

SPPRA BIDDING DOCUMENT

**SINDH PUBLIC PROCUREMENT REGULATOR AUTHORITY
(SPPRA)**

STANDARD FORM OF BIDDING DOCUMENT

(Civil Works –Large Works)

**This SBD shall be used for large works costing more than
Rs.50 Million**

NAME OF WORK:

**CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD
DISTRICT CENTRAL (2371).**

(RS.1249.959 MILLION)

Tender Issued:

No. SE/ED/KDA/2023/72/L

Issue to M/s.

Pay Order No. _____

Date: _____

Bank: _____

Signature and Stamp of Issuing Authority.

**TECHNICAL
PROPOSAL**

**INSTRUCTIONS
TO
PROCUREMENT AGENCIES**

INSTRUCTIONS TO PROCURING AGENCY

(Not to be included in bidding documents)

As stated in Clause IB.7 of the Instructions to Bidders, the complete bidding documents shall comprise of eleven items listed therein and any Addenda issued in accordance with Clause IB.9. The Standard Bidding Documents, in addition to Invitation for Bids, includes the following:

1. Instructions to Bidders.
2. Bidding Data.
3. General Conditions of Contract, Part I (GCC).
4. Special Conditions of Contract, Part II (SCC).
5. Specifications
6. Form of Bid and Appendices to Bid.
7. Bill of Quantities.
8. Form of Bid Security.
9. Form of Agreement.
10. Form of Performance Security, Mobilization Advance Guarantee, Indenture Security Bond and Integrity pact.
11. Drawings.

The Instructions to Bidders can be used as given. Procuring agency may have to make changes in the text under some special circumstances subject to provisions of Rules and Regulations.

General Conditions of Contract shall not be changed. Procuring agency may carry out changes in General Conditions of Contract through Special Conditions of Contract, as per provisions of Sindh Public Procurement Rules 2010, updated from time to time, in Province of Sindh. However, such changes in General Conditions shall be made with due care. Completion of the Forms and preparation of Bill of Quantities should be made as suggested hereinafter.

Procuring Agency is required to prepare the following documents for completion of the bidding documents:

- (i) Special Conditions of Contract Part-II (SCC)
- (ii) Specifications.
- (iii) Bill of Quantities.
- (iv) Drawings

A. Notice Inviting Tender

1. The Notice“ Inviting Tender” advertised in the newspapers shall appear in at least three widely circulated leading dailies of English, Urdu and Sindhi languages as well as on SPPRA Website as explained in the SPP Rules, 2010 (17) (2). All the blank spaces are to be filled in by the procuring agency.
2. The eligible bidders are defined in Clause IB.3 of Instructions to Bidders.
3. The notice shall be published so as to give the interested bidders, sufficient time for preparation and submission of bids which shall be minimum of 15 days for National Competitive Bidding (NCB) and minimum of 45 days for International Competitive Bidding (ICB) SPP Rule 18.

4. Non-refundable tender fee for the sale of bidding documents shall be nominal so as to cover cost of photocopying or printing only SPP Rule 20. However, cost of mailing the documents on request of the interested bidder may be charged separately. Last date for the sale of the bidding documents is mentioned in the Notice Inviting Tender.
5. The procuring agency shall require the bidders to furnish a bid security not below one percent and not exceeding five percent of the bid price, which shall remain valid for a period of 28 days beyond the validity period for bids, in order to provide the procuring agency reasonable time to act, if the security is to be called, SPP Rule 37(1).
6. The venue and time of receipt of bids and the venue and time of opening of bids are to be mentioned in Notice Inviting Tender. Last date for the receipt and opening of bids shall be the same SPP Rule 41(1).
7. In IB 11.1 (b) of bidding data, procuring agency should list relevant information, which is considered vital at the time of post-qualification, when prequalification process is not followed. Subsequently, this information is required to be submitted along with bid and shall be verified by the procuring agency during evaluation process.
8. All blank spaces in the bidding data are to be filled in by the procuring agency to complete this document.
9. Referring to IB 19.2 (b) of bidding data, the Bid Reference Number should be the same as given in Notice Inviting Tenders and form of bid.

B. Instructions to Bidders and Bidding Data

1. If the works are not financed from a loan/credit, IB 2.1 of bidding data should be modified accordingly.
2. Procuring agency shall prepare the documents listed at Serial Nos. b, d, e, f, g, i, and k of IB 7.1 of Instructions to Bidders in order to complete the bidding documents comprising the Bid.
3. For completion of documents at Serial No. g and i, detailed instructions are given at Para C below.
4. Referring to IB 7.1 of bidding data, the period should be inserted as given in the bidding documents and Notice Inviting Tender (NIT).
5. In IB 11.1 (b) of bidding data, the bidder shall provide additional or updated information to the procuring agency regarding the post-qualification criteria as and when required.
6. Referring to IB 14.1 of bidding data, a bid validity period shall be specified therein, keeping in view the nature of the procurement, it shall not exceed 90 days in case of National Competitive Bidding (NCB) and 120 days in case of International Competitive Bidding (ICB) SPP Rule 38(1).
7. Referring to IB 15.1 of bidding data, the amount is to be filled in by the procuring agency; bid security shall not be below than one percent and not exceeding five percent of the bid price SPP Rule 37(1).

C. Form of Bid and Appendices to Bid

1. Form of Bid:

Only Bid Reference Number shall be filled in by the procuring agency (refer Para A.8 above). All other blanks spaces are to be filled in by the bidder.

2. Appendix-A to Bid:

- (a) The minimum amount of third party insurance should be assessed by the procuring agency and entered at Sr. No. 3.
- (b) The time for completion of the whole of the works shall be entered by the procuring agency at Sr. No. 5.
- (c) The amount of Liquidated Damages per day of delay shall be entered by the procuring agency at Sr. No. 7.

Amount of the Liquidated Damages for each day of delay in completion of the whole of the works, or if applicable, for any Section thereof, shall be (a sum equal to 10% of the estimated cost of the works divided by one-fourth of the number of days specified as completion time).

Formula: LD (per day) = 10% of Estimated or Bid Cost ÷ [0.25 × Time for completion (days)].

- (d) The Defects Liability Period is to be entered by the procuring agency keeping in view the nature and size of the work at Sr. No. 7.

This is generally taken as 365 days/one year.

- (e) The minimum amount of Interim Payment Certificate should be determined by the procuring agency depending upon the size and duration of the works and to be entered at Sr. No 10.

3. Appendix-B to Bid:

Where foreign currency payments are foreseen; the entire Appendix-B to bid should be left blank to be filled in by the bidder.

Where no foreign currency payments are foreseen, the procuring agency should stamp this Appendix-B as “Not Used” 1.1.4. and 613.4 of referring GCC, and state in SCC that all payments shall be in local currency only. Clause IB-13 should also be modified accordingly through the changes in bidding data.

4. Appendix-C to Bid:

(a) National Competitive Bidding (NCB):

Escalations on local funded projects/schemes shall be paid to the contractor only on following items with their base prices and sources shown in the bidding document at time of issuing NIT:-

- (i) Steel (ii) Cement (iii) Wood for Doors, windows & Partition walls
(iv) Bitumen (v) Bricks.

(b) International Competitive Bidding (ICB):

- (i) Contracts having duration of twelve months or more should be liable to price adjustment as per conditions of contract. Provided that the procuring agency may add or delete any item from the list given at the relevant appendix, as deemed appropriate.
- (ii) Blank spaces for weight-age of each cost item in column 3 of the table should be filled in by the procuring agency, while preparing the bidding documents.
- (iii) In case the price adjustable items are not covered in the Federal Bureau of Statistics, the base price and the source thereof shall be mentioned by the procuring agency and the corresponding column of the table should be amended accordingly.
- (iv) This mechanism shall be applicable only for price adjustment in local currency.
- (v) Price adjustment as mentioned above shall be applicable to all contracts including item rate, lump sum and %age quoted above or below on Composite Schedule of Rates (CSR), provided these provisions are part of the contract.

5. Appendix-D to Bid:

Bills for various items are given by way of example only. The procuring agency should prepare the Bill of Quantities (BoQs) appropriate to the works. In preparation of the Bill of Quantities, columns under (1), (2), (3) and (4) in item rate contract should be completed by the procuring agency, whereas, spaces under columns (5) and (6) as well as the totals at the bottom shall be left blank to be filled in by the bidder. But in case of Composite Schedule of Rates, all columns are to be filled by procuring agency, only percentage above or below are to be quoted by bidder.

Referring to Schedule of Day Work Rates for labour, materials and constructional plant, types of labour, materials and constructional plant under column (2) as well as quantities under column (4) are given by way of example only. The procuring agency should determine the types of labour, materials and constructional plant as well as the quantities thereof, estimated to be utilized, on day work basis depending upon the nature of the works.

Percentage for overhead and profit on labour and materials, and the total amounts should be left blank to be filled in by the bidder.

Day Work summary is to be left blank to be filled in by the bidder.

6. Appendix-E to Bid:

If the procuring agency requires partial completion of the works by sections (for example Parts-A, B, C etc.), these should be identified and time for completion thereof, are to be specified, and the blank spaces may be filled in by the procuring agency.

7. Appendix-F to Bid:

The procuring agency may expand the requirements as stated in this Appendix, keeping in view the requirements of the works.

8. Appendix-G to Bid:

It pertains to the list of major equipments to be provided by the bidder if applicable. All blank spaces are to be filled in by the bidder.

9. Appendix-H to Bid:

The bidder has to provide details about camps and housing facilities. Procuring agency may modify the requirements as stated in this Appendix, keeping in view requirements of the works.

10. Appendix-I to Bid:

The bidder has to provide list of sub-contractors along with the details of works assigned. The blank spaces are to be filled in by the bidder.

11. Appendix-J to Bid:

The bidder has to provide the estimated value of work to be executed in the period mentioned therein. The blank spaces are to be filled in by the bidder.

12. Appendix-K to Bid:

The bidder has to provide the organizational chart for supervisory staff and labour. The blank spaces are to be filled in by the bidder.

13. Appendix-L to Bid:

Procuring agency shall provide the Integrity Pact form duly signed, stamped and submit the same along with the bid.

D. Forms

1. Bid Security:

Procuring agency, before issuing the bidding documents, should fill in following blank spaces:

- (a) Amount/ Percentage of bid security, in words as well as figures, which should be the same as provided at Sub-Para A.5 above.
- (b) Bid Reference Number should be the same as per Sub-Para B.7 above.
- (c) Standard Forms of Securities provided in this document are to be issued by a scheduled bank.

E. Special Conditions of Contract

1. Name and full address of the procuring agency as well as that of the Engineer in charge or in case a consultant is hired by the procuring agency, then Consultant's Engineer, as the case may be, should be filled in by the procuring agency in the blank spaces provided under Sub-Para (a) (i) and (iv) of Sub-Clause 1.1 of SCC.
2. Referring to first paragraph of Sub-Clause 3.1 of GCC, information as applicable is provided there under.
3. Referring to Sub-Clause 1.5 of GCC, the procuring agency may add, in the order of priority, such other documents which form part of the contract.
4. Referring to 8.3 of GCC, the procuring agency should specify the form in which the programme is to be submitted by the bidder, e.g., Critical Path Method (CPM), Bar Chart or Programme Evaluation and Review Technique (PERT).
5. (a) Referring to Sub-Clause 5.3 of GCC, if the procuring agency desires
The Bidder to use the services of nominated subcontractor(s), the procuring agency should make necessary provisions of provisional sums and provide blank spaces to be filled in the percentage rate(s) and estimated amounts, resulting there from in Appendix-D to Bid. The blank spaces for the rate(s) and the estimated amount(s) shall be filled in by the bidder.

(b) Suitable text referring to such provisions should be added in SCC.
If provisional sums and Day Work are not to be provided, then same should be mentioned in special conditions of contract.
6. **Mobilization Advance/Advance Payment:**

Procuring agency shall extend mobilization advance to the contractor *on submission of Bid Bond/ Bank Guarantee.*

7. Referring to 20.6 of GCC, the procuring agency should state the venue of Arbitration, which should be located within the province of Sindh and according to Arbitration Act, 1940 (up dated from time to time).

8. Addresses of the procuring agency and the Engineer or in case a consultant is hired by the procuring agency, then Consultant's are to be Engineer entered by the procuring agency to completely fill in the blanks in Sub-Clause 1.3.

F. Specifications.

To be prepared and incorporated by the procuring agency.

(Precise and clear specifications are prerequisite for bidders to respond realistically and competitively to the requirements of the procuring agency without qualifying or conditioning their bids. In the context of both national and international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of materials, plant, other supplies, and workmanship to be provided. Only if this is done, the objectives of economy, efficiency and equality in procurement will be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation be facilitated. The specifications should require that all materials, plant, and other supplies to be incorporated in the works are new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the contract. A clause setting out the scope of the works is often included at the beginning of the specifications, and it is customary to give a list of the drawings. Where the contractor is responsible for the design of any part of the permanent works, the extent of his obligations must be stated.

Specification shall be generic and shall not include references to brand names, model numbers, catalogue numbers or similar classifications. However, if the procuring agency is convinced that the use of or a reference to a brand name or catalogue number is essential to complete an otherwise incomplete specification, such use or reference shall be qualified.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for materials, plant, other supplies, and workmanship, recognized international standards should be used as much as possible. The specifications shall consider all site conditions, but not limited to seismic and weather conditions, and environmental impact. Where other particular standards are used, whether national or other standards, the specifications should state that materials, plant, other supplies, and workmanship meeting other recognised standards, and which ensure equal performance, to the mentioned standards, will also be acceptable.)

G. Drawings

To be prepared and incorporated by the procuring agency.

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INVITATION FOR BIDS

NOTICE INVITING TENDERS

Date: 25-05-2023

Federal/Provincial/Local Government Funds/ Loans / Grant No: Prov-ADP-2371/2022-23

Bid Reference No: SE/ED/KDA/2023/72/L

1. The **SUPERINTENDING ENGINEER, ENGINEERING DEPARTMENT, KARACHI DEVELOPMENT AUTHORITY (K.D.A)**
(Name of Procuring Agency)
(The “Procuring Agency”) has received/ applied for loan/grant/funds from the **Local Government** towards the cost of 1249.959 (Million)
“CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTRICT CENTRAL (2371).” and it is intended that part of the proceeds of the loan/grant/funds will be applied to eligible payments under the contract for the **Civil Work**. Bidding is open to all interested bidders.
2. Procuring agency invites sealed bids from interested firms or persons licensed by the Pakistan Engineering Council (PEC) in the category **C1** or above for the works and in Codes **CE-01,CE09,CE-10 & EE-06** and registered with relevant tax authorities. A foreign bidder is entitled to bid only in a joint venture with a Pakistani Firm in accordance with the relevant provisions of PEC by-laws.
3. Bidders may obtain information by acquiring the bidding documents (BD) from the Office of the procuring agency, at
Office of The Superintending Engineer, Engineering Department karachi Development Authority, Room No. 406, 4th Floor, Civic Center Building, Gulshan-e-Iqbal, Karachi.
(Mailing Address)
4. A complete set of BD may be purchased by an interested bidder on submission of a written application to the above office and upon payment of a non-refundable fee of Rs. 5,000/-.
(Insert Amount)
5. All bids must be accompanied by a bid security in the amount of Rs. 5% or an equivalent amount in a freely convertible currency, and must be delivered to **Office of The Chief Engineer Committee, Room No. 401, 4th Floor, Civic Center Building, Gulshan-e-Iqbal, Karachi.** at or before **11.00** hours, on **15-06-2023**. Bids will be opened at **11.30** hours on same day in the presence of bidders’ representatives who choose to attend, at the same address.
6. Procuring agency reserves right to annul the bidding process and reject all bids or proposals, as per SPP Rules 2010.

[Note: the bids shall be opened not later than one hour after the deadline for submission of bids]

**INSTRUCTIONS
TO
BIDDERS**

INSTRUCTIONS TO BIDDERS

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

A. GENERAL

IB.1 Scope of Bid

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

IB.2 Source of Funds

- 2.1 Procuring agency has received/allocated/] applied for loan/grant/ Federal/ Provincial/Local Government funds from the source(s) indicated in the bidding data in various currencies towards the cost of the project /scheme specified in the bidding data, and it is intended that part of the proceeds of this loan/grant/funds will be applied to eligible payments under the contract for which these bidding documents are issued.

IB.3 Eligible Bidders

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

Firms and individuals, national or international, may be allowed to bid for any project where international competitive bidding is feasible. Any conditions for participation

shall be limited to those that fulfill are the assent contract in question.

- (a) Bidders may be excluded if;
 - (i) as a matter of law or official regulations, commercial relations are prohibited with the bidder’s government in case of ICB, or
 - (ii) a firm is blacklisted/ debarred by the procuring agency and the matter has been reported to the Authority, subject to Rule 30 of Sindh Public Procurement Rules 2010.

- (b) Government-owned enterprises or institutions may participate only if they can establish that they are;
 - (i) legally and financially autonomous, and
 - (ii) operate under commercial law.

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

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

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

IB.4 One Bid per Bidder

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

IB.5 Cost of Bidding

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

IB.6 Site Visit

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

B. BIDDING DOCUMENTS

IB.7 Contents of Bidding Documents (SSP RULE 21)

7.1 The bidding documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any addenda issued in accordance with Clause IB.9.

- a. Instructions to Bidders.
- b. Bidding Data.
- c. General Conditions of Contract, Part-I (GCC).
- d. Special Conditions of Contract, Part-II (SCC)
- e. Specifications.
- f. Form of Bid and Appendices to Bid.
- g. Bill of Quantities (Appendix-D to Bid).
- h. Form of Bid Security.
- i. Form of Contract Agreement.
- j. Forms of Performance Security, Mobilization Advance Guarantee, Integrity Pact and Indenture bond for secured advance.
- k. 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 IB.26, bids which are not substantially responsive to the requirements of the BD will be rejected.

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

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

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

IB.9 Addendum/Modification of Bidding Documents:

9.1 At any time prior to the deadline for submission of bids, the procuring agency may, for any reason, whether at his own initiative or in response to a clarification requested by a interested bidder, modify the bidding documents by issuing addendum.

9.2 Any addendum thus issued shall be part of the bidding documents pursuant to sub-clause IB 7.1 hereof and shall be communicated in writing to all bidders. Interested bidders shall acknowledge receipt of each addendum in writing to the procuring agency.

9.3 To afford bidders reasonable time in which to take an addendum into account in preparing their bids, the procuring agency may extend the deadline for submission of bids in accordance with IB.20

C. PREPARATION OF BIDS

IB.10 Language of Bid

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

IB.11 Documents Accompanying the Bid

11.1 Each bidder shall:

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

And

- (c) furnish a technical proposal taking into account the various Appendices to Bid specially the following:

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

and other pertinent information such as mobilization programme etc;

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

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

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

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

IB.12 Bid Prices

- 12.1 Unless stated otherwise in the bidding documents, the contract shall be for the whole of the works as described in IB 1.1 hereof, based on the unit rates or prices submitted by the bidder or percentage quoted above or below on the rates of Composite Schedule of Rates (CSR), as the case may be.
- 12.2 The bidders shall fill in rates and prices for all items of the works described in the Bill of Quantities. Items against which no rate or price is entered by a bidder will not be paid for by the procuring agency when executed and shall be deemed to be covered by rates and prices for other items in the Bill of Quantities. In case of Composite Schedule of Rates, if

the bidder fails to mention the percentage above or below, it shall be deemed to be at par with the rates of Composite Schedule of Rates.

- 12.3 The bid price submitted by the contractor shall include all rates and prices including the taxes. All duties, taxes and other levies payable by the contractor under the contract, or for any other cause during the currency of the execution of the work or otherwise specified in the contract as on the date seven days prior to the deadline for submission of bids.

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

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

IB.13 Currencies of Bid and Payment

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the works supplied from outside the procuring agency's country (referred to as "Currency Requirements") shall in the Bid indicate the proportion of the bid price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the bidder's country home or, (ii) at the bidder's option provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in the bid.

- 13.2 The rates of exchange to be used by the bidder for currency conversion shall be the selling rates published and authorized by the State Bank of Pakistan prevailing on the date, 07 (seven) days prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of the contract.

IB.14 Bid Validity

- 14.1 Bids shall remain valid for the period stipulated in the bidding data from the date of opening of bid specified in clause IB.23.
- 14.2 In exceptional circumstances, prior to expiry of the original, the procuring agency may request the bidders to extend the period of validity for a specified additional period, which shall not be for more than one third of the original period of bid validity. The request and the responses thereto,

shall be made in writing. A bidder may refuse the request without the forfeiture of the bid security. In case, a bidder agreed to the request, shall not be required or permitted to modify the bid, but will be required to extend the validity of the bid security for the period of the extension, and in compliance with Clause IB.15 in all respects.

IB.15 Bid Security

- 15.1 Each bidder shall furnish, as part of the bid, a bid security in the amount stipulated in the bidding data in Pak Rupees or an equivalent amount in a freely convertible currency.
- 15.2 The bid security shall be at the option of the bidder, in the form of deposit at call, Pay order or a bank guarantee issued by a Scheduled Bank in Pakistan or from a foreign bank duly counter guaranteed by a Scheduled Bank in Pakistan in favour of the procuring agency, which should commensurate with the bid validity period. The bank guarantee for bid security shall be acceptable in the manner as provided at Annexure BS-1
- 15.3 Any bid not accompanied by an acceptable bid security shall be rejected by the procuring agency as non-responsive.
- 15.4 Bid security shall be released to the unsuccessful bidders once the contract has been signed with the successful bidder or the validity period has expired.
- 15.5 The bid security of the successful bidder shall be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.
- 15.6 The bid security may be forfeited:
 - (a) if the bidder withdraws his bid except as provided in sub- clause IB 22.1;
 - (b) if the bidder does not accept the correction of his bid price pursuant to sub-clause IB 27.2 hereof; or
 - (c) In the case of successful bidder, if he fails within the specified time limit to:
 - (i) furnish the required Performance Security; or
 - (ii) sign the Contract Agreement.

IB.16 Alternate Proposals/Bids

- 16.1 Each bidder shall submit only one bid either by himself, or as a member of a joint venture, until and unless they have been requested or permitted for alternative bid, then he has to purchase separate bidding documents and alternate bid shall be treated as separate bid.

- 16.2 Alternate proposals are allowed only for procurement of works where technical complexity is involved and more than one designs or technical solutions are being offered. Two stage two envelope bidding procedure will be appropriate when alternate proposal is required.
- 16.3 Alternate bid(s) shall contain (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details / conditions, provided that the total sum entered on the Form of Bid shall be that which represents complete compliance with the bidding documents.

IB.17 Pre-Bid Meeting

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

IB.18 Format and Signing of Bid

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the contract strictly in accordance with the bidding documents.
- 18.2 All appendices to bid are to be properly completed and signed.
- 18.3 Alteration is not to be made neither in the form of bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 18.4 Each bidder shall prepare by filling out the forms without alterations and shall provide an original copy along with photocopies as per the requirement of the procuring agency specified in the bidding data. The original as well as copies of the document shall be clearly marked as “ORIGINAL” and „COPY” may be. If there is any discrepancy between original and copy (ies) then the original shall prevail.
- 18.5 The original and all copies of the bid shall be typed or written in indelible ink (in the case of copies, Photostats are also acceptable) and shall be signed by a person(s) duly authorized to sign on behalf of the bidder pursuant to sub- clause IB 11.1(a) hereof. All pages of the bid shall be initialed and stamped by the person(s) signing the bid.

- 18.6 The bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the procuring agency, or as are necessary to correct errors made by the bidder. Such corrections shall be initialed by the person(s) signing the bid.
- 18.7 Bidders shall indicate in the space provided in the Form of Bid their full and proper postal addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the contract is to be sent.
- 18.8 Bidders should retain a copy of the bidding documents as their file copy.

D. SUBMISSION OF BIDS

IB.19 Sealing and Marking of Bids

- 19.1 Each bidder shall submit his bid as under:
- (a) ORIGINAL and _____COPIES of the bid shall be separately sealed and put in separate envelopes and marked as such.
 - (b) The envelopes containing the ORIGINAL and COPIES shall be put in one sealed envelope and addressed as given in sub –clause IB 19.2 hereof.
- 19.2 The inner and outer envelopes shall:
- (a) be addressed to the procuring agency at the address provided in the bidding data;
 - (b) bear the name and identification number of the contract as defined in the bidding data; and
 - (c) provide a warning not to open before the time and date for bid opening, as specified in the bidding data.
- 19.3 In addition to the identification required in sub- clause IB 19.2 hereof, the inner envelope shall indicate the name and postal address of the bidder to enable the bid to be returned unopened in case Clause IB.21it is declar
- 19.4 If the outer envelope is not sealed and marked as above, the procuring agency will assume no responsibility for the misplacement or premature opening of the Bid.

IB.20 Deadline for Submission of Bids

- 20.1 (a) Bids must be received by the procuring agency at the address specified not later than the time and date stipulated in the bidding data,

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

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

IB.21 Late Bids

- (a) any bid received by the procuring agency after the deadline for submission of bids prescribed in to clause IB 20 shall be returned unopened to such bidder.
- (b) delays in the mail, 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 submit be the bid the in time. bidder

IB.22 Modification, Substitution and Withdrawal of Bids

- 22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the procuring agency prior to the deadline for submission of bids.
- 22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer and inner envelopes additi “SUBSTITUTION” or “WITHDRAWAL” as appropriate.
- 22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with to sub - clauses IB 22.1 and IB 27.2.
- 22.4 Withdrawal of a bid during the interval between the deadlines for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the bid security in pursuance to clause IB 15.

E. BID OPENING AND EVALUATION.

IB.23 Bid Opening

- 23.1 Procuring agency will open the bids, including withdrawals, substitution and modifications made pursuant to Clause IB.22, in the presence of representatives who choose to attend, at the time, date and location stipulated in the bidding data. The bidders or their representatives who are in attendance shall sign an attendance sheet.
- 23.2 Envelopes marked "MODIFICATION", or "WITHDRAWAL" "SUBSTITUTION" shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to clause IB.22 shall not be opened.
- 23.3 Procuring agency shall read aloud the name of the bidder, total bid price and price of any Alternate Proposal(s), if any, discounts, bid modifications, substitution and withdrawals, the presence or absence of bid security, and such other details as the procuring agency may consider appropriate, and total amount of each bid, and of any alternative bids if they have been requested or permitted, shall be read aloud and recorded when opened.
- 23.4 Procuring Agency shall prepare minutes of the bid opening, including the information disclosed to those present in accordance with the sub-clause IB.23.3.

IB.24 Process to be Confidential. (SPP Rule 53)

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

IB.25 Clarification of Bid (SPP Rule 43)

- 25.1 To assist in the examination, evaluation and comparison of bids, the procuring agency may, at its discretion, ask any bidder for clarification of the bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance

of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the procuring agency in the evaluation of the bids in accordance with clause IB 28.

IB.26 Examination of Bids and Determination of Responsiveness

- 26.1 Prior to the detailed evaluation of bids, the procuring agency will determine whether the bidder fulfills all codal requirements of eligibility criteria given in the tender notice such as registration with tax authorities, registration with PEC (where applicable), turnover statement, experience statement, and any other condition mentioned in the NIT and bidding document. If the bidder does not fulfill any of these conditions, it shall not be evaluated further.
- 26.2 Once found to be fulfilling the eligibility criteria, as mentioned in sub-clause 26.1, the bids of eligible bidders will be evaluated for technical responsiveness as per specification and criteria given in the bidding documents. Technical and financial evaluations may be carried out in accordance with single stage-single one envelope, single stage-two envelopes, two stage or two stage-two envelopes bidding procedures, depending on the selection procedure adopted by the procuring agency.
- 26.3 A bid will be considered technically responsive if it (i) has been properly signed; (ii) is accompanied by the required bid security; and (iii) conforms to all the terms, conditions and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the works; (ii) which limits in any substantial way, inconsistent with the bidding documents, the procuring agency's rights or the bidder's contract; or obligations (iii) adoption/rectification under whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.
- 26.4 If a bid has major deviations to the commercial requirements and technical specifications will be considered technically non responsive. As a general rule, major deviations are those that if accepted, would not fulfill the purposes for which the bid is requested, or would prevent a fair comparison or affect the ranking of the bids that are compliant with the bidding documents.
- 26.5
- (A). Major (material) Deviations include:-**
- (i) has been not properly signed;
 - (ii) is not accompanied by the bid security of required amount and manner;
 - (iii) stipulating price adjustment when fixed price bids were called for;
 - (iv) failing to respond to specifications;
 - (v) failing to comply with Mile-stones/Critical dates provided in Bidding Documents;
 - (vi) sub-contracting contrary to the Conditions of Contract specified in Bidding Documents;
 - (vii) refusing to bear important responsibilities and liabilities allocated in the Bidding Documents, such as performance guarantees and insurance coverage;

- (viii) taking exception to critical provisions such as applicable law, taxes and duties and dispute resolution procedures;
- (ix) a material deviation or reservation is one :
 - (a) which affect in any substantial way the scope, quality or performance of the works;
 - (b) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

(B) Minor Deviations

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

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

IB.27 Correction of Errors before Financial Evaluation

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

- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
- (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the procuring agency there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.

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

IB.28 Financial Evaluation and Comparison of Bids

28.1 The procuring agency will evaluate and compare only the Bids determined to be substantially responsive in accordance with clause IB 26.

28.2 In evaluating the Bids, the procuring agency will determine for each bid the evaluated bid price by adjusting the bid price as follows:

- (a) making any correction for errors pursuant to clause IB 27;
 - (b) excluding provisional sums (if any), for contingencies in the Summary Bill of Quantities, but including competitively priced Day work; and
 - (c) making an appropriate adjustment for any other acceptable variation or deviation.
- 28.3 The estimated effect of the price adjustment provisions of the conditions of contract, applied over the period of execution of the contract, shall not be taken into account in bid evaluation.
- 28.4 If the bid of the successful bidder is seriously unbalanced in relation to the procuring agency's estimate of the cost of contract, work the to procuring agency may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the procuring agency may require that the amount of the Performance Security set forth in clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the procuring agency against financial loss in the event of default of the successful bidder under the contract.
- 28.5 Bidders may be excluded if involved in **“Corrupt and Fraudulent”** means either one or any combination of the practices given below SPP Rule2(q);
- (i) **Coercive “ Practice”** means any impairing or harm in harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;
 - (ii) **Collusive “ Practice”** means any arrangement between procurement process or contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;
 - (iii) **“Corrupt means Practice”** the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;
 - (iv) **Fraudulent“** means **Practice”** any or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (v) **“Obstructive means Practice”** harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to

materially impede the exercise of inspection and audit rights provided for under the Rules.

28.6 Evaluation Report (SPP Rule 45)

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

F. AWARD OF CONTRACT

IB.29 Award (SPP Rule 49)

29.1 Subject to clauses IB 30 and IB 34 and provision of the rule: The procuring agency shall award the contract to the bidder whose bid has been determined to be substantially responsive to the bidding documents, and who has offered the lowest evaluated bid, but not necessarily the lowest submitted price, within the original or extended period of bid validity. Provided that such bidder has been determined to be eligible in accordance with the provisions of clause IB 03 and qualify pursuant to sub-clause IB 29.2.

29.2 Procuring agency, at any stage of the bid evaluation, having credible reasons for or having *prima facie* evidence of any deficiency(ies) in contractor's ca require the contractor to provide information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not for the said project.

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

IB.30 Procuring Agency's Right reject all to Bids or Annul/Cancellation the Bidding Process (SPP Rule 25)

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

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

- 31.1 Prior to expiry of the period of bid validity, including extension, prescribed by the procuring agency, the procuring agency shall notify the successful bidder in writing (“Letternce”)of Accept bid the has been this accepted. This letter shall mention the sum which the procuring agency will pay to the contractor in consideration of the execution and completion of the worksby the contractor as prescribed by the contract hereinafter and in the conditions of contract(called the “Contra).
- 31.2 No negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, procuring agency may hold meetings to clarify any item in the bid evaluation report.
- 31.3 The notification of award and its acceptance by the bidder will constitute the formation of the contract, binding the procuring agency and the bidder till signing of the formal Contract Agreement.
- 31.4 Upon furnishing by the successful bidder of a Performance Security and signing of the contract, the procuring agency will promptly notify the name of the successful bidder to all bidders and return their bid securities accordingly.
- 31.5 Within seven days of the award of contract, procuring agency shall publish on the website of the Authority and on its own website, if such a website exists, the results of the bidding process, identify the bid through procurement identifying numbers, and the following information:
- (1) Evaluation Report;
 - (2) Form of Contract and letter of Award;
 - (3) Bill of Quantities or Schedule of Requirement.

31.6 Debriefing (SPP Rule 51).

- (a) A bidder may ask the procuring agency for reasons for non acceptance of his bid and may request for a debriefing meeting and procuring agency shall give him the reasons for such non acceptance, either in writing or by holding a debriefing meeting with such a bidder.
- (b) The requesting bidder shall bear all the costs of attending such a debriefing.

IB.32 Performance Security (SPP Rule 39)

- 32.1 The successful bidder shall furnish to the procuring agency a Performance Security in the form of pay order or demand draft or bank guarantee, and the amount stipulated in the bidding data and the Conditions of Contract within a period of 28 days after the receipt of Letter of Acceptance.
- 32.2 Failure of the successful bidder to comply with the requirements of Sub-clause IB.32.1 or clauses IB 33 or IB 35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.
- 32.3 Validity of performance security shall extend at least ninety says beyond the date of completion of contract, or as mentioned in the bidding data to cover defects liability

period or maintenance period subject to final acceptance by the procuring agency.

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

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

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

33.4 Stamp Duty.

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

IB.34 General Performance of the Bidders

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

IB.35 Integrity Pact (SPP Rule 89)

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

IB.36 Instructions not Part of Contract

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

IB.37 Arbitration (SPP Rule 34)

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

BIDDING DATA

NOTES ON BIDDING DATA

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

The procuring agency should provide in the bidding data information and requirements specific to the circumstances of the procuring agency, the processing of the bid, the applicable rules regarding bid price and currency, and the bid evaluation criteria that will apply to the bids. In preparing this section, the following aspects should be checked:

- (1) Information that specifies and complements the provisions of section; Instruction to Bidders must be incorporated.
- (2) Amendments and/or supplements, if any, to the provisions of Instructions to Bidders, necessitated by the circumstances of each individual contract, can be introduced only in this section since Instructions to Bidders will remain unchanged.

Contact/Bidding Data

(This section should be filled in by the procuring agency before issuance of the bidding documents.) The following specific data for the works to be tendered shall complement, amend, or supplement the provisions in the Instructions to Bidders. Wherever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

[Instructions are provided, as needed, in italics.]

Instructions to Bidders

Clause Reference

- 1.1 Name and address of the procuring agency:
SUPERINTENDING ENGINEER, ENGINEERING DEPARTMENT, KARACHI DEVELOPMENT AUTHORITY (K.D.A).
- 1.2 Name of the Project and Summary of the works:
CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTRICT CENTRAL.
- 2.1 Name of the Borrower/Source of Financing/Funding Agency/Funding Source;
Provincial ADP-2371/ 2022-23
- 2.1 Amount and Type of Financing/Scheme Cost and Allocated Funds.
- 8.1 Time limit for clarification:
The written clarification should reach the addressee of the NIT on any working day but not later than (03) Three working days prior to last of bid submission.
- 10.1 Bid language:
English National/ International Competitive Bidding
[The same language in which the bidding documents are written in English, should be used in National/ International Competitive Bidding.]
- (a) Prequalification Information to be updated:
Prequalification: N. /A
Single Stage Two Envelope System
- Financial Criteria**
- 11.1 (b) Furnish and Technical Proposal (*in case of two envelope method*) or Company Profile in single stage two envelope:

The bidder has to submit a technical proposal in sufficient detail to demonstrate the adequacy of the bid in meeting requirements for timely completion of the works.
- 13.1 Bidders to quote entirely in **Pak. rupees** but specify the percentages of foreign currency they require, if applicable.
- 14.1 Period of Bid Validity:
90 days
- 15.1 Amount of Bid Security:

5%

17.1 Venue, time, and date of the pre-Bid meeting: N/A

18.4 Number of copies of the bid to be completed and returned:
one original and **NIL** copies

19.2 (a) Procuring Agency's address for the purpose of bid submission:

Office of The Chief Engineer Committee, Room No. 401, 4th Floor, Civic Center Building, Gulshan-e-Iqbal, Karachi.

(b) Name and Identification Number of the Contract: SE/ED/KDA/72/L Dated:25-05-2023

20.1 (a) Deadline for submission of bids:

@ 11:00 a.m. 15-06-2023

[The time and date should be the same as that given in the Invitation for Bids unless subsequently amended pursuant to IB.20.2.]

Venue, time, and date of bid opening:

Office of The Chief Engineer Committee, Room No. 401, 4th Floor, Civic Center Building, Gulshan-e-Iqbal, Karachi.

@ 11:30 a.m. on 15/06/2023

[Date should be the same as that given for the deadline for submission of Bids [IB.20]

but time for opening of bids shall be at least thirty minutes after the time for the deadline for submission of bids, but not later than one hour].

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

5%

32.3 Stamp duty

0.35% will be paid by successful bidder as stamp duty.

[% will depend upon the rules]

Note: All Conditions given in the Bidding data are Mandatory for Eligibility.

EVALUATION / QUALIFICATION CRITERIA

Evaluation/Qualification Criteria.

1. Evaluation/Qualification Criteria: Based on Pass/Fail system.

1.1 Mandatory Provisions/Eligibility

(i) Registration with PEC:

Bidders must possess valid registration certificate of PEC in the category C1 or above and in discipline (CE01, CE09, CE10, EE06 and Electric license from GOS), for at least 10 years. (Attach PEC registration certificate for last 10 years).

Must attach Valid/Registration with Pakistan Engineering Council in category and discipline/code define as above for the year 2023. (Submission of both sides of PEC Certificate)

Single Entity: Must Meet

Joint Venture: Lead Member must meet, other members (C1)

(ii) Registration with FBR for Income Tax and Sales Tax Department:

Bidders must possess valid registration certificate from income tax authority (NTN). (Attach NTN certificate) and certificate of registration from Sindh Revenue Board (SRB).

(iii) Valid professional Tax Certificate/Receipt of Payment:

Single Entity: Must Meet

Joint Venture: Lead Member must meet, other members must meet

(iv) Conflict of Interest:

As per SPPRA Rule 2 (1) (l), Bidder shall not have the Conflict of Interest. The "Conflict of Interest means:

- a) where a contractor, supplier or consultant provides, or could provide, or could be perceived as providing biased professional advice to a procuring agency to obtain an undue benefit for himself or those affiliated with him;
- b) receiving or giving any remuneration directly or indirectly in connection with the assignment except as provided in the contract;
- c) any engagement in consulting or other procurement activities of a contractor, consultant or service provider that conflicts with his role or relationship with the procuring agency under the contract;
- d) where an official of the procuring agency engaged in the procurement process has a financial or economic interest in the outcome of the process of procurement, in a direct or an indirect manner;"

(Attach Affidavit)

Single Entity: Must Meet

Joint Venture: Lead Member must meet, other members must meet

(ii) Government Owned Enterprises:

In accordance with SPPRA Rule 29(2) “Government owned enterprises or institutions may participate only if they can establish that they are;

- a) legally and financially autonomous; and
- b) operate under commercial law;

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

Single Entity: Must Meet

Joint Venture: Lead Member must meet, other members must meet

(iii) Blacklisting:

Bidder is not black listed pursuant to Instructions to Bidders and SPPRA Rule 2 (1) (i). In accordance with SPPRA Rule 2 (1) (i), Blacklisting means:

“Barring a bidder, contractor, consultant or supplier from participating in any future procurement proceedings by the procuring agency” (Attach Affidavit)

Single Entity: Must Meet

Joint Venture: Lead Member must meet, other members must meet

(iv) Litigation History:

All pending litigation shall in total not represent more than fifty (50) % of the Bidder’s net worth and shall be treated as resolved against the Bidder. (Provide details or attach Affidavit in case of not applicable)

Single Entity: Must Meet

Joint Venture: Lead Member must meet, other members must meet

(v) History of Non-Performing Contracts:

All Non-performance of a contract did not occur within the last 5 years prior to the deadline for bid submission based on all information on fully settled disputes or litigation. A fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract and where all appeal instances available to the applicant have been exhausted. (Provide details or attach Affidavit in case of not applicable)

The past performance of the applicant on all completed and ongoing projects may also be checked in coordination with other government departments.

Single Entity: Must Meet

Joint Venture: Lead Member must meet, other members must meet.

(v) Failure to Sign Contracts:

Not being under execution of a Bid Securing Declaration for last 5 years. (Provide details or attach Affidavit in case of not applicable)

Single Entity: Must Meet

Joint Venture: Lead Member must meet, other members must meet

Bid Security:

Bid Security in shape of pay-order in favor of KDA shall be enclosed as follows:

- a) 25% of bid amount shall be enclosed with Technical Proposal as part of Bid Security. Otherwise the bid will not be evaluated.
- b) Balance Bid Security Amount (after deducting 25% of bid amount) shall be enclosed with Financial Proposal. In case of noncompliance, the part of Bid Security attached with the technical proposal shall be forfeited.
- c) The Bid Security of qualified and not qualified both will be retained till

1.2 Financial Situation

(i) Average Annual Construction Turnover: PKR 1500 million

(Minimum average annual construction turnover as mentioned above, calculated as total certified payments received for contracts in progress or completed, within the last five (05) years, Submit Audited Balance Sheet of the Bidder)

Single Entity: Must Meet

Joint Venture: Lead Member Must Meet 75%, other members must meet 25% each member

Single Entity: Must Meet

(ii) Cash Flow Requirement: PKR 750 million

Single Entity: Must Meet

Joint Venture: Lead Member Must Meet 75%, other members must meet 25% each member

1.3 General Construction Experience

Bidder shall be in business of construction at least for last 10 years.

Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last ten [10] years prior to the bid submission deadline, and with activity in at least nine (9) months in each year. (Attach Articles of Incorporation or Documents of Constitution, and documents of registration of the legal entity. In case of JV, letter of intent to form JV or JV agreement.)

Single Entity: Must Meet

Joint Venture: Lead Member Must Meet, other members 3 years

1.4 Specific Construction Experience

Participation as contractor or subcontractor, in at least three [03] contracts within the last five [5] years, with a value of the largest work of at least amount as mentioned below, that have been successfully and substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods / technology or other characteristics.

Value of the largest similar work executed in last 5 years; PKR 1500 million (Submit verified completion certificates and maintenance certificates)

Single Entity: Must Meet

Joint Venture: Lead Member Must Meet 75%, other members meet 25% of contract value (one contract).

1.5 Key Personnel Qualification & Experience

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

- | | | |
|--------|---------------------------------------|---|
| (i) | Project Manager: | Qualification BE (Civil) with 20 years experience (10 years relevant experience). |
| (ii) | Electrical Engineer: | BE (Elect.) with 10 years experience. |
| (iii) | Planning Engineer: | BE (Civil) with 10 years experience. |
| (iv) | Contracts Engineer: | BE (Civil) with 15 years experience. |
| (v) | Structures Engineer: | BE (Civil) with 15 years experience with 10 years relevant experience. |
| (vi) | Highway Engineer: | BE (Civil) with 15 years experience with 10 years relevant experience of roads. |
| (vii) | Material Engineer: | MSc. (Geology) with 15 years experience |
| (viii) | Environmental Expert: | Qualification: BE (Civil) with 10 years experience. |
| (ix) | Social Development Specialist: | Qualification: MSc (Social Science) with 10 years experience. |
| (x) | Health & Safety Expert: | Qualification: BE Civil (Environmental Engineering) OR Environmental Science. At least 5 years post qualification experience. |

(For all Engineer's submit PEC registration certificate and Brief CVs of personnel be attached as per form provided in Appendix M).

Single Entity: Must Meet

Joint Venture: Must meet collectively

1.6 Plant & Equipment

The Bidder must demonstrate that it has the key equipment listed hereafter (Submit Ownership Document/Rental Agreement/Lease Document)

Sr. No.	Description of Equipment	Capacity & Horse Power	Minimum Requirement (Qty. in No.)
1	Bulldozer	200 HP	2
2	Motor Grader	140 HP	3
3	Vibratory Roller	10 - 12 Ton	3
4	Pneumatic Roller	18 - 21 Ton	3
5	Dump Truck	18 Ton	10
6	Excavator	105 HP	2
7	Asphalt Paver	145 HP	2
8	Concrete Batching Plant	30 Cum Per Hr	1
9	Concrete Transit Mixer	6 Cum	2
10	Concrete Vibrator	5 HP	2
11	Concrete Mixer	1 Cm	2
12	Water Pump	4" Delivery	2
13	Concrete Pump		2

Note: Total equipment available with the bidder is to be listed along with its current mobilization on on-going projects. The Bidder shall provide further details of proposed items of equipment using the relevant Form in Appendix M.

Single Entity: Must Meet

Joint Venture: Must meet collectively

**FORM OF BID
AND
APPENDICES TO BID**

FORM OF BID

Bid Reference No. SE/ED/KDA/2023/72/L, Dated:25-05-2023.

**CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTRICT
CENTRAL (2371).**

To:

1. Having examined the bidding documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda Nos. _____ for the execution of the above-named work, we/I, the undersigned, offer to execute and complete the work and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings, Bill of Quantities and Addenda for the sum of Rs. _____ (Rupees _____) or such other sum as may be ascertained in accordance with the said conditions.
2. We/I understand that all the Appendices attached hereto form part of this bid.
3. As security for due performance of the undertakings and obligations of this bid, we/I submit herewith a bid security in the amount of Rupees _____ (Rs. _____) drawn in your favour or made payable to procuring agency and valid for a period of _____ days beginning from the date, bid is opened.
4. We/I undertake, if our bid is accepted, to commence the works and to complete the whole of the works comprised in the contract within the time stated in Appendix-A to Bid.
5. We/I agree to abide by this bid for the period of _____ days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We do hereby declare that the bid is made without any collusion, comparison of figures or arrangement with any other bidder for the works.
We understand that you are not bound to accept the lowest or any bid you may receive.
9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause 10 of Conditions of Contract for the due performance of the Contract.
10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution

of the joint venture shall not be altered without the prior consent of the procuring agency.
(Please delete this in case of Bid form a single bidder)

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

Dated this _____ day of _____ 20 _____

Signature: _____

(Name of Bidder in Block Capitals)
(Seal)

Address: _____

Witness:

Signature: _____

Name: _____

Address: _____

Occupation: _____

SPECIAL STIPULATIONS

Clause

Conditions of Contract

1.	Engineer representing Consulting Firm hired by the procuring agency to issue variation in case of emergency.	3.1	<i>Up to 5% of the contract price stated in the Letter of Acceptance.</i>
2.	Amount of Performance Security	4.2	<i>Up to 10% of contract price. Total amount including performance security and retention money deducted from bills should not exceed 10% of contract price stated in the Letter of Acceptance.</i>
3.	Time for Furnishing Programme	8.3	Within 42 days from the date of receipt of Letter of Acceptance.
4.	Minimum amount of Third Party Insurance	18.3	Rs. NIL per occurrence with number of occurrences unlimited.
5.	Time for Commencement	8.1	Within 14 days from the date of receipt of Engineer's Commence, this shall be issued within fourteen (14) days after signing of Contract Agreement.
6.	Time for Completion (works & sections)	8.2 & 10.2	546 days from the date of receipt of Engineer's Commence No.
7.	Amount of Liquidity Damages/Delay Damages/Penalties	8.7	That will not be more than 10% of contract price.
8.	Defects Liability Period	11.1	546 days from the effective date of Taking Over Certificate.
9.	Percentage of Retention Money	14.2	10% of the amount of Interim/Running Payment Certificate.
10.	Limit of Retention Money	14.2	5 % of Contract Price stated in the Letter of Acceptance.
11.	Minimum amount of Interim/Running Payment Certificates	14.2	Rs. 15% of the acceptance Contract Amount_____
12.	Time of Payment from Interim/Running Payment Certificate to the procuring agency.	14.7	30 days in case of local currency or 42 days in case of foreign funded projects.
13.	Mobilization Advance.	14.2	10% of Contract Price stated in the Letter of Acceptance.

FOREIGN CURRENCY REQUIREMENTS

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

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

PRICE ADJUSTMENT UNDER CLAUSE 70/13.8
OF CONDITIONS OF CONTRACT

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

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

(To be filled by the procuring agency)

Cost Element	Description	Weight ages	Applicable index
1	2	3	4
(i)	Fixed Portion	0.350	
(ii)	Local Labor		Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement –in bags		“ “ “
(iv)	Reinforcing Steel		“ “ “
(v)	High Speed Diesel (HSD)		“ “ “
(vi)	Bricks		“ “ “
(vii)	Bitumen		“ “ “
(viii)			
	Total	1.000	

Notes:

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

B When Escalation is allowed on the materials only.

Price adjustment on following items shall be allowed:

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

BILL OF QUANTITIES

A. Preamble

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

BILL OF QUANTITIES (SAMPLE)

B. Work Items. (Road /PHE Work)*

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

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

Day work Schedule
Summary Bill of Quantities

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

**Procuring Agency can add and delete the Items as per its requirement.*

BILL OF QUANTITIES (SAMPLE)*

B. Work Items (Buildings)

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

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

Day work Schedule
Summary Bill of Quantities

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

* *Procuring Agency can add and delete the Items as per its requirement*

BILL OF QUANTITIES (SAMPLE)

Bill No. 1 Earthworks/Plinth and Foundation

Item	Description	Unit	Quantity	Rate		Amount
				Rupees in figures	Rupees in words	Rupees
1	2	3	4	5		6
101						
102						
103						
104						
105						
106						
Total for Bill No. 1 (Carried forward to Summary Page)						

BILL OF QUANTITIES (SAMPLE)

Bill No. 2 Hard Crust and Surface Treatment /Ground Floor.

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

BILL OF QUANTITIES (SAMPLE)

Bill No. 3 Culverts and Bridges/First and Subsequent Floors

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

BILL OF QUANTITIES (SAMPLE)

Bill No. 4 Subsurface Drains/ Pipe Laying and Man holes/Internal water Supply and Sanitary Fittings

Item	Description	Unit	Quantity	Rate		Amount Rupees
				Rupees in figures	Rupees in words	
1	2	3	4	5		6
401						
402						
403						
404						
205						
406						
Total for Bill No. 4						
(Carried forward to Summary Page)						

BILL OF QUANTITIES (SAMPLE)

Bill No. 5 Tube wells and Pump-houses/Internal Electrification

Item	Description	Unit	Quantity	Rate		Amount Rupees
				Rupees in figures	Rupees in words	
1	2	3	4	5		6
501						
502						
503						
504						
505						
506						
Total for Bill No. 5 Carried forward to Summary Page)						

BILL OF QUANTITIES (SAMPLE)

Bill No. 6 - Miscellaneous Items

Item	Description	Unit	Quantity	Rate		Amount
				Rupees in figures	Rupees in words	
1	2	3	4	5		6
601	Mobilization Cost					
602						
603						
604						
605						
606						
Total for Bill No. 6						_____
Carried forward to Summary Page)						

BILL OF QUANTITIES (SAMPLE)

Bill No. 7 External Development

Item	Description	Unit	Quantity	Rate		Amount Rupees
				Rupees in figures	Rupees in words	
1	2	3	4	5		6
601	Items of water supply & drainage					
602	Paths & parks					
603	External electrification					
604						
605						
606						
Total for Bill No. 7						
Carried forward to Summary Page) _____						

BILL OF QUANTITIES

C. Day work Schedule

General

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

Day work Labour

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

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

I. Labour

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

Appendix-D to Bid

Day work Material

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

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

II. Materials

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

Day Work Constructional Plant

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

Appendix-D to Bid

SCHEDULE OF DAYWORK RATES

III. Constructional Plant

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

DAYWORK

Summary (Day work)

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

BILL OF QUANTITIES (SAMPLE)**SUMMARY**

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

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

Appendix-E to Bid

PROPOSED CONSTRUCTION SCHEDULE

Pursuant to Sub-Clause 43.1 of the General Conditions of Contract, the works shall be completed on or before the date stated in Appendix-A to Bid. The bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the works and parts of the works may meet procuring agency's

completion targets in days noted below and counted from the date of Notice to Commence (Attach sheets as required for the specified form of Construction Schedule):

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

METHOD OF PERFORMING THE WORK

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

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

LIST OF MAJOR EQUIPMENT –RELATED ITEMS

[The bidder will provide on Sheet 2 of this Appendix a list of all major equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the works. The information shall include make, type, capacity, and anticipated period of utilization for all equipment which shall be in sufficient detail to demonstrate fully that the equipment will meet all requirements of the Specifications.]

Appendix-G to Bid

LIST OF MAJOR EQUIPMENT (SAMPLE)

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						

Appendix-H to Bid

CONSTRUCTION CAMP AND HOUSING FACILITIES

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

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

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

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

Appendix-I to Bid

LIST OF SUBCONTRACTORS

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

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

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

Appendix-J to Bid

ESTIMATED PROGRESS PAYMENTS (SAMPLE)

Bidder's estimate of the value of work whic periods stated below, based on his Programme of the works and the Rates in the Bill of Quantities, expressed in Pakistani Rupees:

Quarter/ Year/ Period	Amounts (in thousands)
1	2
Ist Quarter	
2 nd Quarter	
3 rd Quarter	
4 th Quarter	
5 th Quarter	
6 th Quarter	
7 th Quarter	
8 th Quarter	
9 th Quarter	
Bid Price	

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

(To be filled in by the bidder)

(INTEGRITY PACT)

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

(FOR CONTRACTS WORTH RS. 10.00 MILLION OR MORE)

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

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

Without limiting the generality of the foregoing, [name of Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder,

sponsor or subsidiary, any commission, gratification, bribe, finder’s fee or 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, from Procuring Agency (PA) except that which has been expressly declared pursuant hereto.

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

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

Notwithstanding any rights and remedies exercised by PA in this regard, [name of Supplier/Contractor/Consultant] agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount

equivalent to ten time the sum of any commission, gratification, br kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from PA.

.....
[Procuring Agency]

[Contractor]

FORMS

**BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT
MOBILIZATION ADVANCE GUARANTEE
INDENTURE BOND FOR SECURED ADVANCE**

BID SECURITY
(Bank Guarantee)

Security Executed on _____
(Date)

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

Name of Principal (Bidder) with Address _____

Penal Sum of Security Rupees. _____ (Rs. _____)

Bid Reference No. _____

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

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

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

WHEREAS, the Procuring Agency has required as a condition for considering said bid that the **bidder** furnishes a bid security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the procuring agency, conditioned as under:

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

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

PROVIDED THAT the Surety shall forthwith pay the procuring agency, the said sum upon first written demand of the procuring agency (without cavil or argument) and without requiring the

procuring agency to prove or to show grounds or reasons for such demand, notice of which shall be sent by the procuring agency by registered post duly addressed to the Surety at its address given above.

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

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

SURETY (Bank)

WITNESS:

Signature _____

1. _____

Name _____

Title _____

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2. _____

Name, Title & Address

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

Guarantee No. _____
Executed on _____
Expiry date _____

[Letter by the Guarantor to the Procuring Agency]

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

Name of Principal (Contractor) with address: _____

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

Letter of Acceptance No. _____ Dated _____

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

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

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

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

We, _____ (the Guarantor), waiving all objections and defenses under the Contract, do hereby irrevocably and independently guarantee to pay to the procuring agency without delay upon the procuring agency's first written demand without cavil or arguments and without requiring the procuring agency to prove or to show grounds

or reasons for such demand any sum or sums up to the amount stated above, against the procuring agency's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Procuring Agency's designated Bank & Account Number.

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

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

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

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called _____ day of _____ (month) 20____ between _____ (hereafter called Procuring Agency the") of the one pa _____ (here a part.

WHEREAS the Procuring Agency is desirous that certain works, viz _____ should be executed by the Contractor and has accepted a bid by the Contractor for the execution and completion of such works and the remedying of any defects therein.

NOW this Agreement witnessed-- as follows:

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

X

CA-2

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

Signature of the Contactor

Signature of Procuring Agency

(Seal)

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness:

Witness:

(Name, Title and Address)

(Name, Title and Address)

MOBILIZATION ADVANCE GUARANTEE

Bank Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'Procuring Agency') has entered into a Contract for

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

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

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

AND WHEREAS, _____ (Scheduled Bank in Pakistan)

(hereinafter called the "Guarantor") at the the **procuring agency** agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

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

Notice in writing of any default, of which the procuring agency shall be the sole and final judge, on the part of the Contractor, shall be given by the procuring agency to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

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

The Guarantor's liability under this Guarantee shall not in any case exceed the sum of Rupees _____ (Rs _____).

This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made to the Contractor is fully adjusted against payments from Interim Payment Certificates of the Contractor provided that the Guarantor agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted.

GUARANTOR

- 1. Signature _____
- 2. Name _____
- 3. Title _____

WITNESS

1. _____

Corporate Secretary (Seal)

2. _____
(Name Title & Address)

_____ Corporate Guarantor (Seal)

INDENTURE FOR SECURED ADVANCES.

(For use in cases in which is contract is for finished work and the contractor has entered into an agreement for the execution of a certain specified quantity of work in a given time).

This INDENTURE made theday of
.....20..... BETWEEN(hereinafter called "the Contractor" which expression shall where the context so admits or implied be deemed to include his heirs, executors, administrators and assigns) of the one part and THE GOVERNOR OF SINDH (hereinafter called "the Government" of the other part).

WHEREAS by an agreement, dated (hereinafter called the said agreement, the contractor has agreed to perform the under-mentioned works (hereinafter referred to as the said work):-

(Here enter (the description of the works).¹

AND WHEREAS the contractor has applied to the
.....for an advance tohim of Rupees
(Rs.) on the security of materials absolutely belonging to him and brought by him to the site of the said works the subject of the said agreement for use in the construction of such of the said works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charge) AND WHEREAS the Government has agreed to advance to the Contractor the sum of Rupees, (Rs.
.....) on the security of materials the quantities and other particulars of which are detailed in Part II of Running Account Bill (B). the said works signed by the contractor

Fin R.Form.17.A

Onand on such covenants and conditions as are hereinafter contained and the Government has reserved to itself the option of marking any further advance or advances on the security of other materials brought by the Contractor to the site of the said works.

NOW THIS INDENTURE WTTNESSETH that in pursuance of the said agreement and in consideration of the sum of (Rs.onorbefore) the execution of these presents paid to the Contractor by the Government (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid (all of which advances are hereinafter collectively referred to as the said amount) the Contractor doth hereby assign unto the Government the said materials by way of security for the said amount.

And doth hereby covenant and agree with the Government and declare ay follow :-

- (1) That the said sum of Rupees.Rs.
.....) so advanced by the Government to the Contractor as aforesaid and all or any further sum or sums which may be advanced as aforesaid shall be employed by the contractor in or towards expending the execution of the said works and for no other purpose whatsoever.

- (2) That the materials detailed in the said Running Account Bill (B) which have been offered to and accepted by (he Government as security for the said amount are absolutely by the Contractors own property free from encumbrances of any kind and the Contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the contractor hereby agrees, at all times, to indemnify and save harmless the Government against all claims whatsoever to any materials in respect of which an advance has been made to him as aforesaid.
- (3) That the said materials detailed in the said Running Account Bill (B) and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in *the* execution of the said works in accordance with the directions of the Divisional Officer (hereinafter called the Divisional Officer) and in the terms of the said agreement.
- (4) That the Contractor shall make at his own cost all necessary and adequate arrangement for the proper watch, safe custody and protection against all risks of the said material and that until used in construction as aforesaid the said materials shall remain at jthe site of the said works in the Contractor's custody and at his own risk and on his own responsibility and shall at all times be open to inspection by (he Divisional Officer or any officer authorized by him. In the event of the said materials of any part (hereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof Contractor will forthwith replace the same with other materials of like qualify or repair and make good the same as required by the Divisional Officer and the materials so brought to replace the said materials so repaired and made good shall also be considered as security for the said amount.
- (5) 'Hurt the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional Officer or an officer authorized by him in that behalf
- (6) That the said amount shall be payable in full when or before the Contractor receives payment, from the Government of the price payable to him for the said works under the terms and provisions of the said agreement PROVIDED THAT if any intermediate payments are made to the contractor on account of work done then on the occasion of each such payment the Government will be at liberty to make a recovery from the Contractors Bill for such payment by deducting there from in the value of the said materials (hen actually used in the construction and in respect of which recovery has not been made previously the value for this purpose being determined in respect of each description of material at (he rates at which the amount of the advances made under these presents were calculated.
- (7) at if the Contractor shall at any time make any default in the performance or observation in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Government shall immediately on the happening of such default be repayable by the Contractor to the Government together with interest thereon at twelve percent per annum

from the date or respective dates of such advance or advances to the date or repayment and with all costs, charges, damages and expenses incurred by the Government in or for the recovery thereof or the enforcement of this security or otherwise by reason of (he default of the Contractor and any moneys so becoming due and payable shall constitute a debt due from the Contractor to the Government and the Contractor hereby covenants and agrees with the Government to repay and the same respectively to it accordingly.

- (8) That the Contractor hereby charges all the said materials with the repayment to the Government of the said sum of Rupees) and any further sum or sums which may be advanced as aforesaid and a l l costs charges damages and expenses payable under these present PROVIDED ALWAYS and it is hereby agreed and declared that not, withstanding anything in the said agreement and without prejudice to the powers contained therein if and whether the covenant for payment and repayment hereinbefore contained shall become enforceable and the money owing shall not be paid to accordingly.

Once there with the Government may at any time thereafter adopt all or any of following courses as it may deem best ;-

- (a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay the same to the Government on demand.
- (b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable to the Government under these presents and pay over the surplus (if any) to the Contractor.
- (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.
- (9) That except as is expressly provided by the presents interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been hereinbefore expressly provided for the same shall be referred to the Superintending Engineer/Executive District Officer/Officer one grade higher to officer signed the agreement Circle whose.....decision shall be final and the provisions of the Arbitration Act 1940 for the time being in force so far as they are applicable shall apply to any such reference.

Singed, sealed and delivered by*
In the presence of

SEAL

1st witness
2nd witness

Signed, sealed and delivered by* In the presence of

SEAL

1st witness
2nd witness

Notes on the Conditions of Contract

The Conditions of Contract comprise two parts:

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

Over the years, a number of Contract of “model ”have evolved .The one General used in these Standard Bidding Documents was prepared by the International Federation of Consulting Engineers (Federation International des Ingenieurs-Conseils, or FIDIC), and is commonly known as the FIDIC Conditions of Contract. (The used version is the harmonized Edition March 2006).

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

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

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

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

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

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

To request such permission
please contact: FIDIC CASE
POSTALE, CH-1215 Switzerland;
Tel. +41 22 799 49 00;
Fax; +41 22
799 49 01
E-mail:
fidic@fidic.
org.

Conditions of Contract for CONSTRUCTION

FOR BUILDING AND ENGINEERING WORKS DESIGNED BY THE
EMPLOYER

Multilateral Development Bank Harmonised Edition
March 2006

General Conditions

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FEDERATION INTERNATIONALE DES INGENIEURS-CONSEILS INTERNATIONAL FEDERATION OF CONSULTING
ENGINEERS INTERNATIONALE VEREINIGUNG BERATENDER INGENIEURE FEDERACION INTERNACIONAL DE
INGENIEROS CONSULTORES

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General Conditions

General Provisions

1.1

Definitions:

In the Conditions of Contract ("these Conditions, Condition Parts A and B, and these General Conditions, the following words and expressions shall have the meanings stated. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

1.1.1

The Contract

1.1.1.1 "Contract" means the Contract Agreement Letter of Tender, these Conditions, the Specification, the Drawings, the Schedules, and the further documents (if any) which are listed in the Contract Agreement or in the Letter of Acceptance.

1.1.1.2 "Contract Agreement" means the contract- ag

Clause 1.6 [Contract Agreement].

1.1.1.3 "Letter of Acceptance" means the letter of for the Employer, of the Letter of Tender, including any annexed memoranda comprising agreements between and signed by both Parties. If there is no such letter of acceptance, the expression Contract Agreement and the date of issuing or receiving the Letter of Acceptance means the date of signing the Contract Agreement.

1.1.1.4 "Letter of Tender" entitled means letter of tender theory letter document of

bid, which was completed by the Contractor and includes the signed offer to the Employer for the Works.

1.1.1.5 "Specification" means the document entitle the Contract, and any additions and modifications to the specification in accordance

with the Contract. Such document specifies the Works.

1.1.1.6 "Drawings" means the drawings of the Works and any additional and modified drawings issued by (or on behalf of) the Employer in

accordance with the Contract.

1.1.1.7 "Schedules" means the document(s) entitled

Contractor and submitted with the Letter of Tender, as included in the Contract. Such document may include the Bill of Quantities, data, lists, and schedules of rates and/or prices.

1.1.1.8 "Tender" means the Letter of Tender and al

Contractor submitted with the Letter of Tender, as included in the Contract.

1.1.1.9 "Bill of Quantities", "Day work Schedule Currencies" mean the documents so named (if Schedules).

1.1.1.10 "Contract Data" means the pages compel contract data which constitute Part A of the Particular Conditions.

1.1.2

Parties and Persons

1.1.2.1 "Party" means the Employer or the Contractor

1.1.2.2 "Employer" means the person named as Employer and the legal successors in title to this person.

1.1.2.3 "Contractor" means the person(s) named in the Tender accepted by the Employer and the legal successors in title to this person(s).

1.1.2.4 "Engineer" means the person appointed as Engineer for the purposes of the Contract and named in the Contract Data, or other person appointed from time to time by the Employer and notified to the Contractor under Sub-Clause 3.4 [Replacement of the Engineer].

1.1.2.5 "Contractor's Representative" means the person appointed as Contractor in the Contract or appointed from time to time by the Contractor under Sub-Clause 4.3 [Contractor's Representative], who acts on behalf of the Contractor.

1.1.2.6 "Employer's Personnel" means the Engineer, Sub-Clause 3.2 [Delegation by the Engineer] and all other staff, labour and other employees of the Engineer and of the Employer; and any other personnel notified to the Contractor, by the Employer or the Engineer, as Employer's Personnel.

1.1.2.7 "Contractor's Personnel" means the Contractor's personnel whom the Contractor utilizes on Site, who may include the staff, labour and other employees of the Contractor and of each Subcontractor; and any other personnel assisting the Contractor in the execution of the Works.

1.1.2.8 "Subcontractor" means any person subcontractor, or any person appointed as a subcontractor, for a part of the Works; and the legal successors in title to each of these persons.

1.1.2.9 "DB" means the person or persons appointed as a member of the Dispute Board] or Sub-Clause 20.3 [Failure to Agree on the Composition of the Dispute Board].

1.1.2.10 "FIDIC" means the International Federation of Consulting Engineers.

1.1.2.11 "Bank" means financing institution the (if any) named in the Contract Data.

1.1.2.12 "Borrower" means the person (if any) named in the Contract Data.

1.1.3

Dates, Tests, Periods

and Completion 1.1.3.1 “Base Date” means the latest for 28 submission days prior and completion of the Tender.

1.1.3.2 “Commencement Date” means the Clause 8 date.1 not [Commencement of Works].

1.1.3.3 “Time for Completion” means the time of (as the case may be) under Sub-Clause 8.2 [Time for Completion], as stated in the Contract Data (with any extension under Sub-Clause 8.4 [Extension of Time for Completion]), calculated from the Commencement Date.

1.1.3.4 “Tests on Completion” means the tests which are specified means in the Contract or agreed by both Parties or instructed as a Variation, and which are carried out under Clause 9 [Tests on Completion] before the Works or a Section (as the case may be) are taken over by the Employer.

1.1.3.5 “Taking-Over Certificate” means a certificate [Employer’s Taking Over].

1.1.3.6 “Tests after Completion” means the tests under the Contract and which are carried out in accordance with the Specification after the Works or a Section (as the case may be) are taken over by the Employer.

1.1.3.7 “Defects Notification Period” means the period for the Works or a Section (as the case may be) under Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects], which extends over twelve months except if otherwise stated in the Contract Data (with any extension under Sub-Clause 11.3 [Extension of Defects Notification Period]), calculated from the date on which the Works or Section is completed as certified under Sub-Clause 10.1 [Taking Over of the Works and Sections].

1.1.3.8 “Performance Certificate” means the certificate issued under Sub-Clause 11.9 [Performance Certificate].

1.1.3.9 “day” means a calendar day and “year” means a year.

1.1.4

Money and Payments

1.1.4.1 “Accepted Contract Amount” means the amount of the Contract Price accepted for the execution and completion of the Works and the remedying of any defects.

1.1.4.2 “Contract Price” means the Contract Price, and includes adjustments in accordance with the Contract.

1.1.4.3 “Cost” means all expenditure reasonably incurred by the Contractor, whether on or off the Site, including overhead and similar charges, but does not include profit.

1.1.4.4 “Final Payment Certificate” means the certificate issued under the Sub-Clause 14.13 [Issue of Final Payment Certificate].

1.1.4.5 “Final Statement” means the Statement of Final Account [Application for

Final Payment Certificate].

1.1.4.6 “Foreign Currency” means the currency of the Contract in which the Price is payable, but not the Local Currency.

1.1.4.7 “Interim Payment Certificate” means a certificate issued under Clause 14 [Contract Price and Payment], other than the Final Payment Certificate.

1.1.4.8 “Local Currency” means the currency of the Country.

1.1.4.9 “Payment Certificate” means a certificate issued under Clause 14 [Contract Price and Payment].

1.1.4.10 “Provisional Sum” means a sum (if any) included in the Contract Price as a provisional sum, for the execution of any part of the Works or for the supply of Plant, Materials or services under Sub-Clause 13.5 [Provisional Sums].

1.1.4.11 “Retention Money” means the amount of money which the Employer retains under Sub-Clause 14.3 [Application for Interim Payment Certificates] and pays under Sub-Clause 14.9 [Payment of Retention Money].

1.1.4.12 “Statement” means a statement submitted by the Contractor under Clause 14 [Contract Price and Payment], for a payment certificate.

1.1.5

1.1.5.1 “Contractor’s Equipment” means all other things required for the execution and completion of the Works and the remedying of any defects. However, it excludes Contractor’s Temporary Works, Employer’s Equipment (if other things intended to form or forming part of the Permanent Works).

1.1.5.2 “Goods” means Contractor’s Equipment, Materials, or any of them as appropriate.

1.1.5.3 “Materials” means things of all kinds forming part of the Permanent Works, including the supply-only materials (if any) to be supplied by the Contractor under the Contract.

1.1.5.4 “Permanent Works” means the Works to be executed by the Contractor under the Contract.

1.1.5.5 “Plant” means the apparatus, machinery forming part of the Permanent Works, including vehicles purchased for the use of the Contractor and relating to the construction or operation of the Works.

1.1.5.6 “Section” means a part of the Works specified in the Contract Section (if any).

1.1.5.7 “Temporary Works” means all temporary Contractor’s Equipment required on Site for the execution of the Permanent Works and the remedying of any defects.

1.1.5.8 "Works" mean the Permanent Works and t them as appropriate.

1.1.6

Other Definitions 1.1.6.1 "Contractor's Documents" me
computer programs
and other software, drawings, manuals, models and other documents of a
technical nature (if any) supplied by the Contractor under the Contract.

1.1.6.2 "Country" meansryinwhichtheSitecount(ormostof it) is
located, where the Permanent Works are to be executed.

1.1.6.3 "Employer's Equipment" means the appar any) made available by
the Employer for the use of the Contractor in the execution of the Works,
as stated in the Specification; but does not include Plant which has not
been taken over by the Employer.

1.1.6.4 "Force Majeure" is defined in Clause 1

1.1.6.5 "Laws" means all nationalstatutes,ordinances(or andstate)other l laws,
and regulations and by-laws of any legally constituted public authority.

1.1.6.6 "Performance Security" means the secur
Sub-Clause 4.2 [Performance Security].

1.1.6.7 "Site" hemeansplaceswheretthe Permanent Works are to be executed,
including storage and working areas, and to which Plant and
Materials are to be delivered, and any other places as may be
specified in the Contract as forming part of the Site..

1.1.6.8 "Unforeseeable" means not reasonably foresee contractor by the Base
Date.

1.1.6.9 "Variation" means any change to the Wo approved as a variation under
Clause 13 [Variations and Adjustments].

1.2

Interpretation

In the Contract, except where the context requires otherwise:

- (a) words indicating one gender include all genders;
- (b) words indicating the singular also include the plural and words
indicating the plural also include the singular;
- (c) provisions including the word "agree", "agre agreement to be record in
writing;
- (d) "written""in worting"-written, meanstype-written, printedhandor
electronically made, and resulting in a permanent record; and
- (e) the word "tender" is synonymous with "bi the words "tender documents" with
"bidding

The marginal words and other headings shall not be taken into
consideration in the interpretation of these Conditions.

In these Conditions, provisions including the this

profit to be one-twentieth (5%) of this Cost unless otherwise indicated in the Contract Data.

1.3

Communications

Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices, requests and discharges, these communications shall be:

- (a) in writing and delivered by hand (against receipt), sent by mail or courier, or transmitted using any of the agreed systems of electronic transmission as stated in the Contract Data; and
 - (b) delivered, sent or transmitted to the as stated in the Contract Data.
- However:

- (i) if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and
- (ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the address from which the request was issued.

Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to a Party, by the other Party or the Engineer, a copy shall be sent to the Engineer or the other Party, as the case may be

1.4

Law and Language

The Contract shall be governed by the law of the country or other jurisdiction stated in the Contract Data.

The ruling language of the Contract shall be that stated in the Contract Data.

The language for communications shall be that stated in the Contract Data. If no language is stated there, the language for communications shall be the ruling language of the Contract.

1.5

Priority of Documents

The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:

- (a) the Contract Agreement (if any),
- (b) the Letter of Acceptance,
- (c) the Tender,
- (d) the Particular Conditions - Part A,
- (e) the Particular Conditions - Part B,
- (f) these General Conditions,
- (g) the Specification,
- (h) the Drawings, and
- (i) the Schedules and any other documents forming part of the Contract.

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

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PART II - SPECIAL /PARTICULAR CONDITIONS OF CONTRACT

1.1 Definitions

1.1.1.4 “Form of Bid” is synonymous with “Letter of Tender”.

1.1.1.5 “Bid” is synonymous with “Tender”.

1.1.1.10 “Bidding” is synonymous with “contract”.

The following paragraph is added:

1.1.1.11 “Programme” means the programme to Sub-Clause 8.3 and any approved revisions thereto.

1.12. Employer”2“ is synonymous with “Procuring

1.1.2.9 synonymous “DB” with this “Committee”.

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

1.1.3.7 “Defects notification synonymous with “Defects Period” liability Period” is.

1.15 Inspections and Audit by the Bank

Deleted

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

3.1 Engineer’s Duties and Authority.

The following paragraph is added after duties:

Procuring agency shall ensure that the/Staff is Engineer “professional engineer as defined in the Pakistan Engineering Council Act 1975 (V of 1976)

4.3 Contractor’s Representative

The following text is to be added after last line:

The contractor’s authorized representative shall register themselves with the Pakistan Engineering Council.

6.10 Records of Contractor’s Personnel

The following paragraph is added:

The Contractor shall, upon request by the Engineer at any time in relation to any item

of hired Contractor's Equipment, forthwith of the Owner of the equipment and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements set forth above.

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

7.9 Use of Pakistani Materials and Services

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

8.1 Commencement of Works

The last Para is deleted and substituted with the following:

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

8.11 Prolonged Suspension
Replace 84 days by 120 days.

8.3 Programme

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

The programme shall be submitted in the either form of:

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

13.1 Right to vary

In the last line of Para, after is added the. word "Va

13.3 Variation procedure

In the tenth line,practicable"afterthewordsfollowing"asso
"and within a period not exceeding one-eighth of the completion

13.8 Adjustment for changes in cost

*This clause will be applicable for Foreign funded Project/ Schemes or ICB Contracts (locally & foreign funded) only.
The following provision is added for Local funded Project/ Schemes/National Competitive Bidding Contracts:*

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

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

- 14.1 The Contract
Price Sub-Para
(d) is deleted.

14.2 Advance Payment

The Text is deleted and replaced with following:

Advance Payment/Mobilization Advance shall be made available to the Contractor by the procuring agency on following conditions:

Mobilization Advance/Advance Payment

- (i) Mobilization advance up to 10 % of the Contract Price may be paid by the procuring agency to the Contractor on the works costing Rs2.5 million or above on following conditions:
- a. on submission by the Contractor of a mobilization advance guarantee for the full amount of the advance in the specified form, from a Scheduled Bank in Pakistan, acceptable to the procuring agency;
 - b. contractor shall pay interest on the mobilization advance at the rate of 10% per annum on the advance; and
- (ii) This Advance including the interest shall be recovered in 5 equal installments from the 5 R.A bills and in case the number of bills is less than 5 then 1/5 of the advance inclusive of the interest thereon shall be recovered from each bill and the balance together with interest be recovered from the final bill. It may be insured that there is sufficient amount in the final bill to enable recovery of the Mobilization Advance.

14.5 Plants and Materials intended for Works

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

- (I) The Contractor shall be entitled to receive from the procuring agency Secured Advance against an INDENTURE BOND in Public Works Account Form No.31 (Fin. R. Form No. 2) acceptable to the procuring agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the site but not yet incorporated in the Permanent Works provided that:
- (i) The materials are in accordance with the specifications for the permanent works;
 - (ii) Such materials have been delivered to the site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer/Assistant Engineer but at the risk and cost of the Contractor;
 - (iii) The Contractors records of therequirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;
 - (iv) The Contractor shall submit with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of

- ownership and payment therefore;
- (v) Ownership of such materials shall be deemed to vest in the procuring agency and these materials shall not be removed from the site or otherwise disposed of without written permission of the procuring agency;
 - (vi) The sum payable for such materials on site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of stands other materials;
 - (vii) Secured Advance shall not be allowed unless and until the previous advance, if any, is fully recovered;
 - (viii) Detailed account of advances must be kept in part II of running account bill or a separate statement; and
 - (ix) Secured Advance may be permitted only against materials/quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and in no case for full quantities of materials for the entire work/contract.

(II) Recovery of Secured Advance:

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

14.8 Delayed Payment

Second Para is replaced with following text:

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

15.2 Termination by Employer

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

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

15.6 Corrupt and fraudulent Practices.

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

Successful Contractor has to provide Integrity Pact (for contracts worth

Rs.10.0 million and above).

If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as

Appendix-L to his Bid, then the procuring agency shall be entitled to:

- (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, fine or any of his Subcontractors, agents or servants;
- (b) terminate the Contract; and
- (c) recover from the Contractor any loss or damage to the procuring agency as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents or servants.

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

16.4 Payment on Termination

Sub-paragraph (c) is deleted.

17.3 Employer's/ Procuring Agency's Risks

Sub-Clause 17.3 (h) is deleted.

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

18.1 General Requirements for Insurance

The contractor shall be obliged to place all insurances relating to the contract (including, but not limited to, the insurances referred to in Clauses 18.1,18.2,18.3,18.4) with Insurance Company having at least AA rating from PACRA/JCR in favour of the Employer//Procuring Agency valid for a period 28 days after beyond the Bid Validity date.

Costs of such insurances shall be borne by the contractor.

19.6 Optional Termination, Payment and release by the Employer

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

20.6 Arbitration

Text will be replaced as under;

Any dispute in respect of which:

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

The place of arbitration shall be

Procuring Agency can retain this clause without changes, in case of contracts under Project,

Bank and donor's the programme place of except arbitration Province.

Annex PROCEDURAL RULES

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

PART II –SPECIAL/PARTICULAR CONDITIONS OF CONTRACT

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SPECIFICATIONS

DRAWINGS



KARACHI DEVELOPMENT AUTHORITY ENGINEERING DEPARTMENT

VOLUME-II: BILL OF QUANTITIES (SINGLE STAGE TWO ENVELOPE PROCEDURE)

(alongwith Eligibility & Minimum Qualification Criteria & Method of Procurement)

**NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS
AT KARIMABAD DISTT: CENTRAL (ADP # 2371 / 2022-23)**

Estimated Cost : -	Rs. 1249.959 (Million)
Bid Security : -	Rs. 5 %
Tender Cost : -	Rs. 5,000 /-

Issue to M/s. _____

P.O. No. _____

Dated: _____

Amount _____

Bank: _____

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
PART - A (ROAD WORKS) ITEMS BASED ON SCHEDULE RATES					
1	Dismantling of existing asphalt concrete road including base, sub-base and disposal of dismantling material to designated places. Sch/Highways/F Item:11, Pg:15	128,250.37	773.86	% Cft	992,478.29
2	Earth Excavation ash, sand soft soil or silt clearance undresses lead upto 50ft. Vol-III, Part-II, Chap-1, Pg-1, Sr. 2)	128,250.37	1,663.75	% CFT	2,133,765.48
3	Clearing and grubbing the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places. V-III, Part-6, Item no. 1 page 01	257,043.49	97.07	% SFT	249,512.11
4	Cartage of 100 CFT / 5 tons of all material likes one aggregate, spawl, coal, lime, surkhi etc. B.G. Rait fastenings points & crossing Bridges Girders, Pipes, Sheets Raits, M.S. Bars etc. or 1000 Nos brinks, 10' x 5' x 3' or 1000 manuds of fuel wood by trucks or any other means owned by the contractors (Lead upto 10 Miles etc). CSR-2012. (Sch/Vol-III/Part IV/	256,500.73	1,065.00	% Cft	2,731,732.82
5	Compaction of Natural Ground upto a depth of 20cm (8" inch) below the natural ground level compacted upto 90% density modified AASHTO. V-III, Part-6, Item no. 2 page 1	257,043.49	177.56	% SFT	456,406.42
6	Preparing sub grade including earth excavation or filling to an average depth of 9" dressing to camber and consolidation with power Roller V-III, Part-6, Item no. 9 page 02	257,043.49	526.28	% SFT	1,352,768.47
7	Preparing sub- base course by supplying and spread-ing stone metal 1-1/2"-2" guage of approved quality from approved quarry in required thickness to proper camber and grade including hand packing filling words with 20 crt: of pit / canal and having plasticity index not more than 6% of suitable quality watering and compacting to achieve 984 100% density as per modified AASHO specifications (Rate includes all cost of materials T&P and carriage upto 3 chains). V-III, Part-6, Item no. 11 page 03	253,125.72	4,381.76	% CFT	11,091,361.76

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
8	Providing and laying Aggregate base course in proper grade and chamber having CBR 80% as per AASHTO standard specifications i/c spreading and compacting by approved mechanical means (Motor grader, Vibratory roller and smooth wheel roller etc) watering to maintain the moisture content the compaction of each layer shall 100 percent to the max dry density (rate i/e all cost of material T&P and carriage upto 3 chains) V-III, Part-6, Item no. 13(B) page 05	194,063.06	5,542.24	% CFT	10,755,440.30
9	Applying priming coat or tack with approved binder at the required rate including cleaning the road surface thoroughly, heating to the required temperature pressure as directed etc,complete. and with etc spraying the binder V-III, Part-6, Item no. 31 page 12	514,086.98	64.96	% SFT	333,950.90
10	<u>2" (50mm) Thick Asphalt Concrete Wearing Course</u> Plant Mix Laying to proper line and grade plant mixed Asphalt concrete paver finished (Hydraulic / Electronic control) Prepared to specified formula according to job mix formula approved by engineer incharge including rolling and finishing to properline, grade level and camber etc (Machinery with POLs cost of material carriage). V-III, Part-6, Item no. 24(B) page 10	257,043.49	15,051.82	% SFT	38,689,723.14
11	<u>3" (75mm) Asphaltic Base Course</u> Plant Mix Providing and laying plant mixed Asphalt Concrete Binder course compacted thickness 3 inches (75mm thick) as per approved job mix formula using crush aggregate from approved sources. Using asphalt of grade 60/70 during laying temperature not less than 140C compacted by steel wheel & PTR roller. the procedure of laying binder course material and methodology shall fully comply with AASHTO and as directed by Engineer Incharge. Minimun bitumen content should be 3.5% binder course shall be spreading using paver machine. Rolling & Finishing to design proper grade line level and camber etc. (Machinery with POLs cost of material carriage) V-III, Part-6, Item no. 23(a) page 09	257,043.49	10,769.91	% SFT	27,683,352.32
TOTAL COST OF PART - A (ROAD WORK) ITEMS BASED ON SCHEDULE RATES					96,470,492.00

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
PART - B (ANCILLARY WORK) ITEMS BASED ON SCHEDULE RATES					
1	Pavement marking in Reflective Thermoplastic Paint for lines of 6" width V-III, Part6, Item no. 39(13) page 15	19,305.40	41.24	RFT	796,154.86
2	CatEyes/Road Studs Supplying and fixing of reflectorize Road Stud Double Face, Flush surface type. V-III, Part-6,Item no. 39 (12) page 15	520.00	596.23	NO.	310,039.60
3	Providing & Fixig each Informatory Sign Rectangular shape 4x3" comprizing 2 Nos: 3" Dia G.I pipe Post i/c Painting, writing as directed each. V-III, Part-6, Item no. 39 (18 -c-II) page 17	25.00	16,956.00	NO.	423,900.00
4	Kerbstone Providing & fixing Precast Edge Block 3750 PSI industrial Made Size 6 inches thick x 12 inches long x 12 inches high including the cost of Cartage, excavation, form Work for haunching, 1450 PSI lean concrete, 2250 PSI concrete for haunching, 1:4 cement sand mortor .V-III, Part-6, Item no. 14 page 16	8,858.70	297.01	RFT	2,631,122.49
5	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 60 (mm) of city / quddra / cobble shape with pigmented, having strength b/w 5000 psi to 8500 psi I/c filling the joints with hill sand and laying in specified manner/ pattern and design etc: complete. Chp no. 08, Item no. 72, Pg 49	17,707.19	223.97	SFT	3,965,880.24
TOTAL COST OF PART - B (ANCILLARY WORK) ITEMS BASED ON SCHEDULE RATES					8,127,097.00

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
PART - C (BARREL STRUCTURE) ITEM BASED ON SCHEDULE RATES					
107f	Structural Excavation in all Kind of Soil / Rock Material	750,724.53	13.18	P.Cft	9,894,549.31
107d	Granular Backfill	173,197.67	58.23	P.Cft	10,085,300.34
107e	Common Backfill	27,073.98	8.91	P.Cft	241,229.14
401a1ii	Concrete Class A1	1,807.10	434.72	P.Cft	785,584.10
401a3ii	Concrete Class A3	93,898.29	468.37	P.Cft	43,979,142.39
401di	Concrete Class D1	70,346.75	575.80	P.Cft	40,505,659.90
401f	Lean Concrete (Foundation)	26,999.96	229.03	P.Cft	6,183,801.82
8	Fabricating of Deformed steel reinforcement AASHTO M-170 Grade 60 for cement concrete including cutting bending laying in position making joints and fastening including cost of binding wire (also includes removal of rust from bars)	10,245.268	5,001.70	P.Cwt	51,243,758.14
405b	Launching of Girder	2,800.00	1,535.24	Ton	4,298,672.00
406e	Elastomeric Bearing Pads	51,595,456.00	0.06	P.Cft	3,095,727.36
12	Cartage of 100 CFT / 5 tons of all material likes one aggregate, spawl, coal, lime, surkhi etc. B.G. Rait fastenings points & crossing Bridges Girders, Pipes, Sheets Raits, M.S. Bars etc. or 1000 Nos brinks, 10' x 5' x 3' or 1000 manuds of fuel wood by trucks or any other means owned by the contractors (Lead upto 10 Miles etc). CSR-2012. (Sch/Vol-III/Part IV/	750,724.53	1,065.00	% Cft	7,995,216.25
SP-222	Concrete Painting (Jotun or Equivalent)	46,894.23	45.54	P.Sft	2,135,563.33
SP-324	Stone Soling 300mm Thick	23,397.61	63.70	P.Cft	1,490,427.56
TOTAL COST OF PART - C (BARREL STRUCTURE) ITEMS BASED ON SCHEDULE RATES					181,934,632.00

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
PART - D (RETAINING WALL) ITEM BASED ON SCHEDULE RATES					
107f	Structural Excavation in all Kind of Soil / Rock Material	252,044.45	13.18	P.Cft	3,321,945.88
107d	Granular Backfill	252,044.45	58.23	P.Cft	14,676,548.47
401a3ii	Concrete Class A3	105,007.04	468.37	P.Cft	49,182,146.46
401f	Lean Concrete (Foundation)	4,582.67	229.03	P.Cft	1,049,569.16
6	Fabricating of Deformed steel reinforcement AASHTO M-170 Grade 60 for cement concrete including cutting bending laying in position making joints and fastening including cost of binding wire (also includes removal of rust from bars)	5,625.38	5,001.70	P.Cwt	28,136,448.36
406dii	PVC Water Stopper 8" size	1,299.28	595.57	P.Rft	773,809.81
SP-222	Concrete Painting (Jotun or Equivalent)	4,592.37	41.82	P.Sft	192,052.83
SP-218	Providing & Fixing of Re-injectable Hose	328.10	619.52	P.Rft	203,264.51
SP-219	Elastomeric Water Proofing Coating	20,990.61	97.16	P.Sft	2,039,447.47
SP-220	Providing & Laying Membrane Protection Board	2,764.24	102.89	P.Sft	284,413.07
SP-212	Providing and Fixing 3mm Thick Membrane (Plastogrip RL-300)	3,871.18	102.25	P.Sft	395,828.05
SP-214	Providing Cutting and Fixing of 32mm S.S Dowel at required Level	50.00	1,022.00	Each	51,100.00
SP-215	Providing and Fixing of Water Proof Tie Rods in Walls	250.00	1,300.00	Each	325,000.00
SP-216	Joint Sealent 20mm x 20mm	82.03	1,094.46	P.Rft	89,773.08
SP-217	Joint Filler	225.42	242.63	P.Sft	54,694.14
TOTAL COST OF PART - D (RETAINING WALL) ITEMS BASED ON SCHEDULE RATES					100,776,041.00

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
PART - E (DRAINAGE FOR UNDERPASS) ITEMS BASED ON SCHEDULE RATES					
1	Excavation for Pipe line / Drain Work in Trenches, and pits in Soft rock by Hammering and chieslling where blasting is not practicable or prohibited i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as per directed by engineer incharge, Providing frence guards, light flags and temporary crossing for non-vehicular traffic where ever requaired lift upto 5ft(1.52m) and lead upto one chain (30.5m) (Sch/Vol-IV/Part-VI/Chp-3/Pg-62,Itm-06)	36,567.08	10,770.00	%oCft	393,827.44
2	Excavation for pipe line in trenches, and pits in hard rock by hammering and chieslling i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer Incharge . Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic where ever required lift upto 5 ft. (1.52m) and lead upto one chain (30.5m). (Sch/Vol-IV/Part-VI/Chp-3/Pg-63,Itm-10)	36,567.08	24,150.00	%oCft	883,094.95
3	Cartage of 100 CFT / 5 tons of all material likes one aggregate, spawl, coal, lime, surkhi etc. B.G. Rait fastenings points & crossing Bridges Girders, Pipes, Sheets Raits, M.S. Bars etc. or 1000 Nos brinks, 10' x 5' x 3' or 1000 manuds of fuel wood by trucks or any other means owned by the contractors (Lead upto 10 Miles etc). CSR-2012. (Sch/Vol-III/Part IV/	73,134.16	1,065.00	% Cft	778,878.77
4	Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. Lean Concrete (1:4:8) V-III, Part-3, Chp no. 04, Item no. 5 (i), Pg 16	11,454.53	11,288.75	% Cft	1,293,073.29

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
5	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle.) (a) R.C work in roof slab, beams columns rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects. (I) Ratio (1 : 2: 4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. (Vol-III, Part-II, Chap-4, Pg-17, Sr. 6-a-i)	59,761.00	337.00	P.Cft	20,139,456.49
6	Fabricating of Deformed steel reinforcement AASHTO M-170 Grade 60 for cement concrete including cutting bending laying in position making joints and fastening including cost of binding wire (also includes removal of rust from bars)	3,201.48	5,001.70	P.Cwt	16,012,852.83
7	Preparing sub- base course by supplying and spread-ing stone metal 1-1/2"-2" guage of approved quality from approved quarry in required thickness to proper camber and grade including hand packing filling words with 20 crt: of pit / canal and having plasticity index not more than 6% of suitable quality watering and compacting to achieve 984 100% density as per modified AASHO specifiications (Rate includes all cost of materials T&P and carriage upto 3 chains). V-III, Part-6, Item no. 11 page 03	110,246.84	4,381.76	% Cft	4,830,751.84
406dii	PVC Water Stop 200mm Size	209.98	2,592.49	P.Rft	544,381.42
502a	Granular Material in Bed to Pipe Culvert	1,888.40	63.32	P.Cft	119,573.23
502b	Concrete Class B For Encasement of Pipe	118.12	3,313.48	P.Rft	391,375.00
TOTAL COST OF PART - E (DRAINAGE FOR UNDERPASS) ITEMS BASED ON SCHEDULE RATES					45,387,265.00

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
PART - E (DRAINAGE FOR UNDERPASS) ITEMS BASED ON NON-SCHEDULE RATES					
11	BITUMEN COATING OF DRAIN Providing and applying industrial bitumen paint/coating (Coverage 7 Kg / 10 Sqm) mixed with water component 2 coats on all RCC / CC structural member surfaces contact with earth up to plinth level etc., complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	3,449.66		Sq.m	
12	Providing and laying Stone soling i/c laying, compacting all lead and lift etc complete	10,355.42		P.Cft	
13	STEEL LADDER Providing and fixing epoxy coated M.S ladder rungs (20 mm Dia) comprising of horizontal and vertical bars fixed including cutting, jointing and necessary hardware's as per drawing in under ground water tank/Sump, complete in all respect and as approval of the Engineer/Incharge.	30.00		Nos.	
14	STEEL GRATING WITH FRAME Manufacturing, supplying & fixing steel grating having 10mm flat strips with frame of size as shown in drawings i/c fabricating, epoxy coating, complete in all respect as per drawings, specifications and as directed by Engineer. Horizontal Steel Grating	18.00		Nos.	
15	DEWATERING (PROVISIONAL) Providing, installing, designing, operating and maintaining a Dewatering system (in Storm drains and where required) including the cost of mobilization & demobilization of equipment /machinery/Pumps (10 HP), Fuel, labour and materials for this work and stand by arrangements for keeping the water table to specified limit etc. complete in all respect as per drawings, specifications and as directed by Engineer.	60.00		Days	
16	HDPE PIPES & FITTINGS Providing, Laying, Jointing, Testing and Disinfection of HDPE pipes confirming to ISO- 4427 DIN 8074/75 & PS3580:1984, in trenches to correct alignment and grade with all necessary fittings required to complete the job including bends, flange adopter, etc, complete in all respect as per drawings, specifications and as directed by Engineer.				

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

<u>S. No</u>	<u>ITEMS</u>	<u>QUANTITIES</u>	<u>RATES</u>	<u>UNITS</u>	<u>AMOUNT</u>
16.1	630mm Dia (O.D) PN-8.0, SDR-21	65.62		P.Rft	
16.2	800mm Dia (O.D) PN-12.5, SDR-13.6	59.06		P.Rft	
17	MS PIPES & FITTINGS Manufacturing, Supplying, Fixing, Testing, Disinfection & commissioning of Black Steel M.S Pipe Made out of M.S Sheet Conforming to API 5 L Grade X - 42 Spirally Welded with ERW & Externaly & Internally epoxy coating of 150 microns with all fittings & arrangements including flanges, bends, tees, yees, anchorage clamps, flexible coupling, expander, rubber gaskets, etc, complete in all respect as per the details shown in drawings & specifications and as directed by the Engineer.				
17.1	350mm Dia (Header Pipe)	26.25		P.Rft	
17.2	200mm Dia (Pump Discharge Pipe)	118.12		P.Rft	
18	PUMPS & MOTORS Supply, installation, testing & comissioning of Submersible pumps with motor of approved quality including cost of motor control unit (Panel) with complete set of wiring for the below mentioned configuration, complete in all respect as per drawings, specifications and as directed by Engineer. Q = 1150 UK Gpm, H = 15m	3.00		Nos.	
19	GATE VALVE (SLUICE VALVE) Providing & Fixing of Flange End Cast Iron Sluice Valve of Design Standard BS 5150/API 600 compliance with EN 1171/BS 5163 having Nominal Pressure PN-16 - Class 125 S.S. Cr 13% Seat & Stem with Nuts, Bolts, Gas kit/Rubber Packing including Labour complete in all respect as per satisfaction of Engineer/Incharge.				
19.1	200mm Dia	3.00		Nos.	

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
20	NON RETURN VALVE (REFLEX VALVE) Providing & Fixing Flange End Cast Iron Reflex Valve (Non-Return Valve) - Swing Type of Design Standard EN 12334/API 6D compliance with BS 4090/BS 5153 having Nominal Pressure PN-16 - Class 125 S.S. Cr 13% Seat & Stem with Nuts, Bolts, Gas kit/Rubber Packing including Labour complete in all respect as per satisfaction of Engineer/Incharge. 200mm Dia	3.00		Nos.	
21	BLOCK MASONRY AT MCC ROOM Providing and laying solid block masonry (6"x8"x12") in cement sand mortar (1:4), 6" thick wall , regular in shape and size with sharp and square corners and parallel faces, free from flaws and cracks, curing, scaffolding, racking out the joints, courses shall be kept in time plumb including all leads & lifts etc, complete in all respect, as per specifications & relevant drawings and to the entire satisfaction of the Engineer.	271.69		P.Cft	
22	IRON WORK FOR MCC ROOM Making and fixing steel grated door and windows with 1/16" thick sheeting including angle iron frame 2" x 2" x 3/8" and 3/4" square bars 4" center to center with locking arrangement i/c cost of enamel paint after sand papering, etc complete in all respect as per standard & specifications and as directed by Engineer/Incharge.				
22.1	MCC Room Gate Double Leaf (0.9m x 2.15m)	1.00		Nos.	
22.2	MCC Room Window (0.9m x 0.9m)	2.00		Nos.	
23	PAINT WORK FOR MCC ROOM Providing and applying paint on all internal & external surface with Enamel Paint of approved shade three coats over and including one coat of primer over plastered surface at any height including preparation of surface, filling depression with putty, rubbing, sand papering and cleaning, etc complete in all respect as per standard & specifications and as directed by Engineer/Incharge.	1,599.42		P.Sft	

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

<u>S. No</u>	<u>ITEMS</u>	<u>QUANTITIES</u>	<u>RATES</u>	<u>UNITS</u>	<u>AMOUNT</u>
24	Cement Plaster on RCC, Block masonry & Brick Masonry works with 3/4" thickness having ratio 1:4, etc, complete in all respect as per standard & specifications and as directed by Engineer/Incharge.	799.71		P.Sft	
25	C.I cover (Hinged) with frame size (750mm x 750mm) heavy duty having weight 65kg, epoxy coated, etc complete in all respect as per drawing & specifications and all work to the entire satisfaction of the Engineer.	3.00		Nos.	
26	AIR VENT PIPE Providing and fixing 150mm dia M.S goose neck/ vent pipe including all necessary arrangement and pipe fixing, painted with 3 coats of approved enamel paint over a coat of shop primer etc, complete in all respect as per specifications & relevant drawings and all works to the entire satisfaction of the Engineer.	2.00		Nos.	
TOTAL COST OF PART - E (DRAINAGE FOR UNDERPASS) ITEMS BASED ON NON-SCHEDULE RATES					

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
PART - F (SEWERAGE WORK) ITEMS BASED ON SCHEDULE RATES					
1	Excavation for Pipe line / Drain Work in Trenches, and pits in Soft rock by Hammering and chieslling where blasting is not practicable or prohibited i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as per directed by engineer incharge, Providing frence guards, light flags and temporary crossing for non-vehicular traffic where ever required lift upto 5ft(1.52m) and lead upto one chain (30.5m) (Sch/Vol-IV/Part-VI/Chp-3/Pg-62, ltm-06)	47,491.03	10,770.00	%0Cft	511,478.41
2	Excavation for Pipe line / Drain Work in Trenches, and pits in Soft rock by Hammering and chieslling where blasting is not practicable or prohibited i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as per directed by engineer incharge, Providing frence guards, light flags and temporary crossing for non-vehicular traffic where ever required lift upto 5ft(1.52m) and lead upto one chain (30.5m) (Sch/Vol-IV/Part-VI/Chp-3/Pg-63, ltm-10)	47,491.03	24,150.00	%0Cft	1,146,908.42
3	Cartage of 100 CFT / 5 tons of all material likes one aggregate, spawl, coal, lime, surkhi etc. B.G. Rait fastenings points & crossing Bridges Girders, Pipes, Sheets Raits, M.S. Bars etc. or 1000 Nos brinks, 10' x 5' x 3' or 1000 manuds of fuel wood by trucks or any other means owned by the contractors (Lead upto 10 Miles etc). CSR-2012. (Sch/Vol-III/Part IV/	94,982.06	1,065.00	% Cft	1,011,558.98
4	P/L Granular sub-base course material over prepared sub grade in conformity with liner grader thickness and typer cross section as shown in drawing for new pavements at grade wideining exisiting pavement using well graded granular crushed stone with sand and silt having a smooth gradation curve with in the limit for grading C or D as per AASHTO T-180 method D using approved minerals means of i/c watering with all land and lift complete as per specification as directed by the Engineer Incharge. (Vol-III, (Highways), Chap-2, Pg-4, Sr.11-d)	31,497.48	3,341.71	% Cft	1,052,554.52

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
5	Full hire charges of the pumping set per day inclusive of wage of driver and assistant fuel or electric energy plate form required for placing pump etc at lower depth with suction and delivery pipe for pumping out water found at various depth from trenches i/c the cost of erection and dismantling after completion of the job. Higher charge of pumping set of into 10 HP (but not less than 5 HP) pumping out water from 10' deep trench (Sch/Vol-IV/Part-VI-Pg-77,itm- 23(iv))	60.00	1,500.00	P.Day	90,000.00
6	P/L RCC Pipe of ASTM C-76-62 TIC 7670, class II wall 8 and fixing in trench i/c cutting fitting and jointing with rubber ring i/c testing with water to specified pressure. (Vol-IV, Part-VI (Pipe), Ch-II, Pg-16, Sr.1)				
a)	24" Dia	656.20	1,160.00	P.Rft	761,192.00
b)	18" Dia	656.20	959.00	P.Rft	629,295.80
c)	15" Dia	328.10	661.00	P.Rft	216,874.10
d)	12" Dia	328.10	590.75	P.Rft	193,825.08
7	Constructing manhole for the required dia of circular sewer and 7'-9" depth with walls of B.B in cement mortar 1:3 cement plastered 1:3, 1/2" thick, inside of walls and 1" (25 mm) thick over benching and channel i/c fixing C.I manhole cover with frame of clear opening 2' x 2' (610x610 mm) of 4.5 cwt. embaded in plain C.C 1:2:4 and two way rainforced 6" thickness i/c fixing 1" (25 mm) dia M.S steps 6" (150 mm) wide projecting 4" (102 mm) from the face of wall at 12" (305 mm) C/C duly painted etc, complete as per standard specification and drawing. (Vol-IV, Part-VI, Ch-II, Pg-45, Sr.2)				
a)	24" dia	13.00	67,874.00	Each	882,362.00
b)	18" to 21"	13.00	49,918.00	Each	648,934.00
c)	15" dia	7.00	47,437.00	Each	332,059.00
d)	12" dia	7.00	45,049.00	Each	315,343.00

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
8	Cleaning inside sewerage lines completely restoring original silt free space/diameter of pipe lines by labour and equipment (Mechanically/electrically driven). Including accessories like pulley's Steel rope, bucket and draggers sizing from 6" to 18" dia. Their "to and fro" pulling action (No of passes shall be as many as required) would be taken in two phases (First phase entire length from down stream to up stream) bringing down peak hours sewerage to flow inside pipe line (as free flow) and in second phase from up stream to down stream of entire length ensuring no silt is observed in buckets (6" dia to 18" dia) except only sewage water and finally passing a steel ball of dia 12" lesser than the diameter of pipe but not exceeding 48" dia ball even for larger dia pipe to ensure perfect cleaning. The job includes all the hire/cost of equipment and accessories of above winching machine/devices along with engines with winching drum set having, steel rope pulley mounted over it, steel bucket fro 6" to 18" dia hooks and other protection likes Safety barriers, traffic signs, traffic cones ensuring no damage to pipe along with ensuring safety to labour and other public property/lives and removal of silts/solid during desilting and clearance of site etc. complete as per full satisfaction of site Engineer.	1,640.50	354.20	P.Rft	581,065.10
9	Manufacturing and supply RCC manhole cover cast in 1:2:4 concrete ratio 3 inch deep at center reinforced with 3/8" dia tor steel bars at 4" c.c welded to 1/8" thick 2.5 inch deep M.S plate i/c curing stacking and transportation within 10 miles. (Sch/Vol-III/Part-VB-Chp:17 Pg-31,itm- 1(a,b,c)				
a)	21" Dia	5.00	913.63	Each	4,568.15
b)	24" Dia	5.00	1,051.25	Each	5,256.25
c)	30" Dia	2.00	1,830.94	Each	3,661.88
TOTAL COST OF PART - F (SEWERAGE WORK) ITEMS BASED ON SCHEDULE RATES					8,386,937.00

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
PART - G (WATER SUPPLY WORK) ITEMS BASED ON SCHEDULE RATES					
1	Excavation for Pipe line / Drain Work in Trenches, and pits in Soft rock by Hammering and chieslling where blasting is not practicable or prohibited i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as per directed by engineer incharge, Providing frence guards, light flags and temporary crossing for non-vehicular traffic where ever required lift upto 5ft(1.52m) and lead upto one chain (30.5m) (Sch/Vol-IV/Part-VI/Chp-3/Pg-62, ltm-06)	65,810.70	10,770.00	%0Cft	708,781.28
2	Excavation for Pipe line / Drain Work in Trenches, and pits in Soft rock by Hammering and chieslling where blasting is not practicable or prohibited i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within a one chain as per directed by engineer incharge, Providing frence guards, light flags and temporary crossing for non-vehicular traffic where ever required lift upto 5ft(1.52m) and lead upto one chain (30.5m) (Sch/Vol-IV/Part-VI/Chp-3/Pg-63, ltm-10)	65,810.70	24,150.00	%0Cft	1,589,328.49
3	Cartage of 100 CFT / 5 tons of all material likes one aggregate, spawl, coal, lime, surkhi etc. B.G. Rait fastenings points & crossing Bridges Girders, Pipes, Sheets Raits, M.S. Bars etc. or 1000 Nos brinks, 10' x 5' x 3' or 1000 manuds of fuel wood by trucks or any other means owned by the contractors (Lead upto 10 Miles etc). CSR-2012. (Sch/Vol-III/Part IV/	131,621.41	1,065.00	% Cft	1,401,767.99
4	P/L Granular sub-base course material over prepared sub grade in conformity with liner grader thickness and typer cross section as shown in drawing for new pavements at grade wideining exisiting pavement using well graded granular crushed stone with sand and silt having a smooth gradation curve with in the limit for grading C or D as per AASHTO T-180 method D using approved minerals means of i/c watering with all land and lift complete as per specification as directed by the Engineer Incharge. (Vol-III, (Highways), Chap-2, Pg-4, Sr.11-d)	40,855.74	3,341.71	% Cft	1,365,280.27

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
5	Full hire charges of the pumping set per day inclusive of wage of driver and assistant fuel or electric energy plate form required for placing pump etc at lower depth with suction and delivery pipe for pumping out water found at various depth from trenches i/c the cost of erection and dismantling after completion of the job. Higher charge of pumping set of into 10 HP (but not less than 5 HP) pumping out water from 10' deep trench (Sch/Vol-IV/Part-VI-Pg-77,itm- 23(iv))	60.00	1,500.00	P.Day	90,000.00
6	Providing laying & fixing in trench including fitting joining & testing etc complete in all respect the high density polythene PE pipes (HDPE-100) for W/S confirming ISO 4427/Din8074/8075 B.S 3580 & PSI3051. PN-10.....				
a)	110 MM	399.99	268.00	P.Rft	107,196.44
b)	160 MM	800.01	530.00	P.Rft	424,003.30
c)	200 MM	1,000.02	833.00	P.Rft	833,013.32
d)	250 MM	3,911.51	1,267.00	P.Rft	4,955,882.88
e)	315 MM	2,000.00	1,998.00	P.Rft	3,995,998.34
7	Manufacturing, Supplying & fixing balck steel M.S pipe made out of M.S sheet confirming to API 5L grade X- 42 Spirally Welded & Externally asphalt coated with fiber glass 5mm thick (3 layers) & Internaly C.C lining 8mm thick (AWWA specification) i/c laying jointing with Hilical welding in trenches i/c cost of bends of any degree & testing with water specified pressure for different dia of pipes as below:(Spirally welded)				
a)	6.4mm thick (18" Dia)	13,124.00	6943.69	P.Rft	91,128,987.56
b)	7.1mm thick (24" Dia)	13,124.00	10295.36	P.Rft	135,116,304.64
8	Providing C.I sluice valve heavy Pattern (Test Pressure 21.0kg/sq. com or 300 lb/sq:inch) (imported)				
a)	..... 12" dia.	10.00	78,000.00	P.Rft	780,000.00
b)	..... 10" dia.	8.00	27,690.00	P.Rft	221,520.00
c)	..... 08" dia.	10.00	17,940.00	P.Rft	179,400.00
d)	..... 06" dia.	8.00	9,360.00	P.Rft	74,880.00
e)	..... 04" dia.	6.00	5,460.00	P.Rft	32,760.00

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
9	Fixing of sluice valves with 2cast iron tailpieces one end flanged and other with socked including the cost of nuts bolts and rubber packing, labor etc. complete.				
a)	12" dia	10.00	3,281.00	Each	32,810.00
b)	10" dia	8.00	3,319.00	Each	26,552.00
c)	08" dia	10.00	2,790.00	Each	27,900.00
d)	06" dia	8.00	1,886.00	Each	15,088.00
e)	04" dia	6.00	1,532.00	Each	9,192.00
10	Construction of C.C Block masonry chamber of size 4'x4'x4' (inside dimension) with 24"x24" C.I cover from with 50 kg fixed R.C 1:2:4 flooring ½" dia for bars@ 6" C.C with chamber sent up both way distribution bar 6" C.C 1:4:8 in foundation 2" thick c.c 1:2:4 flooring ½" thick cement plaster 1:3 ratio inside wall surface 1 feet deep up to roof slab M.S foot rest 5/8" bars at every 2foot deep 1/c curing dewatering excavation refilling and disposal of surplus earth complete 4'x4'x4'.	42.00	28,357.00	Each	1,190,994.00
TOTAL COST OF PART - G (WATER SUPPLY WORK) ITEMS BASED ON SCHEDULE RATES					244,307,641.00

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
	PART - H (ELECTRIC WORK) ITEMS BASED ON NON-SCHEDULE RATES				
1	Supply, Installation, Testing & Commissioning of following items including all material, tools, labor & accessories required for completion of works, Complete in all aspects. Note: Contractor is advised to confirm the cable running lengths and termination as per site conditions before commencement of work.				
a	Circuit wiring from SLCP-A to Flood Light / Tunnel Light with 3 x 6 Sq.mm in 25mm dia, complete in all aspects. From Ramp-1 to Ramp-2	2,994.00		Rft	
b	Circuit wiring from SLCP-A to Flood Light / Tunnel Light with 3 x 6 Sq.mm in 25mm dia, complete in all aspects. From Ramp-2 to Ramp-1	2,994.00		Rft	
c	Circuit wiring from SLCP-A to Air Jet System	6,000.00		Rft	
d	Circuit wiring from SLCP-B1 to double lit light pole with 3 x 6 Sq.mm in 25mm dia, complete in all aspects. Location: Ramp-1	1,000.00		Rft	
e	Circuit wiring from SLCP-B2 to double lit light pole with 3 x 6 Sq.mm in 25mm dia, complete in all aspects. Location: Ramp-1	1,000.00		Rft	
2	Supply, Installation, Testing and Commissioning of SMD LED Street Light Fixtures, complete in all respects, as per specification, drawings and engineer approval, Light fixture must easily install on existing double arm, Lighting fixture samples with existing arm must be 140W SMD-LED Street Light Fixtures Rated wattage = 90W ± 9% (85W to 100W) Lumens: 120 to 150 lm per watt, IP66/IP67 or equivalent compliance required IK08/IK09 or equivalent compliance required IEC60598 or equivalent compliance required Color temperature: 4000K (As approved by Consultant & Client) Rated voltage: 220VAC Surge protection required (min. 10kVA) Housing material: Aluminum Required working temperature: -5°C to 50°C Product Life ≥ 50,000 hrs @ LM79 & LM80 Product Warranty ≥ 5 years	70.00		No	

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
3	Supply, Installation, termination, Testing and commissioning of following Aerial bundled Cables (ABC) 4 x 16 sq.mm pvc Aluminum 600/1000V as per K.E , client and consultant req. along with IEC Standards & Specifications.	200.00		Rft	
4	Supply, Installation, Testing & Commissioning of ABC Cable Termination (IBC Point - P+N+E) & Support accessories including necessary items as per K.E Standards & Specification.	9.00		No	
5	Earthing is required (Supply and fixing) to give earth resistance value less than or equal to 1 Ω and it should not deteriorate with time. Earthing must comply as per K.E Standards & specification.	24.00		Job	
6	<p>Supply, installation, Testing and commissioning of Street Light Tubular 8meter high Pole, as approved, Pole should be MS powder, coated paint with approved color including following arms. As per following specification, drawings and Engineer approval.</p> <p>Pole & Base:</p> <ul style="list-style-type: none"> • microns: 80/100 - Powder Coated • Wall thickness: 4mm, 3mm and 3mm. • Diameters: 140mm, 114mm and 88mm. • Self Inspection door with special key • NV65/EN40 standard for wind speed of 165-185 km/h. • IK08/IK09 or equivalent compliance required • IEC60598 or equivalent compliance required • IP66/IP67 or equivalent compliance required • Stiffeners: 04 nos. • Base plate: 375 X 375 X 20mm thick • Product Warranty: 5 years <p>Note: New Pole shall be resemblance with existing pole along with arm. The above detail is minimum requirement as approve by Engineer/Consultant.</p>				
a	Double Arm + 10m high pole	35.00		No	
b	Foundation as per Sindh Schedule for 8m high pole	35.00		No	
TOTAL COST OF PART - H (ELECTRIC WORK) ITEMS BASED ON NON-SCHEDULE RATES					

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
PART - I (VENTILATION SYSTEM) ITEMS BASED ON NON-SCHEDULE RATES					
1	Supply, Installation, Testing and commissioning of Air Jet Tunnel System along with all accessories. Complete in all aspects.	16.00		Job	
2	providing, installation, testing and commisioning of following outdoor type IP65 rated pad mounted lighting control panel (LCP) on concrete pad. This job include with all civil works as per drawing anspecification , complete in all respects (a)LCP -1 Incoming 1 No. 63 A TP MCCB (lcs 15KA) Timer contractor with photo sensor outgoing 10 Nos. 16A, TP MCCB	1.00		No.	
3	Providing installation,Testing and commissioning of following distribution board for underpass (DB-UP's) on wall mounted. As per drawing and specifications, complete in all repects (a)DB-UP-1 & DB-UP-2 Incoming 1 No.40A TP MCCB (ics 15 KA) Outgoing 10 Nos. 10A, TP MCCB	2.00		No	
4	providing, installation, testing and commisioning of sub main- distribution board (SMDB) for pumps on wall mounted as per drawing and specification, complete in all respects: DB-UP-1 & DB-UP-2 INCOMING 1 No.150 A,TP MCCB (lcs 25KA) Outgoing 3No.80A, TP MCCB 3NO. 20A,TP MCCB 2No.10A,TP MCCB	1.00		Job	

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

<u>S. No</u>	<u>ITEMS</u>	<u>QUANTITIES</u>	<u>RATES</u>	<u>UNITS</u>	<u>AMOUNT</u>
5	Providing, installing, testing & commissioning of following Pad mounted type Feeder Pillar (F.P) made with 14/16 SWG sheet metal, Weather proof, dust protected, vermin proof housing, conforming to protection class (IP-65), epoxy powder coated 9 paint with approved color, having all the necessary accessories and protections, etc. as per specifications and SLD complete in all respect. with providing shop drawings, manual and warranty documents to owners representative /Consultant a) Feeder Pillar (FP) INCOMING 1 No.300A, TP MCCB (ICS 25 kA) OUTGOING 1 No.150A,TP MCCB 1 No.63A,TP MCCB 4 No.40A,TP MCCB 3 No.20A,TP MCCB	1.00		No	
6	Providing and construction of RCC foundation (PAD) for respective feeder pillars (FP). Construction of class C concrete use water resistance chemical , water proofing material applied on structure surfaces are concealed below FGL/FLL, pad size as per base of FP as per K-Electric specification and is directed by the consultant, complete in all respect	1.00		M	
7	supply installation testing and commissioning of 150A, automatic transfer switch (ATS) with manual bypass switch as per specification and drawing, complete in all respects	1.00		Job	

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
8	providing, installing, testing and commissioning of following sizes 600/1000 volts grade copper conductor armoured cables from nearest power supply upto transformer, transformer to FP, FP TO ATS panel, ATS panel to generator, ATS panel to MCP, FP TO LCP, FP TO DB-UP, FP TO LED screens, LCP to Lighting pole, lighting pole to lighting pole, directly buried in already excavated trench of size as it may require. complete in all respects as per specification drawing				
a	a) 4c-120 sq.mm Cu.PVC/SWA/PVC +1C-70SQ.MM PVC AS ECC	40.00		M	
b	b) 4c-95 sq.mm Cu.PVC/SWA/PVC +1C-35SQ.MM PVC AS ECC	55.00		M	
c	c) 4c-70 sq.mm Cu.PVC/SWA/PVC +1C-35 SQ.MM PVC AS ECC	30.00		M	
d	d) 4c-25 sq.mm Cu.PVC/SWA/PVC +1C-16 SQ.MM PVC AS ECC	35.00		M	
e	e) 4c-16 sq.mm Cu.PVC/SWA/PVC +1C-16 SQ.MM PVC AS ECC	2,500.00		M	
f	b) 4c-10 sq.mm Cu.PVC/SWA/PVC +1C-10 SQ.MM PVC AS ECC	600.00		M	
9	excavation of trenches in hard ? Soft soil back filling after laying of cable , cost including providing fresh sand 6" under the cable , laying and protection bricks on sand , warning tape and backfilling compaction etc. as per drawing and specification, complete in all respect	1,875.00		Cu.m	
10	providing, installing, testing and commissioning of following sizes of 600/1000 volts grade copper conductor unarmoured cables from SMDB-P to isolators in cable trunking run in pump room . Complete in all respects as per specification and drawing. a) 4c-35 sq.mm Cu.PVC/PVC +1c-25 sq.mm PVC as ECC in 50mm dia rigid PVC Conduit	20.00		M	
11	Supply installation testing and commissioning of circuit wiring from DB -UP to 1st .light point (underpass) with 4c-4 sq.mm 600/1000V PVC/PVC +1c-4sq.mm PVC as ECC single core PVC insulated copper wire in 50mm dia PVC conduit with all conduit accessories. complete in all respects as per specification and drawings	8.00		No	

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

<u>S. No</u>	<u>ITEMS</u>	<u>QUANTITIES</u>	<u>RATES</u>	<u>UNITS</u>	<u>AMOUNT</u>
12	supply, insatllation, testing and commisioning of wiring from light poit to light point (underpass) with 4c-4 sq.mm 600/1000 PVC/PVC +1c-4 sq.mm as ECC single core PVC insulated copper wires in 50 mm dia PVC conduit with all conduit accessories. complete in all respects as per specification and drawings	56.00		No	
13	providing and laying of following sizes of uPVC class "D" pipes for road crossing. Buried in ground as per drawing.including excavatio for laying of pipe and backfilling per specification and drawings in all respects a)150 mm dia U pvc	100.00		Job	
14	providing,installing, testing and commisioning of 3 core 2.5 sq.mm PVC/PVC,450/750 volts grade cable for each light from cable terminal box to luminaries complete in all respects	600.00		M	
15	providing, installing ,testing and commisioning of terminal box IP 65 including 1 No. 4A, circuit breaker with terminal, complete in all respects	42.00		Nos.	
16	providing, installing ,testing and commisioning of terminal box IP 65 including 2 No. 4A, circuit breaker with terminal, complete in all respects	25.00		Nos.	
17	providing, installing ,testing and commisioning of terminal box IP 65 including 3 No. 4A, circuit breaker with terminal, complete in all respects	2.00		Nos.	
18	providing, installing ,testing and commisioning of terminal box IP 65 including 4 No. 4A, circuit breaker with terminal, complete in all respects	4.00		Nos.	
19	providing, installing, testing and commisioning of 3c-120 sq.mm Al.XLPE/SWA/PVC MV cable from nearest scoured of K-electric power supply for incoming cable to 1No. 150 Kva transformers as required as per site and including cost of excavation for laying cable ,brick, watning tape and backfilling with new aned fresh sand (6" under and 6" above cable)complete in all respects	1.00		Job	

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
20	supply, installation, testing & commissioning of 80 KVA (prime power rated) 3 phase-4 wire -400V diesel generator set with weatherproof canopy and electronic governor, ATS , an advanced LCD display control panel (programmable) as specification . Including transportation upto site and safety store. exhaust piping, ducting, critical silencer, with elbow, base fuel tank(8 hrs. min) etc. also inclusive of power cable and termination	1.00		No.	
21	prepare RCC base as foundation/ pad for above 1 No. generator (as per recommendation of manufacturing & specification)with the approval of engineer, complete in all respect.	1.00		Job	
22	supply and handing over to client representative of standard spare parts as recommended by manufacturer for operation of 1000 hours for D.G set(itemized list of spares to be provided as per specification)	1.00		Lot.	
23	supply, installation, testing & commissioning of following isolator switch pumps etc in 16 SWG sheet metal steel enclosure with neutral and earth terminal strips, including all accessories as shown on drawing, complete in all respects a)50A, TPN weatherproof type	3.00		Nos.	
24	supply, installation ,testing of earthing pit	14.00		Nos.	
25	supply, installation, testing and commissioning of earthing pit with 3 meter long 20 mm dia earth copper rod for transformer, generator, feeder pillar ,LCP,DB-UP,between pole to pole , in PVC conduit complete in all respects as per specifications				
a	a) 1c-70sq.mm as ECC	90.00		M	
b	b)1c-16sq.mm as ECC	2,100.00		M	
c	c) 1c-10sq.mm as ECC	550.00		M	
26	Dismantling and removing of existing street light poles, light poles, light fixture and other accessories from site and handover yo handover authority	25,000.00		Job	

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
27	supply, insatllation, testing and commisioning of following 10/15/16 Amps, one /two/three/four gang type switches & dimmer switches, sockets including 16 SWG sheet steel powder coated back boxes with earth terminal, recessed in wall, complete in all respects				
a	i)one gang switch 10A	1.00		NO.	
b	ii)two gang switches 10A	1.00		NO.	
c	iii)10A, switch sockets until waterproof type	1.00		NO.	
d	iv) 15A, switch socket outlet waterproof type	1.00		NO.	
28	supply, installation,testing, and commisioning of following light fixtures complete with starters, electronic ballast (mention otherwise), lamps drivers, mounting accessories etc. complete in all respects . Lighting fixture sample must be submitted to consultant for approval, (for complete detail reference of light fixtures, please refer to light fixture schedules)				
a	i)ceiling/wall mounted flourescent light fixture (IP-65) with 2 x 36WT8	2.00		no.	
b	ii)external wall ligh fixture (IP-54) with 1 x18 W CFL	1.00		NO.	
29	supply, installation, testingand commisoing of following items including all connecting accessories as per drawing and specifications , complete in all respects				
a	i)18" dia wall bracket fan	1.00		no.	
b	ii) 9" dia exhaust pipe	1.00		no.	

KARACHI DEVELOPMENT AUTHORITY

NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL

BILL OF QUANTITIES

S. No	ITEMS	QUANTITIES	RATES	UNITS	AMOUNT
30	supply, installation, testing & commissioning of circuit wiring from SMDB-pump to switchboard including wiring between switch on same circuit with 2 x 2.5 sq. mm. +1 x 2.5 sq. mm as ECC single core copper conductor PVC insulated wires in 20mm dia PVC conduit surface /recessed in wall, column, etc including with all conduit accessories as per drawing and specification, complete in all respects	1.00		NO.	
31	supply , installation, testing & commissioning of point wiring from SMDB-pump to switchboard including wire between switch on same circuit with 2 x 2.5 sq. mm +1 x 2.5 sq. mm as ECC single core copper conductor PVC insulated wires in 20mm dia PVC conduit surface/ recessed in wall, column, etc including all conduit accessories as per drawing and specification, complete in all respect	2.00		no.	
32	supply, installation, testing & commissioning of point wiring from light point with 3 x 1.5 sq. mm single core copper conductor PVC insulated wires in 20mm dia or appropriate dia PVC conduit, complete in all respects	1.00		no.	
33	supply, installation, testing and commissioning of wiring for 10A ,socket outlet with 2x2.5 sq. mm +1 x 2.5 sq. mm single core copper conductor PVC insulated wires in 20 mm dia conduit surface/ recessed wal, column ,ceiling etc, including with all conduit accessories , as per drawing and specification, complete in all respects i) SMDB to socket outlet	1.00		no.	
34	supply, installation, testing and commissioning of circuit wiring of 15A, socket with 2 x 4 sq. mm at ECC single core copper conductor PVC insulated wires in 20 mm dia PVC conduit surface/ recessed in wall, column, ceiling etc with all conduit accessories as per drawing and specification. complete in all respect	1.00		No.	
TOTAL COST OF PART - I (VENTILATION SYSTEM) ITEMS BASED ON NON-SCHEDULE RATES					

KARACHI DEVELOPMENT AUTHORITY

**NAME OF WORK : CONSTRUCTION OF A 2 + 2 LANE UNDER PASS AT KARIMABAD DISTT: CENTRAL
(ADP # 2371 / 2022-23)**

ESTIMATE COST : 1249.959 (MILLIONS)

TIME LIMITE : 18 MONTHS

I / We hereby quote as follows:

QUOTED BID (SUMMARY)

		IN FIGURES	IN WORDS
1	PART - A (ROAD WORKS) (Item Based on Schedule Rates) amounting Rs. 96,470,492/- @ _____ % Above / Below on Item Schedule Items		
2	PART - B (ANCILLARY WORK) (Item Based on Schedule Rates) amounting Rs. 8,127,097/- @ _____ % Above / Below on Item Schedule Items		
3	PART - C (BARREL STRUCTURE) (Item Based on Schedule Rates) amounting 181,934,632/- @ _____ % Above / Below on Item Schedule Items		
4	PART - D (RETAINING WALL) (Item Based on Schedule Rates) amounting Rs. 100,776,041/- @ _____ % Above / Below on Item Schedule Items		
5	PART - E (DRAINAGE FOR UNDERPASS) (Item Based on Schedule Rates) amounting Rs. 45,387,265/- @ _____ % Above / Below on Item Schedule Items		
6	PART - E (DRAINAGE FOR UNDERPASS) (Item Based on Non-Schedule Rates)		
7	PART - F (SEWERAGE WORK) (Item Based on Schedule Rates) amounting Rs. 8,386,937/- @ _____ % Above / Below on Item Schedule Items		
8	PART - G (WATER SUPPLY WORK) (Item Based on Schedule Rates) amounting Rs. 244,307,641/- @ _____ % Above / Below on Item Schedule Items		
9	PART - H (ELECTRIC WORK) (Item Based on Non-Schedule Rates)		
10	PART - I (VENTILATION SYSTEM) (Item Based on Non-Schedule Rates)		

QUOTED BID (SUMMARY)

		IN FIGURES	IN WORDS
11	DIFFERENCE COST OF MATERIAL amounting Rs. 228,328,596/-	228,328,596.00	Rupees Twenty Two Crore Eighty Three Lac Twenty Eight Thousand Five Hundred Ninety Six Only
12	ADD @ 5% SRB TAX ON QOUTED AMOUNT		
	GRAND TOTAL AMOUNT		

The total amount is Rs. _____ (In Figure) (Rupees _____ (In Word)

_____ for the complete job for all schedule of rate, approved rate (whichever is included in the BOQ). The same amount will

be considered as final and announced at the time of opening of Bid.

I / We have attach a Bid Security as per NIT in shape of pay order bearing No. _____ dated _____ amounting to Rs. _____ issued from

NOTE:

- * Tender must be qouted in figure & in word both otherwise laible to be cancelled.
- * All over writing & correction if any must be initialed & stamped by the bidder.
- * All SPPPRA Rules / Notification must be followed if agreed, Contractor must sign and stamp the Quoted Bid.

Signature of the Contractor with Stamp

Address: _____

**SIGNATURE & STAMP OF
TENDER ISSUING AUTHORITY**