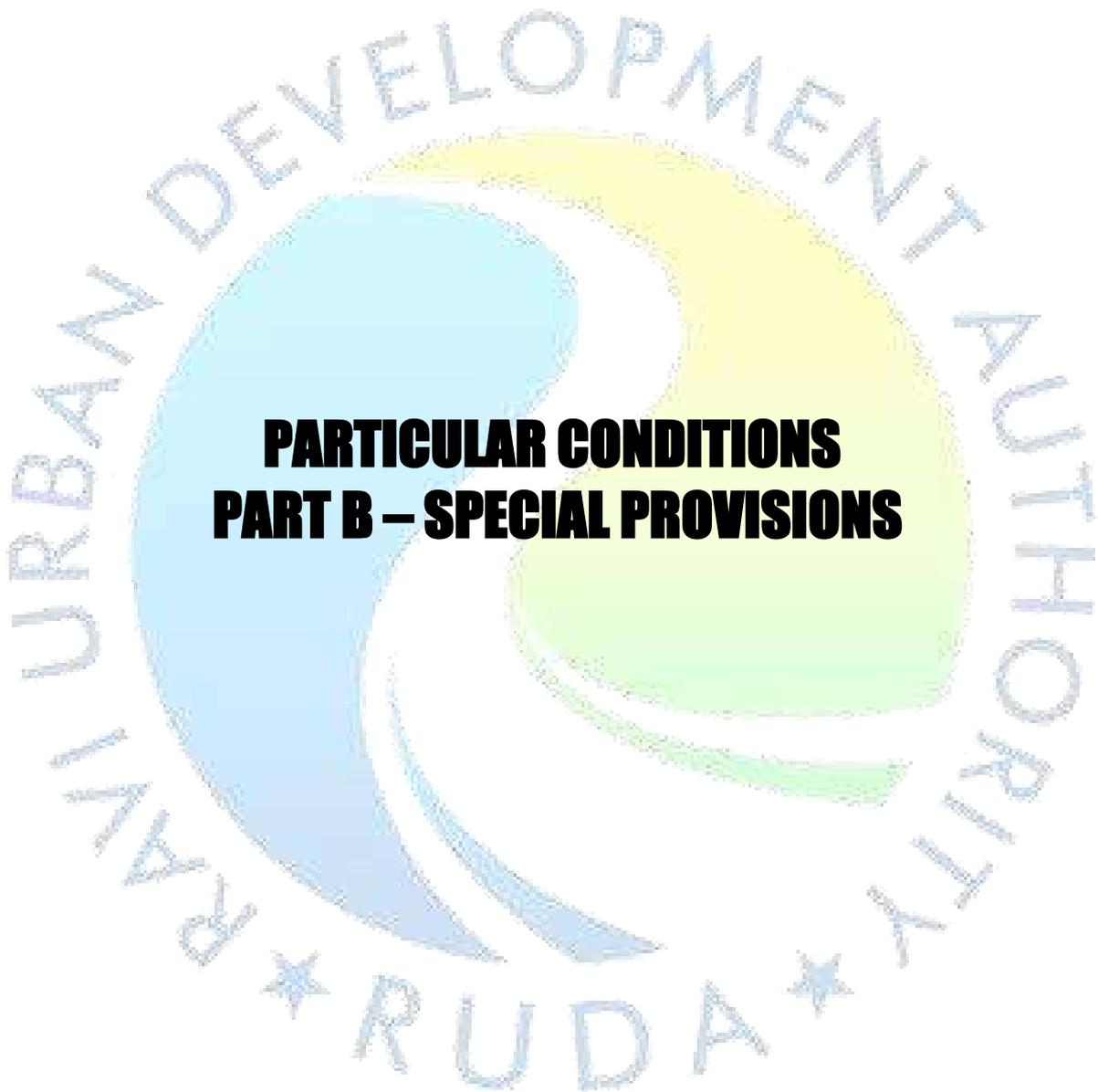
Ravi Urban Development Authority (RUDA)

Volume - I

Construction of Entry Gate and at Grade
Improvement for Entrance at Chahar Bagh
Phase-I



Particular Conditions
Part B – Special Provisions



**PARTICULAR CONDITIONS
PART B – SPECIAL PROVISIONS**



PART B - SPECIAL PROVISIONS

1.1 DEFINITIONS	1
1.2 INTERPRETATION	1
1.5 PRIORITY OF DOCUMENTS	1
1.6 CONTRACT AGREEMENT	2
3.1 THE ENGINEER	2
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PART B - SPECIAL PROVISIONS

1.1 Definitions

1.1.31 The Employer is, Ravi Urban Development Authority (RUDA), Engineering Wing of RUDA, 5-C Muslim Town, Facing Canal, Near Punjab Group of Colleges, Lahore., represented by:

Chief Executive Officer, RUDA

151-Abu Bakar Block, Garden Town, Lahore

1.1.35 The Engineer is a competent person appointed by the Managing Director, NESPAK to act as the Engineer on behalf of National Engineering Services Pakistan (Pvt.) Limited, NESPAK House, 1-C, Block N – Model town Extension, Lahore or any other person appointed by the Employer, and notified to the Contractor, to act in replacement of the Engineer. Provided always that except in cases of professional misconduct, the outgoing Engineer is to formulate his clarifications / recommendations in relation to all outstanding matters, disputes and claims relating to the execution of the Works during his tenure.

1.1.76 “Specifications”

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 Technical Bid & Letter of Price Bid;

- d) the Particular Conditions Part A - Contract Data;
- e) the Particular Conditions Part B - Special Provisions;
- f) the General Conditions of Contract;
- g) the Bill of Quantities - (Schedule B to Bid);
- h) the Schedule of Adjustment Data – (Schedule A to Bid);
- i) Completed Schedule of Bids (C to J);
- j) the Specification Part A - Specific Provisions;
- k) the Specification Part B - Technical Provisions;
- l) the Drawings;
- m) the JV / Consortium Undertaking (if the Contractor is a JV / Consortium);
- n) or any other documents.

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 first line of the first paragraph, the text “35 days” is replaced with “14 days”

In the last line of the 1st paragraph the text “shall be borne by the Employer” is substituted by “shall be borne by 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 acting 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].

Engineer under Sub-Clause 3.7 [Agreement or Determination], as stated in Sub-Clause 3.2 [Engineer's Duties and Authority] of the General Conditions.

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

Following is added after the words "the Employer's consent is required" in 4th paragraph:

"Stating that the Employer's consent has been obtained for that specified authority"

4.2 Performance Security

4.2.1 "Contractor's Obligation"

The first paragraph of this sub-clause is deleted and replaced with the following text:

The Contractor shall provide Performance Security to the Employer in the prescribed form. The said Security shall be furnished or caused to be furnished by the Contractor within 7 days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 10% of the Contract Price stated in the Letter of Acceptance.

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.

Such Security shall be in the form of:

- i. Ten (10) percent of the Contract Amount in the form of (a) bank guarantee from any Scheduled Bank in Pakistan or (b) bank guarantee from a bank located outside Pakistan duly counter-guaranteed by a Scheduled Bank in Pakistan or Insurance Guarantee by a AA (+) rated company PACRA/VIS.

Performance Security for the full amount of 10% shall remain valid till the date certified in the Taking Over Certificate (TOC) and half of it i.e., 5% shall be released upon issuance of TOC. Thereafter, the Performance Security for the amount of 5% arranged bank guarantee shall remain valid till the issuance of Performance Certificate.

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

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

4.4 Contractors Documents.

"4.4.2 As-Build Record"

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

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

The Contractor shall:

- Prevent all road accidents that might arise as a consequence of its activities;
- Adhere to the following principles of Environmental Management Guidelines;
- Adhere to guidelines issued by EPA Punjab;
- All the quarterly testing as per EPA standards shall be borne by the Contractor;
- Minimize gaseous emissions, liquid effluents and discharge of solid waste that is known to have a negative impact on the environment;
- Within fourteen (14) days of the commencement date the Contractor shall submit his (Project Health and Safety Plan) to the Engineer review, He should nominate the key person in his organization who will be responsible for administrating the plan;
- 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 authorise 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;

- All employees shall be physically qualified for performing the duties to which they are assigned, Operators of equipment and vehicles shall be qualified (licensed) they shall be able to read and understand the signs, signals and operating instructions in use;
- Contractor shall protect all people involved with or potentially affected by its operation from the adverse consequences of fire or explosions and shall safeguard all Engineer's assets to a level commensurate with their critically;
- Contractor must also provide adequate protective clothing and equipment PPE's to prevent, so far reasonably practicable risk of accidents or adverse effect on safety and health;
- Contractor is required to ensure that, so far as is reasonably practicable, the workplace, machinery, equipment and process under control are safe and without a risk to health;
- Prior to start of work, Contractor must provide measures to deal with emergencies and accidents, including adequate first aid arrangements, in the ratio of one (01) unit each twenty-five (25) persons or less, also and emergency vehicle, doctor and equipped clinic in case of exceeding 500 workers or providing private personnel health card for each worker at close clinic to the project as per prevailing Pakistan Labour Law;
- Contractor shall recognize the responsibility to protect the environment in order that the future well-being of society is safeguarded and make every effort to minimize the impact of its operations on the environment and people;
- Contractor's liability insurance should satisfy requirements to carry appropriate insurance so that a worker who is harmed is assured of receiving compensation. Other cost that be incurred relate to:
 - Damage to properties, goods and equipment
 - Accident investigations
 - Possible fines and associated legal fees
- Qualified and experienced safety officers and the number of officers and safety staff that comply to international safety practices as applicable, one officer for each 150 workers shall be deployed at the site;
- The Contractor and his supervisors/foremen are responsible for administration of comprehensive Project HSE plan. The Project HSE Plan shall embody prevention of accidental injury, occupational illness and property damage. The Contractor shall provide and maintain a safe hazard

free workplace for their employees, for fellow workers and general public. The project HSE plan shall ensure the involvement and active participation of all project employees by requiring safety training, which shall promote recognition of unsafe acts, unsafe conditions and potential and actual hazards, and the immediate corrective action to be taken. All the employees shall be constantly aware of their responsibilities to work in a safe manner;

- The Contractor shall identify the hazards involved in the Project during the Contract execution and shall implement the necessary controls to eliminate or mitigate these hazards.
- Expeditious response in case of injury, fire, security and natural disaster etc. to be ensured;
- Water sprinkling within the Project boundary to be ensured on as required basis;
- Adequate number of manpower to be deployed depending upon the weight and extent of the material/equipment to be lifted;
- Fall protection above 1.8 m (6 ft.) to be provided with guard / handrails, full body harness and safety nets;
- Guard rails and toe boards above 20 m (65 ft.) required to cordon off the Project site to be provided;
- Scaffolding and ladder not to be used without approval from safety staff;
- Angle of repose to be calculated and implemented where the depth of excavation exceeds 1.2 m;
- Drilling bore holes and pits to be covered and barricaded;
- Noise exceeding 85 dBA to be avoided for daily exposure and 140 dBA for peak exposure, Ear plugs and earmuffs to be ensured for peak exposure;
- 3-wire type extension cords to be used for electrical works and worn electrical cables to be discarded;
- Waste disposal at Government approved locations to be done on daily basis.

Notwithstanding the provisions contained under this Sub-Clause, any additional cost with regard to HSE as incurred by the Contractor with the consent of the Engineer duly approved by the Employer, shall be payable to the Contractor.

4.20 Progress Report

At the start of sub-paragraph (a) add “Executive summary, Contract Startup Activities, salient contractual and project information,”

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;
- (k) Risk Management;
- (l) Performance Security / Guarantees & Insurances Details;
- (m) Change Management;
- (n) Financial Management;
- (o) Completion of Works and Contract Closure;
- (p) Drone Video Progress Documentary; and
- (q) Time Lapse & Real Time Web Based Progress Centre.

During the period of the Contract, the Contractor shall keep a daily record of the work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment.

1. Drone Video Progress Documentary:

The Contractor shall document the entire project development from various position and capture a complete video documentary on monthly basis with high resolution drone cameras. Properly comprehensive progress video as required by The Engineer/Employer.

Drone video Progress Documentary must be submitted on Monthly Basis as per satisfaction of The Engineer/Employer along with Monthly Progress Report on 8th Day of Each Month.

2. Time Lapse & Realtime Web Based Progress Centre

The Contractor shall document the entire project development and project assets from various static angles by placing several Time-Lapse high resolutions cameras and setup an un-interrupted web-based progress centre.

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 Food stuffs

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 labor 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 labor, such as indentured labor, bonded labor or similar labor-contracting arrangements.

6.22 Child Labour

The Contractor, including its Subcontractors, shall not employ or engage child labor 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 Worker's Organization

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. Contractor shall be responsible for transportation of equipment / plant at site. It will be the responsibility of contractor to ensure the safety of delivered equipment / plant at site. Employer will in no case be held liable for any damage or loss of equipment delivered or erected at site. Moreover, contractor will not be allowed to relocate or install the delivered equipment / plant without the permission of Employer. 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:

7.9 Use of Pakistani Materials and Services

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

8.1 Commencement of Works

The following is added before the first paragraph:

"After signing of the Contract Agreement by both Parties," and thereafter the word "The" is replaced with the word "the".

The words "14 days" in the second line of the first paragraph are deleted and replaced with the words "7 days".

8.3 Programme

The following text is added after the first paragraph:

The initial programme and each revised programme shall be:

- 1) Developed and presented on Project Management Software Primavera Project Planner P6 or later.
- 2) Developed on the basis of Work Breakdown Structure provided or approved by The Engineer/Employer.
- 3) Detailed up to level 4 or as required by The Engineer/Employer.
- 4) Appropriate quantity of direct resources (material, labour, equipment) should be allocated to all activities and showed in submitted construction schedule. Labour resource should be divided according to related trades

(e.g. Mason, Operator, helper etc.) Contractor should make sure that no resource is being overallocated.

- 5) BOQ amount should be loaded to each construction activity. Earned Value Management Reporting to be ensured accordingly.
- 6) Identifying the critical path activities, showing all works including temporary works, the relation between early and late starting dates for each activity until completion, which will be the same as the specified Project end date.

8.5 Extension of Time for Completion

The following is added after the first paragraph (c):
“For last five years”.

12.2 Method or Measurement

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

“Summary of measured quantity for payment shall be delineated item-wise under four heads namely; “Schedule of Prices Quantity”, “Quantity Executed To-date”, “Quantity Certified Previously” and “Net Quantity Executed under this Certificate”.

12.3 Valuation of the Works

In sub-paragraph (b)(i) the text “10%” is deleted and replaced with the text “25%”.

The text of the sub-paragraphs (b)(ii) and (b)(iii) are deleted.

The sub-paragraph (b)(iv) shall be read as sub-paragraph (b)(ii).

The following text is added at the end of sub-paragraph (b):

“If, on the issue of the Taking-Over Certificate for the whole of the Works, it is found that as a result of:

- (a) all varied work valued under this Sub-Clause and Sub-Clauses 13.1, 13.2, and 13.3,
- (b) all adjustments upon measurement of the estimated quantities set out in the Bill of Quantities, excluding Provisional Sums, dayworks and adjustments of price made under Clause 13.7,
- (c) but not from any other cause, there have been additions to or deductions from the Contract Price which taken together are in excess of 15 per cent of the "Effective Contract Price" (which for the purposes of this Sub-Clause

shall mean the Contract Price, excluding Provisional Sums and allowance for dayworks, if any) then and in such event (subject to any action already taken under any other Sub-Clause of this Clause), after due consultation by the Engineer with the Employer and the Contractor, there shall be added to or deducted from the Contract Price such further sum as may be agreed between the Contractor and the Engineer or, failing agreement, determined by the Engineer having regard to the Contractor's Site and general overhead costs of the Contract. The Engineer shall notify the Contractor of any determination made under this Sub-Clause, with a copy to the Employer. Such sum shall be based only on the amount by which such additions or deductions shall be in excess of 15 per cent of the Effective Contract Price.

The text of the fifth paragraph is deleted and replaced with the following:

“Each new rate or price shall be derived from any relevant rates or prices specified in the Bill of Quantities. If altered, additional or substituted work includes any item of work, for which no rate is specified in the Bill of Quantities (BOQ) of this Contract, then the rate of that particular item shall be taken or derived from the Market Rates System (MRS) (input rates), Government of the Punjab at the time of Bidding. If the rate of such item is either not available in MRS or not derivable from MRS input rates, then that rate shall be probed by the Engineer on the basis of market rates, together with the applicable percentage of overhead charges and profit of twenty percent (20%).

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*).”

14.2 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 for the amount of the Total Advance Payment in accordance with Sub-Clause 14.2.

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.

14.2.2 Advance Payment Certificate

The text of the first paragraph of the Sub-Clause is deleted and replaced with the following text:

“The Employer shall sanction an interest free Advance Payment equal to Ten percent (10%) of the Contract Price stated in the Letter of Acceptance. Initially, the Engineer shall issue an Advance Payment Certificate equal to Five percent (5%) for the advance payment within 28 days after:

The text of sub-paragraph (a) is deleted and replaced with the following text:

- i. submission of the Performance Security, in the form and issued by an entity in accordance with Sub-Clause 4.2.1 [*Contractor's Obligations*];
- ii. signing of the Contract Agreement between the Parties in accordance with Sub-Clause 1.6 [*Contract Agreement*];
- iii. the Advance Payment Guarantee for the Total Amount of the Advance Payment, in the form and issued by an entity in accordance with Sub-Clause 14.2.1 [*Advance Payment Guarantee*];
- iv. submission of initial programme under Sub-Clause 8.3 [*Programme*];”

The word “and” at the end of the sub-paragraph (a) is deleted.

The character “.” at the end of sub-paragraph (b) is deleted and replaced with the character “;”

Following sub-paragraphs (c) & (d) are added after sub-paragraph (b):

- (c) A further sum equal to five percent (05%) of the Contract Price shall be paid to the Contractor upon the certification of the Engineer to the effect that Contractor's mobilization is complete in the following aspects and he is ready to commence the works:

- i. Approval of initial programme under Sub-Clause 8.3 [Programme];
- ii. Provision of machinery and equipment at the Site, as instructed by the Engineer.
- iii. Submission of a statement indicating status / plan / commitment for mobilization / hiring / purchase of remaining machinery.
- iv. Completion of facilities to be provided to the Engineer or the Engineer's Representative as per Contract Document.
- v. Submission of all guarantees as required by the Contract.
- vi. Establishment of Employer's, Engineer's and Contractor's site office.
- vii. Deployment of Contractor's technical as well as managerial staff as per requirement of site.
- viii. Proper taking over of the site.
- ix. Installation of project boards at all ends.
- x. Completion of safety arrangements for the traffic and public in general.
- xi. The Advance Payment shall not be subject to retention; and

(d) the Engineer has received a copy of the Contractor's application for the second tranche of advance payment under Sub-Clause 14.2.1 [Advance Payment Guarantee].

14.6 Issue of IPC

14.6.1 The IPC

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

14.7 Payment

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

14.8 Delayed Payment

The text of this Sub-Clause is deleted in its entirety.

14.16 Secured Advance on Materials

(a) The Contractor shall be entitled to receive from the Employer, Secured Advance against an indemnity bond acceptable to the Employer of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the Site but not yet incorporated in the Permanent Works provided

that:

- (i) The materials are in accordance with the Specifications for the Permanent Works;
 - (ii) Such materials have been delivered to the Site and are properly stored and protected against loss or damage or deterioration to the satisfaction of the Engineer but at the risk and cost of the Contractor;
 - (iii) The Contractor's records of the supplies, orders, receipts and use of materials are kept in a proper format and such records shall be available for inspection by the Engineer;
 - (iv) The Contractor shall submit with his monthly statement the estimated value of the materials on Site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore;
 - (v) Ownership of such materials shall be deemed to vest in the Employer and these materials shall not be removed from the Site or otherwise disposed of without written permission of the Employer; and
 - (vi) The sum payable for such materials on Site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of other materials.
- (b) The recovery of Secured Advance paid to the Contractor under the above provisions shall be affected from the monthly payments on actual consumption basis.
- (a) No secured advance under this clause shall be admissible except in respect of the following items:
- (i) Cement
 - (ii) Steel
 - a. M.S Bars (Plain & Deformed)
 - b. M.S. Sections
 - c. High Tensile Steel Wire.
 - d. M.S. & G.I. Pipes.
 - e. M.S. & G.I. Sheet.
 - f. C.I. Specials.
 - (iii) Asbestos Cement Pipes.
 - (iv) P.V.C./uPVC Pipes.
 - (v) PPRC Pipes.
 - (vi) HDPE Pipes.
 - (vii) R.C.C./P.C.C. Pipes.
 - (viii) Bitumen.
 - (ix) High Speed Diesel.
 - (x) Bricks.

- a. 1st Class Bricks.
- b. Tiles.
- c. Gutka.
- (xi) Stone aggregates
 - d. Stone Metal for Sub Base.
 - e. Stone Metal for Base Course.
 - f. Crushed Bajri.
- (xii) Harrow Sand
- (xiii) Tiles (Ceramic and Porcelain)
- (xiv) Wood
- (xv) Aluminum Sections
- (xvi) Paint (Interior & Exterior)
- (xvii) Labour

14.17 Payment of Items with Imbalance Rates

"If the Contractor quotes unit rates in the Bill of Quantities that significantly deviate from the rates provided in the Technically Sanctioned Estimate, the following payment mechanism shall apply:

- For items where the quoted rates are lower than the rates in the Technically Sanctioned Estimate, payment shall be made in full at the tendered rate upon execution of such items.
- For items where the quoted rates are 10% higher than the rates in the Technically Sanctioned Estimate, payment shall be made at the rates specified in the Technically Sanctioned Estimate upon execution of such items.
- The balance payment for items with higher rates shall be withheld by the Engineer until the completion of all works associated with the lower-rate items to ensure proper execution.

The Engineer's determination regarding imbalanced rates and corresponding payment adjustments shall be final and binding, subject to dispute resolution under Clause 21."

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 accordance with RUDA Procurement Regulations."

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.

17.1 Responsibility for Care for 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 Consequence of an Exceptional Event

The following is added at the end of sub-paragraph (b) after deleting the “.”:

“,including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Exceptional Events, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 19.2 (*Insurance to be provided by the Contractor*).”

18.5 Optional Termination

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

19.1 General Requirements

Following text is added at the end of first paragraph:

“The Contractor shall immediately after the date of the Letter of Acceptance submit the draft of insurance policies for the Employer’s consent.”

Following text is added at the end of third paragraph:

“The Contractor shall, within the respective periods stated in the Contract Data submit to the Engineer and the Employer a) evidence that the insurances described in this Clause have been effected, and b) copies of policies of the insurances described in Sub-Clauses 19.2.1, 19.2.4 and 19.2.5.”

19.2 Insurance to be Provided by the Contractor

19.2.5 Injury to employees

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

The following Sub-Clause is added after Sub-Clause 19.2.6:

19.2.7 Insurance Company

“The Contractor shall be obliged to place all insurances described in this Clause with insurers listed in the Contract Data and rated by PACRA/VIS of AA(+) rating.

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:

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 Pact

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

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

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





Ravi Urban Development Authority

RAVI RIVERFRONT URBAN DEVELOPMENT PROJECT



CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

JANUARY 2026

BIDDING DOCUMENTS – VOLUME II

Bill of Quantities



National Engineering Services Pakistan (Pvt.) Limited

Clearance Code	4678/13/BD/0126	Doc. No.	4678 – 02	Rev No.	00
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BILL OF QUANTITIES (BOQ)

PREAMBLE

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in BOQ 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 entered in the BOQ and price finalized in the Contract, where applicable, and otherwise at such rates and prices as the Engineer may fix as per Contract.
3. The rates and prices entered in the Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all the cost of Contractor's plant, labor, supervision, material, execution, insurance, profit, taxes and duties, together with all general risk, 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 month during which the last date of submission of bids falls, shall be included in the rates & prices and the total Bid price submitted by the Bidder.
4. A rate or price shall be entered against each item in the 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.

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

COST ESTIMATE SUMMARY

Bill No	Description of Work	Amount in (Rs.)
A	At Grade Improvement	
B	Entry Gate	
C	Toll Plaza	
D	Electrical Works	
	TOTAL CONSTRUCTION COST	
	PST @16% of Construction Cost	
	TOTAL COST	

RAVI URBAN DEVELOPMENT AUTHORITY

**CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE
AT CHAHAR BAGH PHASE-I**

AT GRADE IMPROVEMENT

SUB SUMMARY (A)

Bill No	Description of Work	Amount in (Rs.)
1	Earthwork and Allied Activities	
2	Sub-base & Base Course	
3	Surface Courses & Pavement	
4	Ancillary Works	
5	Drainage Works	
6	Dismantling of Existing Structure	
	TOTAL CONSTRUCTION COST	

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

AT GRADE IMPROVEMENT

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 1	Earthwork and Allied Activities				
1	Jungle clearance and removing within 100 ft. (30 m). a) Ordinary	1000 Sft	12,589.00		
2	Earthwork excavation undressed lead upto a single throw of Kassi, phaorah or shovel:- b) In ordinary soil.	1000 Cft	13,490.00		
3	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture content in layers, etc. complete: i) 95% to 100% maximum modified AASHTO dry density. ii) 90% maximum modified AASHTO dry density.	1000 Cft 1000 Cft	42,555.00 18,258.00		
4	Earthwork in ordinary soil for embankments, including ploughing, mixing and compaction by mechanical means at optimum moisture content and dressing to designed section including all lead and lift, complete in all respects:- (Local Earth) i) 95% to 100% maximum modified AASHTO dry density ii) With 90% Compaction of AASHTO dry density.	1000 Cft 1000 Cft	30,124.00 12,925.00		
5	Earthwork in ordinary soil for embankments, including ploughing, mixing and compaction by mechanical means at optimum moisture content and dressing to designed section including all lead and lift, complete in all respects:- (Borrow Earth) i) 95% to 100% maximum modified AASHTO dry density ii) With 90% Compaction of AASHTO dry density.	1000 Cft 1000 Cft	22,778.00 9,747.00		
6	Providing and laying good quality / local sand cushion from approved source (compacted in layers not exceeding 6" thickness) by mechanized means including the cost of front end loader, vibratory roller and all lead and lifts, dressing, watering complete in all respect as approved and directed by the Engineer Incharge	Cft	10,806.00		
7	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).	100 Sft	22,338.00		
Total Cost					

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

AT GRADE IMPROVEMENT

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 2	Sub-base & Base Course				
1	Providing and laying sub-base course of stone product of approved quality and grade, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density, including carriage of all material to site of work except gravel and aggregate.				
	ii) Crushed stone aggregate.	100 Cft	36,875.00		
2	Reused sub base	100 Cft	24,255.00		
3	Providing and laying (WBM) base course of crushed stone aggregate of approved quality and grade, and supply and spreading of stone screening, including placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHO dry density, including carriage of all materials to site of work except gravel and aggregate.	100 Cft	86,345.00		
Total Cost					

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

AT GRADE IMPROVEMENT

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No.3	Surface Courses & Pavement				
1	Providing and laying bituminous priming coat, using 10 lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kg kerosene and 0.5 Kg binder per square metre.	100 Sft	86,306.00		
2	(Asphaltic Base Course) Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. iii) 4% Bitumen	Cft	35,986.00		
3	Providing and laying bituminous tack coat, using 10 lbs. of bitumen per 100 Sft (0.49 Kg of bitumen per sq.m.)	100 Sft	172,633.00		
4	(Asphaltic Wearing Course) Providing and laying plant premixed bituminous carpet, including compaction and finishing to required camber, grade and density. iv) 4.5% Bitumen	Cft	14,373.00		
Total Cost					

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

AT GRADE IMPROVEMENT

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 4	Ancillary Works				
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m). b) By Excavator ii) Ordinary soil	1000 Cft	34,609.00		
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8	100 Cft	3,496.00		
3	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, pouring with pump in the required proportions to achieve a nominal cylindrical strength in the field as per ACI214, with the specified consistency. i/c the cost of shuttering, compaction with Viberator, excluding the cost of Admixture, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Raft, Strip and Footing Beams) (iv) 4000 PSI	Cft	16,210.00		
4	(b) Retaining/ Shear walls laid in situ or precast laid in position, or prestressed members cast (Formwork on both sides) (ii) More Than 9" Thick 4000 PSI	Cft	13,490.00		
5	Providing and laying Kerb Block / RCC Barrier of Concrete having compressive strength of 4000 PSI of required size with Slip form Paver/ power kerber machine, batching plant, excluding the cost of additive / super plasticizer, steel reinforcement and its labour for bending and laying in position as specified etc complete in all respect. b) R.C.C Barrier (i) Single Face	Cft	10,012.00		
	(ii) Double Face	Cft	4,005.00		
6	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) Deformed bars (ii) (Grade-60)	Tons	121.97		
7	Bitumen coating to plastered or cement concrete surface:- i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	100 Sft	13,805.00		
8	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect (50% Grey / 50% Coloured)				

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

AT GRADE IMPROVEMENT

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	b) 50-mm thick	Sft	9,996.00		
9	Painting Traffic Lane Marking of specified width (1.5mm thick), with Thermoplastic (TP) Paint including Glass Beads, complete in all respect, as approved and directed by Engineer incharge. ii) (6" wide)	Rft	10,899.00		
10	Painting Arrows & Zebra crossings (1.5mm thick), with the Thermoplastic (TP) Paint including Glass Beads, complete in all respect.	Sft	1,787.00		
11	Providing & fixing Cat Eyes of size 4" x 4" x 3/4" duly casted with specified material having plastic strip containing mini retro-reflective glass beads of color white/ red/ yellow having specifid reflections, quality & shape i/c the cost of self built in 12mm dia x 120mm long steel zinc plated nail, fixing to road with epoxy/ hammering with separate nail complete. a) Acrylic material (2) Uni-Directional (ii) 43 Glass beads a side	Nos	1,580.00		
12	Providing & fixing Road Studs of aluminium alloy (raised profile) of specified size with Diamond grade reflectors on both sides etc complete. b) Dual- Directional (ii) 6" x 4" x 1.75"	Nos	79.00		
13	Providing and fixing precast Edge Kerb Stone (100mm to 150mm thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc. Complete in all respect. b) With Painting (iii) (300x150x450mm high)	Rft	4,200.00		
14	Providing, fabrication and fixing pole mounted Direction Board / road delineator of any shape and size, with specified Sheet and thickness, supported with G.I Channel, (excluding the cost of vertical post and painting) etc complete in all respect. (A) G.I Sheet 14 SWG i) CIRCULAR/TRIANGULAR				
	a) 3-4 ft size	Sft	75.00		
15	Providing, fabrication and fixing pole mounted Direction Board / road delineator of any shape and size, with specified Sheet and thickness, supported with G.I Channel, (excluding the cost of vertical post and painting) etc complete in all respect. ii) RECTANGULAR SHAPE				
	(a) 12 -48 sft	Sft	65.00		
16	If 3mm thick Aluminium sheet is used instead of G.I Sheet, following composite rates shall be added.				
	a) 3-4 ft size	Sft	75.00		
	(a) 12 -48 sft	Sft	65.00		
17	Providing, fabrication and fixing Vertical Post comprising of medium quality G.I Pipe of specified diameter, including the cost of clamping arrangements, top cover, hold fasts, PCC 1:2:4 footing of specified depth and excavation etc complete in all respect, as approved and directed by the engineer incharge				
	(b) 3 inch diameter (footing 1.5'x1.5'x5')	Rft	33.00		
	(c) 4 inch diameter (footing 1.5'x1.5'x6')	Rft	33.00		
	(d) 5 inch diameter (footing 1.5'x1.5'x6')	Rft	39.00		

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

AT GRADE IMPROVEMENT

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
18	<p>Providing and fixing full width/ Portal Sign Gantry comprising of 3 mm thick GI sheet (Z-275) fixed over double front and back truss made with Top & bottom chords of MS angle iron L-100x100x10 mm, webs and struts of L-65x65x8 mm welded with top and bottom truss of webs and struts of 65x65x8 mm duly supported on specified vertical posts duly welded with Base plate of 600x400x50 mm with MS stiffners of 350x150x15 mm thick MS sheet for each column fixed in prelaidd RCC footing i/c the cost of polyurethane Paint to MS skeleton but excluding the cost of lettering/printing as approved and directed by the Engineer Incharge.</p> <p>II Double Columns MS pipe of size 7500 x 457 x 12.5 mm thick</p> <p>a) Two Supports</p> <p>i. Four Lane</p>	Sft	1,194.00		
19	<p>Lettering and printing of signage/ direction boards/ road delineators of any colour by machine i/c cost of Digital Lettering, Lamination & pasting etc. Complete in all respect.</p> <p>b) Diamond Grade Tape</p>	Sft	742.00		
Total Cost					

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

AT GRADE IMPROVEMENT

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 5	Drainage Works				
1	Earthwork excavation in open cutting for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:- 1) Upto 5' (1.5 meter) depth 1) Upto 5' (1.5 meter) depth B) By Mechanical means Ordinary	1000 Cft	9,550.00		
2	Supplying and filling sand under floor or plugging in wells	100 Cft	3,123.00		
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8	100 Cft	2,453.00		
4	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, pouring with pump in the required proportions to achieve a nominal cylindrical strength in the field as per ACI214, with the specified consistency. i/c the cost of shuttering, compaction with Viberator, excluding the cost of Admixture, as approved and directed by the Engineer Incharge.				
	(a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:- (iv) 4000 PSI	Cft	8,650.00		
	(b) Retaining/ Shear walls laid in situ or precast laid in position, or prestressed members cast (Formwork on both sides) (ii) More Than 9" Thick 4000 PSI	Cft	5,004.00		
	(c) Substructure (Foundations, Raft, Strip and Footing Beams) (iv) 4000 PSI	Cft	9,400.00		
5	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) Deformed bars (ii) (Grade-60)	Tons	89.94		
6	Bitumen coating to plastered or cement concrete surface:- i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	100 Sft	13,838.00		
7	Providing and embedding 10" (250mm) wide PVC water stopper in expansion joints of RCC structures (Retaining walls, water tanks, Slabs) complete in all respect. 10mm Thick	Rft	2,290.00		

RAVI URBAN DEVELOPMENT AUTHORITY**CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I****AT GRADE IMPROVEMENT****BILL OF QUANTITIES**

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
8	Small iron work, such as gusset plates, knees, bends, stirrups, straps, rings, etc. including cutting, drilling, riveting, handling, assembling and fixing; but excluding erection in position.	Kg	196.00		
9	Preparing surface and painting with Matt/Glossy high chemical resistant/hard wearing Polyurethane paint (Epoxy Paint) by sprayer / Brush i/c the cost of Primer coat , all material and labour complete in all respects as approved and directed by the Engineer Incharge. (i) Priming Coat (ii) Each and subsequent Coat (Two Coats)	Sft	56.00		
10	Filling expansion joints with bitumen. sand & saw dust in ratio 1:2:2.	Rft	890.00		
11	Providing, laying, cutting, jointing, testing and disinfecting PVC/ uPVC pipe line with working pressure pipe, in trenches, including specials (PS-3051=BS-3505), complete in all respects:- a) Class-B (6 bar) 4"	Rft	70.00		
12	De-silting including disposal of sludge upto one Chain (30 Meters). a) Open Drain	100 Cft	18,900.00		
Total Cost					

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

AT GRADE IMPROVEMENT

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 6	Dismantling of Existing Structure				
1	Dismantling cement concrete 1:2:4 plain.	100Cft	105.00		
	Dismantling cement concrete plain 1:4:8 plain.	100Cft	3,405.00		
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same.	100Cft	14,610.00		
3	Removal of Kerb Stone	Rft	1,120.00		
4	Dismantling and removing road metalling.	100Cft	12,803.00		
5	Dismantling and removing road pavement, etc., including screening and stacking of byproducts upto one chain lead (30 metre).	100Cft	35,215.00		
6	Removal of unsuitable material from site.	Cft	91,058.00		
7	Recovery of steel	kg	(16,548.00)		
	Total Cost				

RAVI URBAN DEVELOPMENT AUTHORITY

**CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE
AT CHAHAR BAGH PHASE-I**

CHAHAR BAGH ENTRY GATE

SUB SUMMARY (B)

Bill No	Description of Work	Amount in (Rs.)
1	Entry Gate	
	TOTAL CONSTRUCTION COST	



RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

CHAHAR BAGH ENTRY GATE

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 1	Entry Gate				
	CIVIL WORKS				
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m). 1) Depth upto 5ft (1.5m) b) By Excavator				
	i) Ordinary Soil	1,000 Cft	7,188.00		
	2) a) Depth from 5.1 ft (1.5m) to 15 ft (4.5 m):- By Excavator ii) Ordinary soil	1,000 Cft	3,953.00		
2	Providing and laying good quality / local sand cushion from approved source (compacted in layers not exceeding 6" thickness) by mechanized means including the cost of front-end loader, vibratory roller and all leads and lifts, dressing, watering complete in all respect as approved and directed by the Engineer In-charge.	1 Cft	6,487.00		
3	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8	100 Cft	304.00		
	(f) Ratio 1: 2: 4	100 Cft	307.00		
4	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, pouring with pump in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Viberator, excluding the cost of Admixture, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Raft, Strip and Footing Beams vi) 4000 PSI	1 Cft	4,350.00		
	(b) Retaining/ Shear walls laid in situ or precast laid in position, or prestressed members cast (Formwork on both sides) iv) 4000 PSI (i) Upto 9" thick	1 Cft	4,302.00		
	4000 PSI Above 9" thick	1 Cft	625.00		
	(a) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects inforcement, its fabrication and placing in position, etc.):-				
	(iv) 4000 PSI	1 Cft	1,128.00		
5	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire and labour charges for binding of steel reinforcement. The rate includes wastage, overlaps and steel chairs, etc. complete in all respect (also includes removal of rust from bars):- (c) Deformed bars (Grade-60)	100 Kg	41,895.00		

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

CHAHAR BAGH ENTRY GATE

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
6	Bitumen coating to plastered or cement concrete surface: i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	100 SM	2,439.00		
7	Providing and fixing precast Edge Kerb Stone (100 mm to 150 mm thick), of 3500 PSI compressive strength, embedded in PCC 1:2:4 over lean concrete 1:4:8, etc., complete in all respect. b) With Painting (iii) (300x150x450mm high)	1 Rft	281.00		
8	Providing and laying Tuff Pavers, having 7000 PSI crushing strength, of approved manufacturer, over 2" to 3" sand cushion, including grouting with sand in joints, including finishing to required slope, complete in all respect. (50% Grey / 50% Coloured) b) 60-mm thick	1 Sft	930.00		
9	Providing and fixing glaxy granite on wall complete in all respect	1 Sft	1,168.00		
10	Providing and fixing travertine marble on wall complete in all respect	1 Sft	2,948.00		
11	Providing and applying skin rock on wall and other finishes complete in all respect	1 No	121.00		
12	Chahar Bagh logo and other finishes complete in all respect	1 P.S	1.00		1,000,000.00
TOTAL COST					

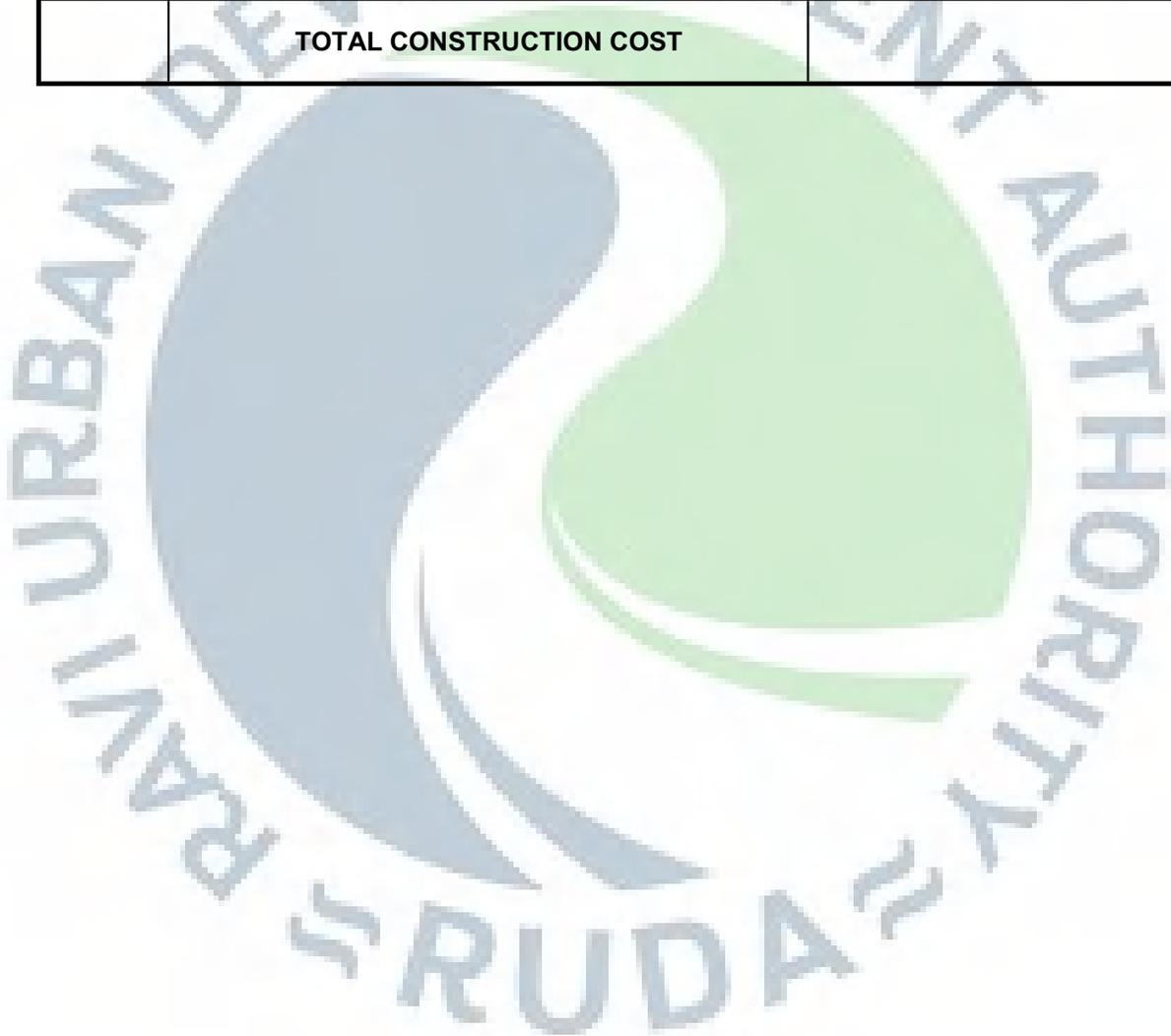
RAVI URBAN DEVELOPMENT AUTHORITY

**CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE
AT CHAHAR BAGH PHASE-I**

TOLL PLAZA (C)

SUB SUMMARY

Bill No	Description of Work	Amount in (Rs.)
1	Toll Plaza	
	TOTAL CONSTRUCTION COST	



RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

TOLL PLAZA (C)

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 1	Toll Plaza Booth				
	CIVIL WORKS				
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling in layers around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m). 1) Depth upto 5ft (1.5m) b) By Excavator i) Ordinary Soil	1,000 Cft	650.00		
2	Providing and laying good quality / local sand cushion from approved source (compacted in layers not exceeding 6" thickness) by mechanized means including the cost of front-end loader, vibratory roller and all leads and lifts, dressing, watering complete in all respect as approved and directed by the Engineer In-charge.	1 Cft	195.00		
3	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8	100 Cft	28.00		
4	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, pouring with pump in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Viberator, excluding the cost of Admixture, as approved and directed by the Engineer Incharge. (c) Substructure (Foundations, Raft, Strip and Footing Beams vi) 4000 PSI	1 Cft	165.00		
5	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire and labour charges for binding of steel reinforcement. The rate includes wastage, overlaps and steel chairs, etc. complete in all respect (also includes removal of rust from bars):- (c) Deformed bars (Grade-60)	100 Kg	514.00		
6	Bitumen coating to plastered or cement concrete surface: i) 20 lbs. per 100 Sft. (9.07 Kg per Sq.m)	100 SM	173.00		
7	Providing and laying Tuff Pavers, having 7000 PSI crushing strength, of approved manufacturer, over 2" to 3" sand cushion, including grouting with sand in joints, including finishing to required slope, complete in all respect. (50% Grey / 50% Coloured) b) 60-mm thick	1 Sft	40.00		
8	Providing and fixing Alco bond toll booth (08x5ft) along with automatic barriers complete in all respect or as directed by engineer incharge	1 Job	1.00		
9	Providing and fixing automatic barriers complete in all respect or as directed by engineer incharge	1 Job	1.00		
TOTAL COST					

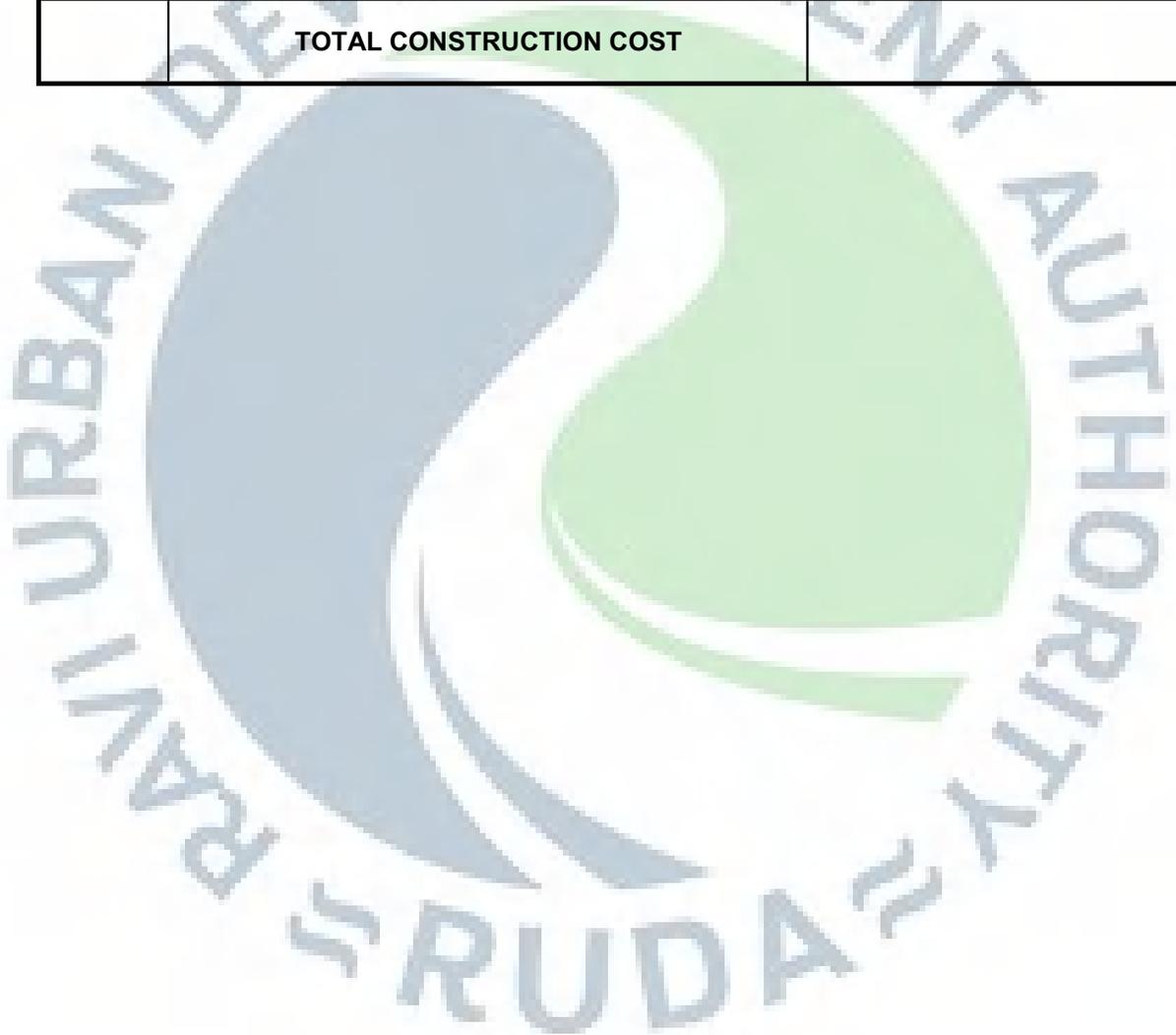
RAVI URBAN DEVELOPMENT AUTHORITY

**CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE
AT CHAHAR BAGH PHASE-I**

ELECTRICAL WORKS

SUB SUMMARY (D)

Bill No	Description of Work	Amount in (Rs.)
1	Electrical Works	
	TOTAL CONSTRUCTION COST	



RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

ELECTRICAL WORKS

BILL OF QUANTITIES

Item No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
Bill No. 1	Electrical Works				
	Design, supply, transportation, storage, installation, testing and commissioning of the following items of work, including all material, labour, tools and accessories etc. required for proper completion of each item as per specification, drawings and/or as directed by the Engineer.				
1	Supplying, installation testing and commissioning of Octagonal shape street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel, tapered from 225 mm at bottom to 100 mm at top, with 1500 mm x 60 mm x 4 mm thick dia. arm for luminaire installation, duly G.I. welded with 470 x 470 x 20 mm base plate with the help of 4 no triangular stiffeners 100 x 350 x 20 mm of GI sheet, with built in junction box with shutter & two (02) nos. 2A SP MCB 10kA breaker, i/c the cost of nuts & J-rag bolts, duly fixed in pre-laid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer Incharge.				
	a) Single Arm (iii) 12 mtr height	Each	42.00		
	b) Double Arm (iii) 12 mtr height	Each	5.00		
2	Road Lighting Pole Foundation	Each	47.00		
	<u>LED Road Light Fixtures</u>				
3	Road Lighting LED Cobra-head Luminaries of 120W and 120 lm/W conforming to IP 66 & IK 08 or above Philips/Osram/Thorn or NEECA approved equivalent manufacturer with corrosion resistant die casted Aluminum housing, silicon gasket in special groove, UV stable & scratch resistant synthetic materials, thermally hardened glass complete with LED Chip (Philips Lumiled/Cree/Nichia/Osram make or equivalent approved manufacturer), programmable LED driver (Harvard/TCI/Lumotech/Philips/VOSSLOH Schwabe/Lightech make or approved equivalent manufacturer), minimum 10kV surge protection rating i/c the cost of all accessories/ components required for proper operation, fully flexible for future upgradation and easy replacements for maintenance purposes, bucket elevator charges as approved and directed by the Engineer Incharge.	No.	52.00		
	<u>Conduits / Pipes</u>				
4	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines/electric cables upto 5 ft. (1.5 m) depth from ground level, including backfilling, trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000 Cft	6,748.00		
5	PVC pipe/conduit Class-D 100 mm dia with accessories suitable for laying multi-core cables in trenches/directly buried on road crossings including excavation.	Rft	280.00		
6	PVC pipe/conduit Class-B 100 mm dia with accessories suitable for laying multi-core cables in walls/barriers/structure.	Rft	4,600.00		
	<u>Low Voltage Power Cables</u>				

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

ELECTRICAL WORKS

BILL OF QUANTITIES

Item No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
7	PVC insulated, PVC sheathed 4 core 25 mm ² , 600/1000 volt non armoured copper conductor cable for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only)	Rft	4,600.00		
8	Single core 25mm ² PVC insulated copper conductor 450/750 volts cable, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only)	Rft	459.00		
9	PVC insulated, PVC sheathed 4 core 16 mm ² , 600/1000 volt non armoured copper conductor cable for service connection, in prelaidd pipe/G.I. wire/trenches, etc. (rate for cable only)	Rft	3,252.00		
10	Single core 16mm ² PVC insulated copper conductor 450/750 volts cable, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only)	Rft	4,880.00		
11	3 Nos. 1 core 2.5 mm ² Cu/PVC 450/750 Voltage grade cable (stranded conductor) (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing) from junction box to the fitting through the hollow of pole. For 12m Pole	No.	47.00		
12	Road lighting control panel with angle iron frame claddd 14 SWG, sheet steel enclosure having high quality powder coated paint, color RAL 7032. The LCP shall be complete with incoming and outgoing MCCBs, Cu bus bars, magnetic contactors, photo-electric switches, meters, indication lights, construction with IP 54 protection class, door, locking arrangement etc. and all other accessories as required for quality work. MATERIAL 1 No. incoming 63 Amp.(adj.) TP, MCCB, 25 kA 4 No. outgoing 25 Amp. (adj.) TP MCCBs, 25 kA 2 No. outgoing 25 Amp. (adj.) TP MCCBs, 25 kA (Spare) 4 No. 32 Amp. magnetic contactor 2 No. 32 Amp. magnetic contactor (Spare) 3 No. photo-electric switches with timers and relays a) 1 No. ammeters 0-100 Amp, with selector switch (04 position) and CT of 100/5 Amp b) 3 No. indication lights c) 1 No. voltmeter with fuse and 7 position selector switch. d) 3 Ph, N & Earth copper bus bars Internal wiring & line-up terminals etc. Brass cable glands/accessories e) 06 Nos. Auto-Manual-OFF (3 position switches for operation in auto (with photocell) and normal (manual mode-photocell override) f) 06 Nos.ON & 06 Nos. OFF push button switch's with indication lights g) Panel Light with limit Switch	Job	2.00		
	Earthing				
13	Earthwork excavation undressed lead upto a single throw of Kassi, phaorah or shovel:- b) In ordinary soil.	1000 Cft	18.00		
14	Supplying and filling sand under floor or plugging in wells	100 Cft	18.00		

RAVI URBAN DEVELOPMENT AUTHORITY

CONSTRUCTION OF ENTRY GATE AND AT GRADE IMPROVEMENT FOR ENTRANCE AT CHAHAR BAGH PHASE-I

ELECTRICAL WORKS

BILL OF QUANTITIES

Item No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
15	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, pouring with pump in the required proportions to achieve a nominal cylindrical strength in the field as per ACI214, with the specified consistency. i/c the cost of shuttering, compaction with Viberator, excluding the cost of Admixture, as approved and directed by the Engineer Incharge.				
	(c) Substructure (Foundations, Raft, Strip and Footing Beams) (iv) 4000 PSI	Cft	1.00		
16	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):- (b) Deformed bars (ii) (Grade-60)	Kg	1.70		
17	Rod type Earth point comprising of 5/8" dia. (16 mm dia) 10 ft long copper coated M.S. rod driven in ground duly fixed with clamp with Tinned earth test link copper plate (300x50x10mm), i/c the cost of brass nuts, spacers, bolts washers lugs etc. complete in all respect including earth pit and RCC cover.	Each	2.00		
	<u>Pole Mounted Transformer</u>				
18	Oil cooled type, Step down Power Transformer pole mounted of 25 kVA rating, 11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 4% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges, complete in all respects made of PEL, Siemens, Transfopower, Elmetec or as approved and directed by the Engineer Incharge with three phase energy meter.	Job	2.00		
19	<u>MV Cable and Termination Kit</u>				
a)	MV cable 3-core 120mm ² XLPE/PVC/SWA/PVC cable with aluminium conductor voltage grade:8.7/15 kV	Rft	600.00		
b)	Providing and fixing/installation indoor 3-core 120mm ² , 11KV, XLPE, heat shrink termination Kit complete in all respect as required.	Job	1.00		
c)	Providing and fixing/installation outdoor 3-core 120mm ² , 11KV, XLPE, heat shrink termination Kit complete in all respect as required.	Job	1.00		
Total Cost					

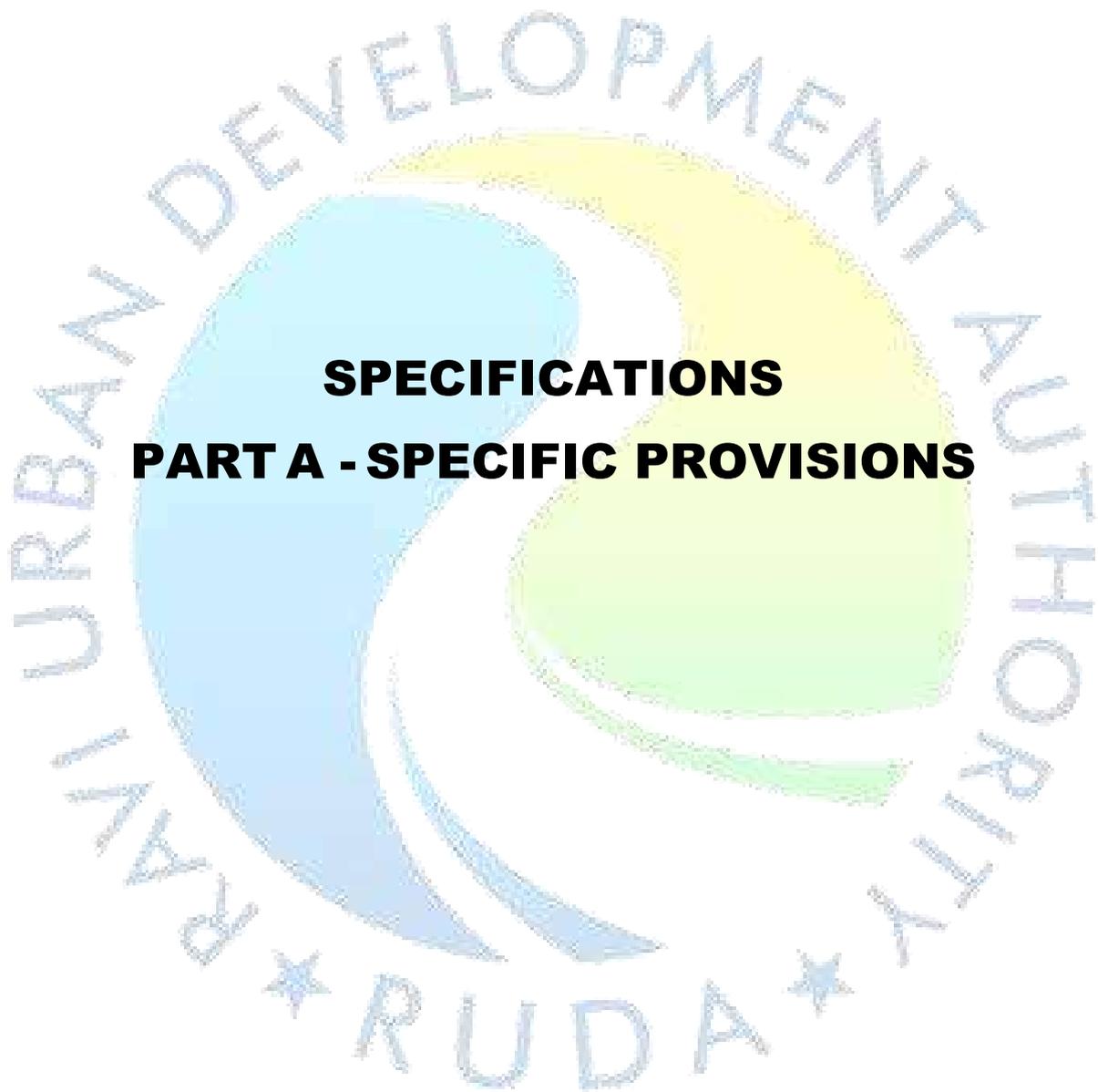
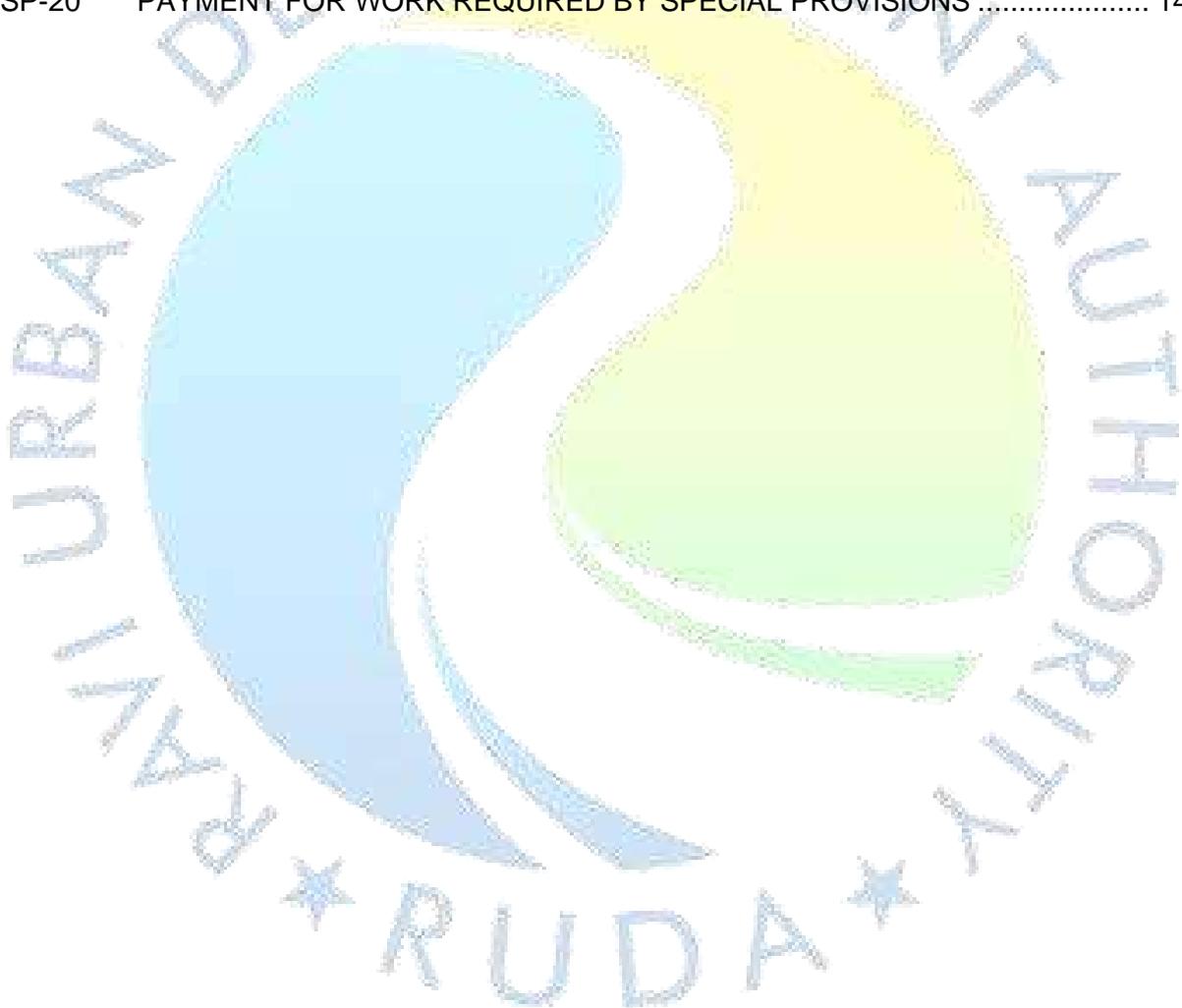


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SPECIFICATIONS – SPECIAL PROVISIONS

SP- 1 GENERAL

The Ravi Urban Development Authority (RUDA) aims to rehabilitate and develop the dying River Ravi into a perennial freshwater body, to allow high quality waterfront urban development on the reclaimed and adjoining land.

This project aims for Construction of Entry Gate and at Grade Improvement for Entrance at Chahar Bagh Phase-I.

SP- 2 DESCRIPTION OF THE WORKS

2.1 The works included in this Contract are as follows but not limited to these items only:

- Earthwork and Allied Activities
- Sub-base & Base Course
- Surface Courses & Pavement
- Ancillary Works
- Drainage Works
- Dismantling of Existing Structure
- Electrical Works (P.S).

SP- 3 SITE OF WORKS

The Employer will give to the Contractor possession of as much of the area designated and defined as the Site and shown on the drawings as may be required to implement the Works, but subject to any restrictions set out in the Contract, when the Engineer's Notice to Commence work is given.

SP- 4 SETTING OUT

Setting out data and control points for execution of works, will be provided by the Engineer following the 'Notice to Commence' but in any case, prior to start of work.

SP- 5 CLIMATOLOGICAL DATA

Lahore features a five-season semi-arid climate with five seasons: foggy winter (30 Nov – 15 Feb) with few western disturbances causing rain; pleasant spring (16 Feb – 15 April); summer (15 April – 30 June) with dust, rain storms and heat wave periods; rainy monsoon (1 July – 16 September); and dry autumn (16 September – 14 November).

The hottest month is June, where average highs routinely exceed 40 °C (104.0 °F). The wettest month is July, with heavy rainfalls and evening thunderstorms with the possibility of cloudbursts. The coolest month is January with dense fog.

The city's record high temperature was 50.4 °C (122.7 °F), recorded on 5 June 2003. On 10 June 2007, a temperature of 48 °C (118 °F) was recorded; The lowest

temperature recorded in Lahore is -2.2°C , recorded on 17 January 1935.
The Works shall be designed to withstand the above climatic extremes including high temperatures (up to 50°C), dust storms, monsoon rains, and dense fog.

SP- 6 UTILITIES

The Contractor shall directly enquire from the utility companies about availability of connections of electric power supply and telephone lines for his use at the Site. In case of non-availability of electric power supply from national grid to meet his requirements, the Contractor shall provide at his own cost electric power generators as necessary for supply of power for the various parts of the Works including his camps, offices, stores, workshops and other installations. The Contractor shall bear all costs for constructing, operating and maintaining the generation system, including the standby generation system, and distribution system including providing diesel, oil or other consumables and all services and necessary attendance to ensure uninterrupted power supply at all times.

The Contractor shall make his own investigations and arrangements for supply of water of acceptable quality for construction requirements and safe drinking water for his staff and workmen and for the staff of the Engineer.

No separate payment will be made to the Contractor for works performed under this Clause and the costs thereof shall be deemed to be included in the rates and prices of the various items in the Bill of Quantities.

SP- 7 EXTENT OF WORK

The Contractor shall remove all debris and unsuitable construction. Any depressions shall be filled by the contractor and compacted to the Engineer's satisfaction with no additional cost. The contractor shall construct the Works in accordance with the Drawings and Specifications and as directed by the Engineer. The Contractor shall procure, furnish, provide and arrange all the necessary construction materials, equipment, transportation, fuel, electric power, water and services; be responsible for the construction and maintenance of the construction camps, offices, workshops and access roads that he may require, and perform all other work necessary for completion of the Works described herein, in complete conformity with the Contract.

SP- 8 DRAWINGS

8.1 BIDDING DRAWINGS

The Drawings provided at end of Bid Documents and hereinafter referred to as Bid Drawings show the scope of the work to be performed by the Contractor. The Bid Drawings shall not be used as a basis for fabrication or construction, but may be used as the basis for planning, scheduling and placing preliminary orders for materials, subject to corrections based on future issue of Construction Drawings. Any other Drawings if issued through Addenda, before opening of Tenders, shall

become part of the Bid Drawings.

8.2 CONSTRUCTION DRAWINGS

After award of Contract, Bidding Drawings will be replaced by Drawings issued by the Engineer for Construction, with such modifications as may be necessary. The Drawings Issued for Construction will include Bid Drawings re-issued, Bidding Drawings modified and additional Drawings as required to develop in greater detail the construction required and shall be referred to hereinafter as “Construction Drawings”. The Construction Drawings that show changes from the Tender Drawings and Specifications, will be reviewed by the Engineer for determination of adjustments, if any, of the Contract Price in accordance with the relevant provisions of General Conditions of Contract. The work shall be executed in conformity with the Construction Drawings.

The Engineer and Contractor shall jointly prepare a schedule for issuance of Drawings Issued for Construction of the various parts of the Works based on a list of drawings provided by the Engineer.

8.3 CHECKING DRAWINGS

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

SP-9 RIGHT TO CHANGE

The Engineer may find it desirable to change location, alignment, dimensions or design of one or more of the features of the Works to conform to the newly disclosed conditions. Toward this end, the Engineer reserves the right to make such reasonable changes, and the Contractor’s operations shall be conducted so as to accommodate any such changes in the Works.

SP- 10 DRAWINGS AND DATA TO BE FURNISHED BY THE EMPLOYER / ENGINEER

10.1 PROCEDURE FOR SUBMITTAL OF CONTRACTOR’S DRAWINGS

All drawings showing construction details shall be provided by the Employer/Engineer.

10.2 OTHER DRAWINGS

Other drawings additional to those referred to hereinabove required by the Specifications showing proposed methods of constructing Temporary Works shall also be submitted to the Engineer for approval.

10.3 OWNERSHIP OF DRAWINGS

All the drawings, details, bills of materials and any other information or documents furnished by the Engineer shall become the property of the Employer/Engineer.

As-Build Record:

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

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

Shop Drawings:

The Contractor shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this 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.

SP-11 CONSTRUCTION PROGRAMME

11.1 GENERAL

The program of work submitted by the Contractor in accordance with Sub-Clause 14.1 “Programme to be submitted” of the General Conditions of the Contract shall be supplemented by submittal of a detailed schedule based on a computerized system, Primavera Enterprise for Engineering & Construction (P6) software or equivalent, covering all construction activities and furnished to the Engineer on paper and a soft copy on the following dates:

- **Construction Schedule:** Along with the Bid Documents.
- **Baseline Schedule:** within 7 days after receipt of Letter of Acceptance.
- **Revised Baseline Schedule:** As and when required by the Engineer.
- **Recovery Schedule:** As and when required by the Engineer.

The Baseline Schedule, as approved by the Engineer in consultation with the Employer, will form an integral part of the Contract and will establish Contract completion dates for the various activities as mentioned in the Contract.

All schedules, project plans, progress updates and reports shall be in the form of readable computer printouts as well as in soft data format.

11.2 REQUIREMENTS & PROCEDURES

11.2.1 GENERAL REQUIREMENTS

- The narrative report accompanying the submittal shall describe the construction methods; plant and equipment proposed to be used and shall explain the expected production rates that are the basis of the scheduled durations of different activities.
- Start Date of the Project.
- Dates on which different site possession will be required.
- General administrative items like, Performance guarantee, Mobilization Advance Guarantee, Insurance etc.
- Unique Activity ID, description and duration.
- Activities' earliest start and finish dates, latest start and finish dates.
- All activities with zero float.
- Critical path with listing of all activities on the path.
- Dates for Employer furnished material or equipment if any.
- Required dates of Drawings from the Engineer.
- Dates for submittals like Method Statements etc.
- Work Breakdown Structure (WBS) and activity codes.
- Definition of calendars with non-working days or periods i.e. planned closures, flood seasons etc.
- Loading of key resources.
- Milestone dates.
- Network logic Diagram.
- List of constraints i.e. reason and type of constraint.
- Full S – Curve and Critical S – Curve (for critical activities only).
- Cost/ Resource Histograms.
- Planning assumptions and any external relationships
- Explain any discretionary dependencies.
- Appropriate quantity of direct resources (material, labour, equipment) should be allocated to all activities and showed in submitted construction schedule. Labour resource should be divided according to related trades (e.g. Mason, Operator, helper etc.) Contractor should make sure that no resource is being overallocated.
- BOQ amount should be loaded to each construction activity. Earned Value Management Reporting to be ensured accordingly.

11.2.2 CONSTRUCTION SCHEDULE

Construction Schedule will be submitted along with Bid Document and will be prepared in accordance with the Sub-Clause 11.2.1 hereof.

11.2.3 BASELINE SCHEDULE

Baseline Schedule to be submitted within 14 days after the letter of acceptance and will be prepared in accordance with the General Requirements mentioned under the Sub-clause 11.2.1 hereof. Start date will be the date of Notice to

Commence.

11.2.4 REVISED BASELINE SCHEDULE

Besides, the General Requirements mentioned above, following will be the additional requirements for or quarterly Baseline Schedule:

- The revised narrative report depicting the actual situation and submittal describing the construction methods, plant and equipment proposed to be used and shall explain the expected production rates that are the basis of the revision of scheduled durations of different activities.
- Start Date will be taken as Notice to Proceed.
- Change in strategy to achieve the target Completion Date describing the additional resources if required, change in sequence of activities etc.
- Actual start and finish dates.
- Incorporation of effects of all approved changes that have occurred during last three months i.e. any change order which will affect the Completion Date of the Project. Any change in Completion Date for milestones shall be on the basis of prior extension if any granted by the Engineer.
- Comparison with the target Baseline Schedule. The narrative of any deviation from the Baseline.

11.2.5 RECOVERY SCHEDULE

The Recovery schedule will be submitted to the Engineer as and when required by the Engineer. If in the opinion of the Engineer any project milestone is likely to be missed, mitigation strategy for recovering the project will be submitted in the form of Recovery Schedule.

11.3 EXPLANATION & DEFINITIONS OF DIFFERENT TERMS

11.3.1 ACTIVITY CODES

Activity codes will include the following details:

- Type of Structure
- Area / RDs
- Work Restrictions (Closure etc.)
- Responsibility if identified, in the Contract to be shared with an agency other than the Contractor.

11.4 REPORTING REQUIREMENT

11.4.1 EXECUTIVE SUMMARY

Briefly set out the key issues together with recommendations for actions to be taken relating to the reporting period. The following topics may be covered:

- Cash flow utilization: actual versus planned.

- Physical progress: main progress activities during the month vs planned milestones.
- Main risks, challenges, and issues encountered during the month.
- Main mitigation, preventive, or corrective measures envisaged and person(s) responsible to carry out such measures.

11.4.2 CONTRACT STARTUP ACTIVITIES

- List all activities that should take place from the issuance of the letter of acceptance by the Employer to the selected bidder until 60 days after the commencement date, mentioning due date, actual date and responsibility.
- Mobilization Activities (planned date as per programme, actual date and remarks)

11.4.3 RISK MANAGEMENT

- Include risk identification, risk assessment, and risk mitigation in a comprehensive Risk Register.

11.4.4 PROGRAMME MONITORING

Including but not limited to the following

- Tabular form of progress – planned dates, actual dates, variances
- Graphical form – line graph illustrating actual verses planned progress
- Pie chart – overall progress (%), time elapsed, time remaining
- One month look ahead table with target dates
- A short paragraph commenting on the critical path and the progress recorded to date.
- Description of all work carried out since the last report;
- Earned Value Analysis

11.4.5 CHANGE MANAGEMENT

Contractor will prepare Variation and Claim Register.

11.4.6 FINANCIAL MANAGEMENT

- Payment Schedule
- Evolution of Contract Price

11.4.7 ENVIRONMENTAL MANAGEMENT HEALTH & SAFETY

Contractor will provide Complete Compliance Report.

11.4.8 COMPLETION OF WORKS AND CONTRACT CLOSURE

Contractor will provide List of all activities executed at site with due date and actual date.

11.5.9 PHOTOGRAPHS TO ILLUSTRATE PROGRESS

The caption shall be typed on each photograph

- Title of Project
- Identification of subject shown
- Station point of camera and direction of view
- Date & Time (automatically displayed on the photos)
- Name of Employer / Engineer and Contractor.

SP- 12 LAY OUT OF WORKS

12.1 REFERENCE POINTS, LINES AND LEVELS

The Engineer will provide a reference line or lines in the field with accompanying points and/or bench-marks to enable the Contractor to establish survey control points for construction.

12.2 VERIFICATIONS

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

12.3 PRIMARY CONTROL POINTS

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

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

12.4 CONTRACTOR'S SURVEYORS

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

12.5 BASIC CONTROL MONUMENT

Based upon the Engineer's established basic control monuments the Contractor shall establish all lines and grades necessary to control the Works, and shall be responsible for all measurements that may be required for execution of the Works to the tolerance prescribed in Sub-Clause 12.7 below.

12.6 SURVEYS AND COMPUTATIONS

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

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

12.7 TOLERANCE

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

- (a) Alignment of tangents and curves shall be within 0.1 foot for 1,000 feet i.e., an accuracy of 1:10,000.
- (b) Structure points shall be set within 0.01 foot accuracy from point to point, except where tighter tolerances are required.
- (c) Cross-section points shall be located within 0.10 foot, horizontally and 0.01 foot vertically.
- (d) Permissible closing error for a levelling line meant for establishing Temporary Bench Mark (TBMs) shall not exceed $0.045 \times \sqrt{M}$ foot, where M is in miles. The permissible closing error shall be duly adjusted.

12.8 MATERIAL AND EQUIPMENT

The Contractor shall provide all materials, equipment and labour required for work.

SP-13 STANDARDS AND SPECIFICATIONS

Unless otherwise specified in these Specifications or shown on the Drawings, all materials, equipment, installation, testing, and commissioning works related to the solar power system and CCTV surveillance system shall conform to the latest applicable international and national standards listed below, or their equivalent:

- American Society for Testing and Materials (ASTM)
- IEEE (Institute of Electrical and Electronics Engineers) Standards (IEEE)
- NEC (National Electrical Code)
- British Standards (BS)
- Pakistan Standard Institution (PSI) Standards
- International Electrotechnical Commission (IEC)

Where standards specify metric units only, these may be converted to equivalent imperial units where necessary for execution of this Contract.

All materials and workmanship not explicitly covered by these Specifications or by

an approved Standard shall be of the highest quality, suitable for long-term operation under the climatic and environmental conditions of the RRUDP project area (high temperature, dust, humidity, and outdoor exposure).

If the Contractor proposes, for valid technical or commercial reasons, to deviate from the above Standards or to introduce alternative materials or equipment, such proposals shall be submitted in writing with complete technical details, supporting documents, and justification. Approval of such deviations shall rest solely with the Engineer/Employer.

SP- 14 ACCESS TO SITE

14.1 MAINTENANCE OF ACCESS AND HAUL ROUTES

The Contractor shall be responsible for maintenance of access and haul routes to Site of Works till completion of the Works. The Contractor shall make his own investigations of the condition of available public or private roads and of clearances, restrictions, bridge load limits and other limitations that affect or may affect transportation and ingress and egress at the job sites. The repair, maintenance and reinstatement of access routes, roadways, drain and canal banks if damaged during operation shall be the responsibility of the Contractor without any additional cost to the Employer.

14.2 RESTORATION OF SITE

On completion of the Works, the Site shall be restored by the Contractor to its original conditions as far as practicable and left in tidy condition.

SP- 15 FACILITIES TO BE PROVIDED BY THE CONTRACTOR AT SITE

15.1 CONTRACTOR'S CAMPS

The Contractor shall arrange Camp facilities in the nearby area of the Project.

15.2 TEMPORARY SANITARY FACILITIES

- (a) The Contractor shall provide adequate temporary sanitary conveniences for the use of his employees and persons engaged on the work, including the Engineer and his employees. He shall ensure that his employees and labour make proper use of the latrines and do not foul the Site.
- (b) In addition to toilet facilities, suitable and adequate washing facilities shall be provided.
- (c) Sanitary facilities shall be located as directed or approved by the Engineer and shall be maintained in a clean and sanitary condition during the entire course of the work.
- (d) The septic tank and/or temporary holding tank(s) shall be kept pumped out at such intervals that the tank(s) will not overflow and contaminate the ground, flowing streams or surface drainage.

- (e) On completion of the Works, sanitary facilities shall be properly disinfected and all evidence of same including temporary buried tanks and foundations removed from the Site.

15.3 MEDICAL FACILITIES

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

Adequately equipped dispensary/ies with qualified and experienced staff shall be provided by the Contractor at his camps. In addition, suitably equipped first aid stations manned by trained staff shall be provided at strategic locations, to administer first aid treatment at all times free of charge to all persons on the Site, including personnel of the Engineer and the Employer. The nature, number and location of facilities furnished and the Contractor's staff for administering first-aid treatment shall meet the requirements of the Health Services of the Government of Pakistan.

15.4 OPERATION AND MAINTENANCE OF THE CAMPS AND FACILITIES

For the purpose of operation and maintenance of the camps and facilities provided as above, the Contractor shall comply with all applicable provisions of the Pakistani Labour Laws and specifically to the following requirements:

- (a) Camp areas shall be kept dry and free from dense vegetation. Measures shall be taken to control dust within the camp area, by water or oil spraying or other approved means.
- (b) Any ponded water around a camp shall be sprayed weekly with oil or other approved anti-malaria liquid.
- (c) The Contractor shall provide garbage collection and disposal services for his construction camps and the Engineer's office. Disposal shall be by burial (landfill) and/or incineration. Disposal area shall be located a sufficient distance away and downwind from camp facilities and offices so as not to create objectionable odours or health hazards. Equipment, methods of collection and disposal and location of disposal areas shall be submitted to the Engineer for approval.
- (d) The interior walls and ceilings of buildings shall be lime washed or painted. The whole of the open spaces around the buildings shall be swept each day and all rubbish removed. The living areas shall be suitable for the climatic conditions. Roof height shall not be less than 10.5 ft. and adequate number of ceiling fans shall be provided.
- (e) Adequate sanitary conveniences, including washing and bathing places shall be maintained at each of the camps. All sanitary fixtures, receptacles, toilet rooms, lavatories and wash rooms shall be cleaned and disinfected at least once every day.

15.5 DRAINAGE

The ground around the buildings shall be graded to slope away from building perimeters so as to provide adequate drainage and shall be thoroughly compacted.

Excavated material shall be disposed of by filling in low areas or as otherwise directed by the Engineer.

15.6 WATER SUPPLY

The Contractor shall arrange for the water supply for his staff residences, labour camps, site offices, work yards, workshops, and various camp facilities. Construction of pumps, storage tanks, overhead tank, distribution system, and their proper running and maintenance shall be his responsibility. Water shall be supplied to the camps 24 hours a day. Adequate supply of water, cooled in summer, shall be ensured in camps and sites of work. Water samples shall be tested periodically to ensure that it is fit for human consumption.

15.7 ELECTRICITY SUPPLY

The Contractor shall provide electricity required for the Works including labour camps, staff residences, offices including the Engineer's Site office and various camp facilities. The Contractor shall also provide sufficient standby electricity supply arrangements for his needs.

15.8 UTILITY LINES

The Contractor Shall conduct his operations, make necessary arrangements, take suitable precautions and perform all required work incidental to the protection of and avoidance of interference with power, telephone, water and other utilities within the areas of his operations in connection with the Contract. No separate payment shall be made for such incidental work. In case the utility lines are required to be relocated the Contractor shall arrange their relocation with the concerned departments and organizations.

15.9 HANDING OVER / REMOVAL AFTER COMPLETION

Upon completion of the Works, these facilities with regard to Contractor's camps, labour and staff accommodation, site office, other installations and temporary buildings constructed and all facilities provided by the Contractor under this Clause shall be handed over to the Employer or if the Employer desires, the Contractor shall remove these facilities and the Site cleared and reinstated to the satisfaction of the Engineer. Nevertheless, in case of private land, upon completion of the Works, the Employer shall be responsible for maintenance of area together with bearing of cost, if any.

15.10 MEASUREMENT AND PAYMENT

No separate payment will be made for the work included under the Clause SP-15; the cost thereof is deemed to be included in the rates and prices of other items entered in the Bill of Quantities.

SP- 16 SITE FACILITIES TO BE PROVIDED BY THE EMPLOYER

16.1 GENERAL

Without prejudice to the generality of the various clauses of the Contract and except for the facilities referred to hereinafter, particular attention is drawn to the obligations of the Contractor to make his own arrangements for providing, maintenance and furnishing of labour camps, staff residences, offices, workshops, stores watching and guarding thereof.

The Contractor shall submit his written demand of his requirements of land for his Site Facilities as herein specified, at least 28 days in advance.

SP- 17 SAFETY MEASURES AT CONSTRUCTION SITE

- a) Pursuant to the provisions of Sub-Clause, for Safety Measures the Contractor shall observe high standards of safety for men and machines at all times and with regard to safety.
- b) The Contractor shall take all possible measures to protect his personnel from harm. In case of any casualty or injury to any person due to the Contractor's operations, the Contractor shall ensure quality medical treatment and payment of due compensation.
- c) The Contractor shall not permit casual observers to come close to the sites where excavation and other hazardous operations are being performed.

SP- 18 ENVIRONMENTAL PROTECTION

The Contractor shall exercise care to protect the natural landscape and shall conduct his construction operations so as to prevent any unnecessary destruction, scarring or defacing of the natural surroundings in the vicinity of the Works. Except where clearing is required for the Permanent Works, approved construction roads and the Temporary Works, and for excavation operations, all trees and native vegetation shall be preserved and shall be protected from damage which may be caused by the Contractor's construction operations and equipment. On completion of the Works, all work areas shall be smoothed and graded in a manner to conform to the natural appearance of the landscape. Where unnecessary destruction, scarring, damage or defacing may occur as a result of the Contractor's operations, it shall be repaired, replanted, or otherwise corrected as directed by the Engineer at no additional cost to the Employer.

SP-19 INSPECTION AND TESTING

To ensure the quality and safety of works, regular inspections and tests will be conducted throughout the project. These will include pre-installation checks, in-process monitoring, and final inspections. Various tests, such as continuity, insulation resistance, and high voltage tests, will be performed to verify the integrity of electrical circuits and equipment. If any deficiencies are found, the contractor will be required to take corrective measures. Upon successful completion of inspections and tests, the engineer will issue an acceptance certificate, signifying



the satisfactory completion of the works.

SP-20 PAYMENT FOR WORK REQUIRED BY SPECIAL PROVISIONS

No separate payment shall be made for work required / stated in these Special Provisions.





SPECIFICATIONS

PART B: TECHNICAL PROVISIONS

