

# **SPPRA BIDDING DOCUMENT**

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

## **STANDARD FORM OF BIDDING DOCUMENT**

Electronic bids are invited through EPADS

**Estimated cost Rs. 377.300 MILLION**

**Name of Work:** CONSTRUCTION & REHABILITATION OF  
4NOS STRUCTURES OF DARYA KHAN  
BRANCH DRAIN, TANDO MUHAMMAD  
KHAN DRAINAGE DIVISION

**Issued To:-**

\_\_\_\_\_  
**Government Contractor.**

**Pay order No. & Date :-**\_\_\_\_\_

**EXECUTIVE ENGINEER  
T.M.KHAN DRAINAGE DIVISION  
T.M.KHAN**

**SEPTEMBER , 2026**

**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” is 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 (Amended 2019). 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 number 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” and, referring to 1.1.4.6 and 13.4 of 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.

**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 equipment's 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 Engineer, as the case may be, are to be 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 with the words “or equivalent”. 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 recognized 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

Dated: 11.09.2026

1. The **Executive Engineer, Tando Mohammad Khan Drainage Division, Tando Mohammad Khan** has received funds from the Government of Sindh towards the cost of Rs. **377.300** million. 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 **“Construction & Rehabilitation of 4 Nos. Structures of Darya Khan Branch Drain, Tando Muhammad Khan Drainage Division**

Procuring agency invites sealed bids from interested firms or persons licensed by the Pakistan Engineering Council (PEC) in the category **C-3 & above** for the works and in discipline 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 bye-laws.

2. Bidders may obtain information by acquiring the bidding documents (BD) from the Office of the procuring agency, up to **16-10-2026 at 11:00 AM**.
3. A complete set of Bidding Documents may be purchased by an interested bidder on submission of a written application to the above office and upon payment of a non-refundable fee of Rs. **5,000/-**.

All bids must be accompanied by **Earnest Money/Bid Security equivalent to 5% of the Estimated Cost, amounting to Rs.188,65,000/- (Rupees Eighteen Million Eight Hundred Sixty-Five Thousand Only), in the shape of Call Deposit/Bank Guarantee**, or an equivalent amount in a freely convertible currency, and must be uploaded through **E-PADS** at <https://portalsindh.eprocure.gov.pk>. and downloaded documents shall be enclosed with pay order of Rs. 5000/- (Non refundable) self or his representative in the **Office of the Executive Engineer, Tando Mohammad Khan Drainage Division, Tando Mohammad Khan** at or before **11:00 AM**, on dated: **16-10-2026**. Bids will be opened at **12:00 (Noon)** on the same day, in the presence of bidder's representatives who choose to attend at the same address.

3. Procuring agency reserves right to cancel the bidding process and reject all bids or proposals, as per SPP Rules 2010.

**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**

Procuring agency as defined in the bidding data hereinafter called “the procuring agency” wishes to receive bids for the construction and completion of works as described in these bidding documents, and summarized in the bidding data hereinafter referred to as the “Works”.

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**

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

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

ensure the bidders capability to fulfill the contract in question. The prequalification criteria for selection of suitable bidders/firms are given as **Annexure - A**

(a) Bidders may be excluded if;

as a matter of law or official regulations, commercial relations are prohibited with the bidder's country by the federal government in case of ICB, or

(i) 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 and Sindh Revenue Board (SRB), 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**

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.

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)**

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.

The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the bidder's own risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the 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 an 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, it's 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 receipt 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 the technical 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 the "Foreign Currency Requirements") shall indicate the same in Appendix-B to Bid. The proportion of the bid price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in 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 Performance Security or sign the Contract Agreement.

#### **IB.16 Alternate Proposals/Bids**

- 16.1 Each bidder shall submit only one bid either by himself, 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. One stage two envelope bidding procedure will be appropriate when alternate proposal is required.
- 16.3 Alternate bid(s) shall contain (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details / conditions, provided that the total sum entered on the Form of Bid shall be that which represents complete compliance with the bidding documents.

#### **IB.17 Pre-Bid Meeting**

- 17.1 Procuring agency may, on his own motion or at the request of any bidder, hold a pre- bid meeting to clarify issues and to answer any questions on matters related to the bidding documents. The date, time and venue of pre-bid meeting, if convened, shall be communicated to all bidders. All bidders or their authorized representatives shall be invited to attend such a pre-bid meeting at their own expense.



- 17.2 The bidders are requested to submit questions, if any, in writing so as to reach the Procuring agency not later than seven (7) days before the proposed pre-bid meeting.
- 17.3 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all bidders. Any modification of the bidding documents listed in sub-clause IB 7.1 hereof, which may become necessary as a result of the pre-bid meeting shall be made by the procuring agency exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.
- 17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a bidder.

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

- 18.1 Bidders are particularly directed that the amount entered on the Form of Bid shall be for performing the contract strictly in accordance with the bidding documents.
- 18.2 All appendices to bid are to be properly completed and signed.
- 18.3 Alteration is not to be made neither in the form of bid nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.
- 18.4 Each bidder shall prepare by filling out the forms without alterations and shall provide an original copy along with photocopies as per the requirement of the procuring agency specified in the bidding data. The original as well as copies of the document shall be clearly marked as “ORIGINAL” and „COPY”, as the case may be. If there is any discrepancy between original and copy  
  
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 uploaded through EPAID .
  - (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 it is declared “late” pursuant to Clause IB.21

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

#### **IB.20 Deadline for Submission of Bids**

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

(b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims shall be entertained for refund of such expenses,

(c) Where delivery of a bid is by mail and the bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package,

(d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.

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

### **IB.21 Late Bids**

- (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 be the bidder's responsibility to submit the bid in time.

### **IB.22 Modification, Substitution and Withdrawal of Bids**

- 22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the procuring agency prior to the deadline for submission of bids.
- 22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.
- 22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with to sub - clauses IB 22.1 and IB 27.2.
- 22.4 Withdrawal of a bid during the interval between the 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 bidders“ representatives who choose to attend, at the time, date and location stipulated in the bidding data. The bidders or their representatives who are in attendance shall sign an attendance sheet.

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

#### **IB.24 Process to be Confidential. (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 its website exists and intimated to all bidders at least seven (7) days prior to the award of contract. The announcement to all bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the bids evaluated. Any effort by a bidder to influence the procuring agency’s processing of bids or award

decisions may result in the rejection of such bidder's bid. Whereas, any bidder feeling aggrieved, may lodge a written complaint as per Rule 31; however mere fact of lodging a complaint shall not warrant suspension of 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 code 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 obligations under the contract; or (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

- 26.4 If a bid has major deviations to the commercial requirements and technical specifications will be considered technically non responsive. As a general rule, major deviations are those that if accepted, would not fulfill the purposes for which the bid is requested, or would prevent a fair comparison or affect the ranking of the bids that are compliant with the bidding documents.

**(A). Major (material)**

**Deviations include:**

- (i) Has been not properly signed;
- (ii) is not accompanied by the bid security of required amount and manner;
- (iii) stipulating price adjustment when fixed price bids were called for;
- (iv) failing to respond to specifications;
- (v) failing to comply with Mile-stones/Critical dates provided in Bidding Documents;
- (vi) sub-contracting contrary to the Conditions of Contract specified in Bidding Documents;  
refusing to bear important responsibilities and liabilities allocated in the Bidding Documents, such as performance guarantees and insurance coverage;
- (vii) Taking exception to critical provisions such as applicable law, taxes and duties and dispute resolution procedures;
- (viii) 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;  
Excluding provisional sums (if any), for contingencies in the Summary Bill of Quantities and
  - (b)
  - (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 work to be performed under the contract, the procuring agency may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the procuring agency may require that the amount of the Performance Security set forth in clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the procuring agency against financial loss in the event of default of the successful bidder under the contract.
- 28.5 Bidders may be excluded if involved in **“Corrupt and Fraudulent Practices”** means either one or any combination of the practices given below SPP Rule2 (q);
- (i) **“Coercive Practice”** means any impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the

party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;

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

## **28.6 Evaluation Report (SPP Rule 45)**

After the completion of evaluation process, as described in clauses IB 27 and IB 28, the procuring agency shall announce the results of bid evaluation in the form of report (available on the website of the authority) giving reasons for acceptance and rejection of bid. The report shall be hoisted on website of the authority and that of procuring

agencies if its website exists and intimated to all bidders at least seven (7) days prior to the award of contract.

## **F. AWARD OF CONTRACT**

### **IB.29 Award (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 capacities, may 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 to reject all 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 (“Letter of Acceptance”) that his bid has been 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 works by the contractor as prescribed by the contract (hereinafter and in the conditions of contract called the “Contract Price”).

31.2 No negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted, however, procuring agency may hold meetings to clarify any item in the bid evaluation report.

31.3 The notification of award and its acceptance by the bidder will constitute the formation of the contract, binding the procuring agency and the bidder till signing of the formal Contract Agreement.

31.4 Upon furnishing by the successful bidder of a Performance Security and signing of the contract, the procuring agency will promptly notify the name of the successful bidder to all bidders and return their bid securities accordingly.

31.5 Within seven days of the award of contract, procuring agency shall publish on the website of the Authority and on its own website, if such a website exists, the results of the bidding process, identify the bid through procurement identifying numbers, and the following information:

- (1) Evaluation Report;
- (2) 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 days beyond the date of completion of contract, or as mentioned in the bidding data to cover defects liability period or maintenance period subject to final acceptance by the procuring agency.

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

33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the procuring agency will send the successful bidder the Contract Agreement in the form provided in the bidding documents, incorporating all agreements between the parties.

33.2 The formal Agreement between the procuring agency and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the procuring agency.

33.3 A procurement contract shall come into force when the procuring agency requires signs contract, the date on which the 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.

#### **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.

**Evaluation Criteria for Technical Proposal**

The criteria developed for calculation of the technical proposal is detailed as under:

“This Invitation to Bid is open to all Bidders meeting the following requirements:

**Eligibility/Mandatory**

1. Valid registration with the Pakistan Engineering Council (PEC) in the category stated against the relevant work, valid for the current financial year, together with the specialized codes appropriate to the nature of the work as specified in the bidding documents.
2. Experience of similar nature of works (at least one work of 80% of the estimated cost OR two works of 50% of the estimated cost) executed during last five years is required duly supported with completion certificate, certified copies of Detailed Working Estimate, Bid evaluation report, and SPPRA ID.
3. Details (Bio Data) of key Engineering and Technical personnel proposed for the work, including qualifications and relevant experience, as required in the bidding documents.
4. Annual turnover of at least equal to estimated cost, in the last 5 years i.e. 2021-22, 2022-23, 2023-24, 2024-25, 2025-26, (turnover will be evaluated from annual returns and Audit Reports), Annual Income Tax returns of the last Five Years i.e. 2021-22, 2022-23, 2023-24, 2024-25, 2025-26.
5. Annual audited reports of the last five years (2021-22, 2022-23, 2023-24, 2024-25, 2025-26 ) from (ICAP) registered audit firm. Audit reports issued by other than (ICAP) registered audit firms will not be accepted.
6. List of essential construction machinery and equipment, with evidence of ownership, lease, rental, or assured access, as permitted by the bidding documents.
7. At least 40% or more annual average balance is required in the last 05 years (2021-22, 2022-23, 2023-24, 2024-25, 2025-26) to the estimated cost of work applied. Fresh Bank certificate (in original) must be attached, stating the annual average balance for the given period.
8. Evidence of financial resources / access to credit facilities and bank statements for the period specified in the bidding documents. Any minimum financial-capacity requirement shall be stated in the bidding documents.
9. Valid NTN / registration with the Federal Board of Revenue and active taxpayer status, where applicable.
10. Valid registration with the Sindh Revenue Board (SRB), where applicable.
11. Each page of the technical proposal must be numbered and attested by the owner of the firm / company along with its stamp.
12. Bid security in shape of Call Deposit/Bank Guarantee will be accepted, (As mentioned above for each work.
13. The bidder shall not be debarred or blacklisted from participation in public procurement under the applicable law, rules or regulations. A declaration/undertaking to this effect shall be furnished in the prescribed form.



14. All information and documents submitted with the bid shall be authentic and verifiable. False, forged, or materially misleading information may result in rejection and further action under the applicable procurement law and regulations.

### **SINGLE STAGE – TWO ENVELOPE PROCEDURE**

- a. Each bid shall comprise one package containing two separate proposals: a Technical Proposal and a Financial Proposal, submitted/identified through E-PADS in the prescribed manner.
- b. Initially, only the Technical Proposals shall be opened and evaluated against the criteria stated in the bidding documents, without reference to price.
- c. No material amendment to a Technical Proposal shall be permitted during evaluation. Clarifications may be sought only to the extent permitted under the SPP Rules and shall not alter the substance or price of the bid.
- d. Financial Proposals of technically qualified bidders shall be opened publicly / through E-PADS on the date and time communicated to the qualified bidders in advance.
- e. Financial Proposals of technically non-responsive bidders shall remain unopened / be dealt with through E-PADS in accordance with the applicable procedure.
- f. Award shall be made to the Most Advantageous Bid, determined strictly in accordance with the evaluation criteria and the SPP Rules, subject to approval by the competent authority.

### **GENERAL TERMS & CONDITIONS**

- 1. Bids received after the prescribed deadline shall not be accepted by E-PADS / shall be treated in accordance with the applicable electronic procurement procedure.
- 2. Bidding documents and other terms and conditions can be seen or downloaded from the official website of SPPRA/E-PADS i.e <https://portalsindh.eprocure.gov.pk>. Downloaded documents shall be enclosed with apay order of Rs.5000/- (Nonrefundable). The tender fee amounts to PK Rs. 5000/- and the bid security against work in the shape of a Bank Guarantee or Call Deposit from any scheduled bank of Pakistan in favor of the Executive Engineer, Tando Muhammad Khan Drainage Division, Tando Muhammad Khan on account of (Name of firm) should be attached with the Technical Bid, otherwise such tenders will not be entertained.
- 3. The Technical Proposal and Financial Proposal, together with all required supporting documents, shall be clearly scanned and uploaded electronically through the E-Pak Acquisition and Disposal System (EPADS) on or before the prescribed bid submission deadline. Only bids submitted electronically through E-PADS within the stipulated time shall be considered. Bids submitted by any other means or after the specified deadline shall not be entertained.
- 4. The Interested bidders must submit an original Bid Security in the shape of a Bank Guarantee or Call Deposit at Office of the Executive Engineer, Tando Muhammad Khan Drainage Division, Barrage Colony, Tando Muhammad Khan on or before the last fixed date & time and copy of the same should be uploaded on SPPRA EPAD website, failing which, the bid shall be rejected.
- 5. In accordance with the established protocols, if a bid is not reflected in the bid opening list in EPADS, it shall be deemed and treated as a "bid not submitted." Therefore, all participants are advised to verify the inclusion of their submissions in the bid opening list to avoid any misinterpretations regarding their bid status.
- 6. The bid validity period shall be 90 days from the deadline for submission of bids, unless otherwise stated in the bidding documents.
- 7. The Procuring Agency may seek clarifications of a bid in accordance with the SPP Rules; however, no bidder shall be permitted to alter the substance or price of its bid after the submission deadline.
- 8. The Procuring Agency reserves the right to reject all bids or proposals at any time prior to the acceptance of a bid or proposal, subject to the Sindh Public Procurement Rules, 2010 (as amended up to date), including recording and communicating the reasons as required by the Rules.
- 9. If the scheduled opening day is declared a public holiday or the opening cannot take place for a reason recognized under the applicable procurement procedure, the matter shall be handled in accordance with SPPRA/E-PADS requirements and the revised date/time, where required, shall be communicated through the prescribed channel.

10. Place for inquiries and physical proceedings, where required: **Office of the Executive Engineer, Tando Muhammad Khan Drainage Division, Barrage Colony, Tando Muhammad Khan. Telephone: 022-3341732.**

11. In case of any inconsistency between this NIT and the bidding documents, the applicable SPP Rules and the bidding documents issued through E-PADS shall govern.

***If any bidder fails to pass the above criteria will not be further evaluated and will be considered as fail.***

Furthermore, three main capabilities of Financial, Technical and Experience of each constructor/firm will be seen for evaluating purpose on the basis of Maximum Score (Points) for each capability as given below:

| <b>Item/Capability</b>      | <b>Maximum Score (Points)</b> |
|-----------------------------|-------------------------------|
| i) Financial                | 30                            |
| ii) Technical               | 30                            |
| iii) Experience             | 40                            |
| <b>Total Score (Points)</b> | <b>100</b>                    |

Over all minimum acceptable score points will be 70% for eligibility for financial bid.

| <b>Factor</b>      | <b>Maximum Score(points)</b> | <b>Minimum Acceptable Score (Points) for clearing the capability</b> |
|--------------------|------------------------------|----------------------------------------------------------------------|
| Financial Capacity | 30                           | 21                                                                   |
| Technical Capacity | 30                           | 21                                                                   |
| Experience         | 40                           | 28                                                                   |

#### **D) Financial Capacity**

Financial Capacity is assessed based on two factors, namely Estimated Cost of work (V) in Million rupees and Time of Completion of Contract (T) in 6 months, as under:  
**(V= 377.300 million)**

| Sub-Factors                                                                                                                                                          | Weighting (Points) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>a) Average Annual Income (i.e. Profit after Tax) from Contract works (Last 05 years)</b>                                                                          |                    |
| <p>Average Annual Income</p> $= \frac{\text{Annual Income of Works executed in last 5 years}}{5}$ <p>Ratio = <math>\frac{\text{Average Annual Income}}{V}</math></p> |                    |
| Between 1.0 and 1.5                                                                                                                                                  | 18                 |
| between 1.5 to 2.0                                                                                                                                                   | 19                 |
| Above 2.0                                                                                                                                                            | 20                 |
| <b>b) Available (C.L) from Reputable Bank</b>                                                                                                                        |                    |
| Ratio C.L/V                                                                                                                                                          |                    |
| Between 0.15 to 0.19                                                                                                                                                 | 8                  |
| 0.20 and above                                                                                                                                                       | 10                 |
| <b>Maximum Points</b>                                                                                                                                                | <b>30</b>          |

## II) Personnel and Technical Capability

**Personnel Required as under: 15 Points**

| Sr.No. | Position with Minimum Qualification   | Total Work Experience [years] | Experience in Similar Work [years] |
|--------|---------------------------------------|-------------------------------|------------------------------------|
| 1      | Project Manager (B.E Civil)           | 15                            | 10                                 |
| 2      | Site Construction Manager (B.E Civil) | 10                            | 5                                  |
| 3      | Contracts Manager (B.E)               | 15                            | 10                                 |
| 4      | Materials Laboratory Tech (D.A.E)     | 10                            | 5                                  |

**Requirement of equipment is as under:**

**15 Points**

| <b>Sr. No.</b> | <b>Equipment/Machinery Type and Characteristics</b> | <b>* Minimum Numbers Required</b> |
|----------------|-----------------------------------------------------|-----------------------------------|
| 1.             | Excavator                                           | 10                                |
| 2.             | Dump Trucks                                         | 10                                |
| 3.             | Transit Mixers                                      | 04                                |
| 4.             | Dozers                                              | 06                                |

---

**Maximum Points**

**30**

### **III) Experience**

#### **a) Experience as Main constructor/lead partner**

|                                    |   |
|------------------------------------|---|
| Less than 2 years Experience       | 0 |
| Between 2- and 5-years' Experience | 3 |
| Between 5- and 8-years' Experience | 4 |
| More than 8 years' Experience      | 6 |

#### **b) Experience as Main constructor/lead partner Similar Construction Works (Cumulated 200 Million Drainage works)**

|                                    |   |
|------------------------------------|---|
| Less than 2 years' Experience      | 0 |
| Between 2- and 5-years' Experience | 3 |
| Between 5- and 6-years' Experience | 4 |
| More than 6 years' Experience      | 6 |

#### **c) Experience with Similar nature works (No. of Contracts of not necessary Size "V" completed in last 5 years)**

|                          |    |
|--------------------------|----|
| None                     | 0  |
| One Contract             | 2  |
| Two Contract             | 4  |
| Three Contract           | 6  |
| Four Contract            | 8  |
| More than Four Contracts | 12 |

#### **d) Experience with Similar conditions or Similar nature, Contracts of not Necessary Size "V" in last 5 years) particular drainage works.**

|                |   |
|----------------|---|
| None           | 0 |
| One Contract   | 2 |
| Two Contract   | 4 |
| Three Contract | 6 |
| Four Contract  | 8 |

|                                                                                                |           |
|------------------------------------------------------------------------------------------------|-----------|
| More than Four Contracts                                                                       | 10        |
| e) Past Performance (Completion Certificates of last 5 years)                                  |           |
| Number of references in support of satisfactory<br>and timely completion of Contracts executed |           |
| No reference                                                                                   | 0         |
| One satisfactory reference                                                                     | 2         |
| Two satisfactory references                                                                    | 4         |
| Three or more than three satisfactory references                                               | 6         |
| <b>Maximum Points</b>                                                                          | <b>40</b> |

## **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

### Instructions to Bidders

#### Clause Reference

- 1.1 Name and address of the procuring agency: ***Executive Engineer, Tando Mohammad Khan Drainage Division, Tando Mohammad Khan,***
- 1.2 Name of the Project and Summary of the works: “ **Construction & Rehabilitation of 4 Nos. Structures of Darya Khan Branch Drain, Tando Muhammad Khan Drainage Division**
- 2.1 Name of the Borrower/Source of Financing/Funding Agency/Funding Source; **ADP Scheme .**
- 2.1 Amount and Type of Financing/Scheme Cost and Allocated Funds.
- 8.1 Time limit for clarification:
- Not later than 5 working days prior to last date of submission.
- 10.1 Bid language:
- English
- 11.1 (b) Furnish and Technical Proposal as described in Annexure-A
- 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.
- 14.1 Period of Bid Validity: **90 Days**



15.1 Amount of Bid Security: 5% of Earnest Money **188,65,000/-**

The sum 5% of estimated cost in shape of bank guarantee.

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

The meeting should take place not later than 7 days in case of NCB.

18.4 Number of copies of the bid to be completed and returned:

Bidder has to complete and submit one original and 02 copies.

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

**Office of the Executive Engineer, Tando Mohammad Khan Drainage  
Division Tando Mohammad Khan**

(b) **Name and Identification Number of the Contract: Construction & Rehabilitation of 4 Nos.  
Structures of Darya Khan Branch Drain, Tando Muhammad Khan Drainage Division**

20.1 (a) Deadline for submission of bids: **16-10-2026 at 11.00 AM**

(b) Venue, time, and date of bid opening: Office of the, *Executive Engineer, Tando Mohammad Khan Drainage Division* on **16-10-2026 at 12.00 Noon**

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

**Bid Security 5%** of the estimated cost in the shape of Bank Guarantee.

32.3 Stamp duty

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

*[% will depend upon the rules]*

**FORM OF BID**

**AND**

**APPENDICES TO BID**

**FORM OF BID**

To:

Executive Engineer,  
Tando Mohammad Khan Drainage Division

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.37,73,00,000/- (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. 188,65,000/-**) drawn in your favour or made payable to procuring agency and valid for a period of **90 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 (90) from the date fixed for Opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We do hereby declare that the bid is made without any collusion, comparison of figures or arrangement with any other bidder for the works.
8. We understand that you are not bound to accept the lowest or any bid you may receive.

9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause 10 of Conditions of Contract for the due performance of the Contract.

10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the procuring agency.

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: \_\_\_\_\_

## **Appendix-A to Bid**

## SPECIAL STIPULATIONS Clause Conditions of Contract

|     |                                                                                                                  |               |                                                                                                                                                                                              |
|-----|------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Engineer's representative Consulting Firm hired by the procuring agency to issue variation in case of emergency. | 3.1           | Up to 2% of the contract price stated in the Letter of Acceptance.                                                                                                                           |
| 2.  | Amount of Performance Security                                                                                   | 4.2           | 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. |
| 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.1,000,000 per occurrence with number of occurrences unlimited.                                                                                                                            |
| 5.  | Time for Commencement                                                                                            | 8.1           | Within 14 days from the date of receipt of Engineer's Notice to Commence, this shall be issued within fourteen (14) days after signing of Contract Agreement.                                |
| 6.  | Time for Completion (works & sections)                                                                           | 8.2 &<br>10.2 | <b>180 Days</b> from the date of receipt of Engineer's Notice to Commence.                                                                                                                   |
| 7.  | Amount of Liquidity Damages/Delay Damages/Penalties                                                              | 8.7           | 0.05% Damages per day but total amount will not be more than 10% of contract Price.                                                                                                          |
| 8.  | Defects Liability Period                                                                                         | 11.1          | <b>180 Days</b> 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. 20 million                                                                                                                                                                               |
| 12. | Time of Payment from delivery of Engineer's 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.                                                                                                                                    |

## Appendix-B to Bid

## FOREIGN CURRENCY REQUIREMENTS

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

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

**NOT APPLICABLE**

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

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

The source of indices and the weight ages or coefficients for use in the adjustment formula under Clause 13.8 shall be as follows: *(To be filled by the procuring agency)*

| Cost<br>Element | Description                                 | Weight ages | Applicable index                                                                                      |
|-----------------|---------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------|
| 1               | 2                                           | 3           | 4                                                                                                     |
| (i)             | Fixed Portion                               | 0.35        |                                                                                                       |
| (ii)            | Local Labor<br>i. Skilled<br>ii. Un-skilled |             | Government of Pakistan (GoP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin District |
| (iii)           | Cement – in bags                            |             | “ “ “                                                                                                 |
| (iv)            | Reinforcing Steel                           |             | “ “ “                                                                                                 |
| (v)             | High Speed Diesel (HSD)                     |             | “ “ “                                                                                                 |
| (vi)            | Bricks                                      |             | “ “ “                                                                                                 |
| (vii)           | Bitumen                                     |             | “ “ “                                                                                                 |
| (viii)          |                                             |             |                                                                                                       |
|                 | Total                                       | 1.000       |                                                                                                       |

**Notes:**

- Indices for “(ii)” to “(vii)” are taken from the Government of Pakistan Federal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 15 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the billing period.

- 2) Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.
- 3) Fixed portion shown here is for typical road project, procuring agency to determine the weight age of Fixed Portion considering only those cost elements having cost impact of seven (7) percent or more on his specific project.

**B When Escalation is allowed on the 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)<br>Federal Bureau of Statistics<br>(FBS) Monthly Statistical<br>Bulletin of District “ |
| (ii)         | Reinforcing Steel        |            | “ “ “                                                                                                               |
| (iii)        | Bricks                   |            | “ “ “                                                                                                               |
| (iv)         | Bitumen                  |            | “ “ “                                                                                                               |
| (v)          | Wood (Composite<br>item) |            | “ “ “                                                                                                               |
|              | Total five items.        |            |                                                                                                                     |



## **Appendix-D to Bid**

### **BILL OF QUANTITIES**

#### **A. Preamble**

1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract (in case of item not mentioned in Bill of Quantities).
3. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the contract include all costs of contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the contract. Furthermore, all duties, taxes and other levies payable by the contractor under the contract, or for any other cause, as on the date 14 days prior to deadline for submission of Bids in case of ICB/NCB respectively, shall be included in the rates and prices and the total bid price submitted by the bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities and shall not be paid separately.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be

distributed among the rates and prices entered for the related items of the works.

6. General directions and description of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the bidding documents shall be made before entering prices against each item in the priced Bill of Quantities.
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with sub-clause 13.5 of Part I, General Conditions of Contract.
8. Bidders shall price the bill of quantities in Pakistani rupees only.

## **Appendix-D to Bid**

**Appendix-D to Bid is attached on last Pages of Documents**

**PROPOSED CONSTRUCTION SCHEDULE**

Pursuant to Sub-Clause 8.2 of the General Conditions of Contract, the works shall be completed on or before the date stated in Appendix-A to Bid. The bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the works and parts of the works may meet procuring agency's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence (Attach sheets as required for the specified form of Construction Schedule):

| <b><u>Description</u></b> | <b><u>Time for Completion</u></b> |
|---------------------------|-----------------------------------|
| 1) Whole works            | 730 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.

LIST OF MAJOR EQUIPMENT

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

**CONSTRUCTION CAMP AND HOUSING FACILITIES**

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

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

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

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



**LIST OF SUBCONTRACTORS**

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

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

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

## Appendix-J to Bid

### ESTIMATED PROGRESS PAYMENTS

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

| Quarter/ Year/ Period   | Amounts<br><br>(in thousands) |
|-------------------------|-------------------------------|
| 1                       | 2                             |
| 1st Quarter             |                               |
| 2 <sup>nd</sup> Quarter |                               |
| 3 <sup>rd</sup> Quarter |                               |
| 4 <sup>th</sup> Quarter |                               |
| 5 <sup>th</sup> Quarter |                               |
| 6 <sup>th</sup> Quarter |                               |
| 7 <sup>th</sup> Quarter |                               |
| 8 <sup>th</sup> Quarter |                               |
| 9 <sup>th</sup> Quarter |                               |
| <b>Bid Price</b>        |                               |

**Appendix-K to Bid**

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

(To be filled in by the bidder)

**(INTEGRITY PACT)**

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

(FOR CONTRACTS WORTH RS. 10.00 MILLION OR MORE)

Contract No: ..... Dated: .....

Contract Value.....

Contract Title .....

..... [name of Contractor] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by 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 kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from, 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 times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from 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

Panel Sum of Security Rupees \_\_\_\_\_ (Rs) \_\_\_\_\_

Bid Reference Number \_\_\_\_\_

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 Ninety (90) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said procuring agency for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the procuring agency, the said sum upon first written demand of the procuring agency (without cavil or argument) and without requiring the procuring agency to prove or to show grounds or reasons for such demand,

notice of which shall be sent by the procuring agency by registered post duly addressed to the Surety at its address given above.

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

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

SURETY (Bank)



WITNESS:

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

\_\_\_\_\_

Corporate Secretary (Seal)

\_\_\_\_\_

2.

\_\_\_\_\_

Name, Title & Address

Signature \_\_\_\_\_

Name \_\_\_\_\_

Title \_\_\_\_\_

Corporate Guarantor (Seal)

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

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

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

Expiry date \_\_\_\_\_

[Letter by the Guarantor to the Procuring Agency]

Name of Guarantor (Bank) with address: \_\_\_\_\_

(Scheduled Bank in Pakistan) Name of

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

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

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

Dated \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the bidding documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the \_\_\_\_\_ (hereinafter called the

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

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has

accepted the procuring agency's above said Letter of Acceptance for

\_\_\_\_\_ (Name of Contract) for the

\_\_\_\_\_ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the procuring

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

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

We, (the Guarantor), waiving all objections and 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. \_\_\_\_\_

\_\_\_\_\_

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

Name \_\_\_\_\_

Title \_\_\_\_\_

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

\_\_\_\_\_

Name, Title & Address

Signature

\_\_\_\_\_

Corporate Guarantor (Seal)

## FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the

\_\_\_\_\_ day of \_\_\_\_\_ month 20\_\_ between

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

hereafter called the “Procuring Agency”) of the one part and

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

(hereafter called the “Contractor”) of the other part.

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

NOW this Agreement 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.
5. The Contractor shall be bound to execute the work at site strictly in accordance with the actual site conditions and requirements. During execution of the work, if any diversion, alteration, or modification is required due to site conditions, the Contractor shall carry out the same at site as directed by the Engineer-in-Charge, without any undue delay.

IN WITNESS WHERE OF the parties here to 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. \_\_\_\_\_ Dated: \_\_\_\_\_

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 request of the Contractor and in consideration of  
the **procuring agency** agreeing to make the above advance to the Contractor, has agreed to  
furnish the said Guarantee.

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

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

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

(Date)

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

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

#### GUARANTOR

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

#### WITNESS

1.

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

2.

(Name Title & Address)

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



## INDENTURE BOND 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 the ..... day 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).<sup>1</sup>

AND WHEREAS the contractor has applied to the .....

.....for an advance to him 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

On ..... and 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 Rupees.....

(Rs. ....) on or before 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 the 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 quality 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) That 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 Contractor's Bill for such payment by deducting there from in the value of the said materials (when 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 the rates at which the amount of the advances made under these presents were calculated.
- (7) That 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 of 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.....

(Rs. .... ) and any further sum

or sums which may be advanced as aforesaid and all 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

1<sup>st</sup> witness

SEAL

2<sup>nd</sup> 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 “model” General Conditions of Contract have evolved. The one used in these Standard Bidding Documents was prepared by the International Federation of Consulting Engineers (Federation 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.\*

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

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

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](mailto: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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CONSULTING ENGINEERS INTERNATIONALE  
VEREINIGUNG BERATENDER INGENIEURE  
FEDERACION INTERNACIONAL DE INGENIEROS  
CONSULTORES





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## GENERAL CONDITIONS

### GENERAL OVISIONS 1.1

#### Definitions

In the Conditions of Contract (“these Conditions”), which include Particular Conditions, 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, the Letter of Acceptance, the 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 agreement referred to in Sub-Clause 1.6 [Contract Agreement].

1.1.1.3 “Letter of Acceptance” means the letter of formal acceptance, signed by 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 “Letter of Acceptance” means the 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” means the document entitled letter of tender or letter 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 entitled specification, as included in 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, as included in the Contract, 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 schedules, completed by the 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 all other documents which the Contractor submitted with the Letter of Tender, as included in the Contract.

1.1.1.9 “Bill of Quantities”, “Daywork Schedule” and “Schedule of Payment Currencies” mean the documents so named (if any) which are comprised in the Schedules.



1.1.1.10 “Contract Data” means the pages completed by the Employer entitled 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, as the context requires.

1.1.2.2 “Employer” means the person named as employer in the Contract Data and the legal successors in title to this person.

1.1.2.3 “Contractor” means the person(s) named as contractor in the Letter of Tender accepted by the Employer and the legal successors in title to this person(s).

1.1.2.4 “Engineer” means the person appointed by the Employer to act as the 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 named by the 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, the assistants referred to in 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 Representative and all personnel whom the Contractor utilises 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 named in the Contract as a 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 three persons appointed under Sub-Clause 20.2 [ Appointment 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 Federation International des Ingénieurs -Conseils, the international federation of consulting engineers.

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

1.1.2.12 “Borrower” means the person (if any) named as the borrower in the Contract Data.

### 1.1.3 Dates, Tests, Periods and Completion

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

1.1.3.2 “Commencement Date” means the date notified under Sub-Clause 8.1 [ Commencement of Works ].

1.1.3.3 “Time for Completion” means the time for completing the Works or a Section (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 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 issued under Clause 10 [ Employer’s Taking Over ].

1.1.3.6 “Tests after Completion” means the tests (if any) which are specified in 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 notifying defects in 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

1.1.3.9 “day” means a calendar day and “year” means 365 days.

11.9 [ Performance Certificate ].

### 1.1.4 Money and Payments

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

1.1.4.2 “Contract Price” means the price defined in Sub-Clause 14.1 [ The Contract Price

], and includes adjustments in accordance with the Contract.

1.1.4.3 “Cost” means all expenditure reasonably incurred (or to be 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 payment certificate issued under Sub-Clause 14.13 [ Issue of Final Payment Certificate ].

1.1.4.5 “Final Statement” means the statement defined in Sub-Clause 14.11 [ Application for Final Payment Certificate ].

1.1.4.6 “Foreign Currency” means a currency in which part (or all) of the Contract Price is payable, but not the Local Currency

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

1.1.4.10 “Provisional Sum” means a sum (if any) which is specified in the Contract 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 accumulated retention moneys which the Employer retains under Sub-Clause 14.3 [ Application for Interim Payment Certificates] and pays under Sub-Clause

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

14.9 [ Payment of Retention Money].

#### 1.1.5 Works and Goods

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

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

1.1.5.3 “Materials” means things of all kinds (other than Plant) intended to form or 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 permanent works to be executed by the Contractor under the Contract.

1.1.5.5 “Plant” means the apparatus, machinery and vehicles intended to form or forming part of the Permanent Works, including vehicles purchased for the Employer 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 Data as a Section (if any).

1.1.5.7 “Temporary Works” means all temporary works of every kind (other than Contractor’s Equipment) required on Site for the execution and completion of the Permanent Works and the remedying of any defects.

1.1.5.8 “Works” mean the Permanent Works and the Temporary Works, or either of them as appropriate.

#### 1.1.6 Other Definitions

1.1.6.1 “Contractor’s Documents” means the calculations, 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” means the country in which the Site (or most of it) is located, where the Permanent Works are to be executed.

1.1.6.3 “Employer’s Equipment” means the apparatus, machinery and vehicles (if 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 19 [ Force Majeure ].

1.1.6.5 “Laws” means all national (or state) legislation, statutes, ordinances and other laws, and regulations and by-laws of any legally constituted public authority.

1.1.6.6 “Performance Security” means the security (or securities, if any) under Sub-Clause 4.2 [ Performance Security ].

1.1.6.7 “Site” means the places where the 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 foreseeable by an experienced contractor by the Base Date.

1.1.6.9 “Variation” means any change to the Works, which is instructed or 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”, “agreed” or “agreement” require the agreement to be record in writing;
- (d) “written” or “in writing” means hand-written, type-written, printed or electronically made, and resulting in a permanent record; and
- (e) the word “tender” is synonymous with “bid”, and “tenderer” with “bidder” and the words “tender documents” with “bidding documents”.

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

In these Conditions, provisions including the expression “Cost plus profit” require 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 address for the recipient’s communications 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.

## 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) (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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#### APPENDIX. General Conditions of Dispute Board Agreement

#### Annex PROCEDURAL RULES



## **PART II - SPECIAL /PARTICULAR CONDITIONS OF CONTRACT**

### **1.1 Definitions**

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

“Bid” is synonymous with “Tender”.

“Bidding” is synonymous with “contract”.

*The following paragraph is added:*

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

1.12.2 “Employer” is synonymous with “Procuring Agency”

1.1.2.9 “DB” is synonymous with “Committee”.

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

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

### **1.15 Inspections and Audit by the Bank**

Deleted

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

### **3.1 Engineer’s Duties and Authority.**

*The following paragraph is added after duties:*

Procuring agency shall ensure that the Engineer’s Representative/Staff is a 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 authorised representative and his other professional engineers working at site shall register themselves with the Pakistan Engineering Council.

#### **6.10 Records of Contractor's Personnel and Equipment**

*The following paragraph is added:*

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

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

#### **7.9 Use of Pakistani Materials and Services**

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

#### **8.1 Commencement of Works**

The last para is deleted and substituted with the following:

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

##### **8.11 Prolonged Suspension Replace**

84 days by 120 days.

## **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 the word “Variation”, the word “in writing” is added.

### **13.3 Variation procedure**

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

### **13.8 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

The Contract Price Sub-para (d) is deleted.

## **Advance Payment**

*The Text is deleted and replaced with following:*

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

#### **Mobilization Advance/Advance Payment**

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

#### **14.5 Plants and Materials intended for Works**

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

- (I) The Contractor shall be entitled to receive from the procuring agency Secured Advance against an INDENTURE BOND in Public Works Account Form No.31 (Fin. R. Form No. 2) acceptable to the procuring agency of such sum as the Engineer may consider proper in respect of non-perishable materials brought at the site but not yet incorporated in the Permanent Works provided that:
  - (i) The materials are in accordance with the specifications for the permanent works;
  - (ii) Such materials have been delivered to the site and are properly stored and protected against loss or damage or deterioration to the satisfaction and verification of the Engineer/Assistant Engineer but at the risk and cost of the Contractor;

- (iii) The Contractor's records of the requirements, orders, receipts and use of materials are kept in a form approved by the Engineer, and such records shall be available for inspection by the Engineer;
- (iv) The Contractor shall submit with his monthly statement the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of valuation of materials and providing evidence of ownership and payment therefore;
- (v) Ownership of such materials shall be deemed to vest in the procuring agency and these materials shall not be removed from the site or otherwise disposed of without written permission of the procuring agency;
- (vi) The sum payable for such materials on site shall not exceed 75 % of the (i) landed cost of imported materials, or (ii) ex-factory / ex-warehouse price of locally manufactured or produced materials, or (iii) market price of stands other materials;
- (vii) Secured Advance shall not be allowed unless and until the previous advance, if any, is fully recovered;
- (viii) Detailed account of advances must be kept in part II of running account bill or a separate statement; and
- (ix) Secured Advance may be permitted only against materials/quantities anticipated to be consumed / utilized on the work within a period of 3 months from the date of issue of secured advance and in no case for full quantities of materials for the entire work/contract.

**(II) Recovery of Secured Advance:**

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

**14.8 Delayed Payment**

*Second Para is replaced with following text:*

In the event of the failure of the Procuring Agency to make the payment within the time stated, the procuring agency shall pay to the contractor in

case of **ICB contracts only**, the compensation at rate of KIBOR+2% per annum in local currency and Libor+1% for foreign currency, upon all sums to be paid from the date of which the same would have been paid.

## **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.

### **Corrupt and fraudulent Practices.**

The following text is to be added as 3<sup>rd</sup> paragraph:

Successful Contractor has to provide Integrity Pact (for contracts worth Rs.10.0 million and above).

If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the procuring agency shall be entitled to:

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

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

#### **16.4 Payment on Termination**

Sub-paragraph (c) is deleted.

#### **17.3 Employer's/ Procuring Agency's Risks**

Sub-Clause 17.3 (h) is deleted.

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

#### **18.1 General Requirements for Insurance**

The contractor shall be obliged to place all insurances relating to the contract (including, 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.

#### **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....., in Sindh Province.

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

*Bank and donor's programme except the place of arbitration shall be....., in Sindh 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.*



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## **SPECIFICATIONS**

## **TECHNICAL SPECIFICATIONS**

### **GENERAL**

#### **Mobilization for Construction of the Works**

The Contractor shall mobilize all resources as required for construction of Works according to Contract Provisions. The major items of mobilization are listed and described hereof are for illustration. The Contractor shall make his own assessment for provision and maintenance of mobilization and demobilization requirements and shall ensure their availability to the satisfaction of the Engineer.

- (a) Mobilization of Contractor's plant to the Site
- (b) Mobilization of Contractor's personnel and labor at the Site
- (c) Provision of Camps
- (d) Provision of such administrative and field offices, as the Contractor considers necessary for his organization.
- (e) Provision of workshops, warehouses, sheds, and storage yards required by the Contractor for the proper and sufficient execution of the Works.
- (f) Arrangements for supply of water for use in construction, including installation of the necessary wells, pumps, pipes, storage tanks, and suitable arrangements for the delivery of water at the various points of requirement.
- (g) Maintenance of Temporary Site Facilities provided by the Contractor for performance in connection with the Contract.
- (h) Demobilization on completion of Contract.  
The Contractor shall submit in advance for approval of Engineer his plans for mobilization and demobilization giving full details of resources, manpower and equipment involved.

**Shipment of Contractor's Plant and Equipment to Site**

The Contractor shall be responsible for the shipment of plant, equipment and machinery required for the execution of the Work to the specified Site within the specified time.

**Provision of Camps**

The Contractor shall provide such camps as are required for the proper and efficient progress of the work to house his own employees and to provide such Site office facilities for use of the Engineer and Employer as specified elsewhere in the Specifications. On the completion of the Contract, the Contractor shall remove the said camps and facilities and reinstate the camp area to the satisfaction of Engineer.

The Contractor's camps shall comply with the rules of the Pakistan Labour Camp Rules, 1960, issued by the Pakistan Health, Welfare and local Government Department and the requirements therein set forth. The said rules are available with the Employer's Representative.

**Provision of Contractor's Office**

The Contractor shall provide such administrative and field offices as the Contractor considers necessary for his organization.

**Latrines**

The Contractor shall provide throughout the period of construction of the Works and shall maintain and cleanse sufficient latrines for the use by his employees. He shall ensure that his employees do not foul the Site but make use of the latrines.

**Provision of Contractor's Workshops, Warehouses etc.**

The Contractor shall provide workshops, warehouses, shades, and storage yards required by the Contractor for the proper and sufficient execution of the Works.

The Contractor shall provide, maintain, operate such temporary buildings as his staff quarters, stores, workshops, labour camps and other temporary buildings necessary for the execution of the Works at the place the Employer will provide. The Contractor shall submit site plans and general particulars of the prescribed buildings to the Engineer for his approval within the prescribed period. The construction of the buildings shall not be started until his proposals have been finally approved by the Engineer.

The Contractor's staff quarters and labour camps shall be provided with all necessary services for drainage, lighting, roads, paths, parking places, fencing, sanitation, cook-houses, fire prevention and fire fighting equipment.

The Contractor shall also provide an adequate water supply system to the Contractor's office, his staff quarters, labour camps, workshops and other places of the Work on the Site. The Contractor shall make his own arrangements for electricity supply to the Contractor's office, his quarters, labour camp, workshop and stores.

**Provision of Power Supply to Admin. Facilities, Workshops, Camps etc.**

The Contractor shall make his own arrangements for the supply of electric power for the purpose of the Contract.

**Supply of Water for Construction**

The Contractor will be required to furnish water for all aspects of construction

**All other items of Mobilization not specifically stated**

Provision of such roads and others works as may be deemed necessary by the Contractor for the proper execution of the works.

**Maintenance of Site Facilities of Contractor**

The Contractor shall arrange service for all of his mobilization works, fixtures and equipment including provision of all water, electricity and sewerage and refuse disposal services, until the end of the maintenance Period. The Contractor shall replenish consumable items as and when required. At the end of Maintenance Period, the contractor shall remove his camp and facilities and reinstate the camp area to the satisfaction of Engineer.

## **TECHNICAL SPECIFICATIONS**

### **THE SITE**

#### **General**

The Site shall be that area as defined in Clause 1.0 of the Special Provisions. Right of way for access to the Works from existing roads shall be provided by the Contractor through his own arrangements. The Contractor shall make his own investigations of the condition of available public or private roads and of clearance, restrictions, bridge load limits and other limitation that affect or may affect transportation and ingress and egress at the job sites, and shall bear all responsibilities in that respect.

#### **Use of Land for Construction Facilities**

Land controlled by the Employer will be made available for field offices, construction plant, storage yards, and other facilities required for construction operations under the Contract.

The location, construction, maintenance and operation, of the Contractor's construction facilities on government land shall be subject to the approval of the Engineer.

#### **Access to the Works**

Before the commencement of any part of the Works the Contractor shall make temporary access tracks including all necessary temporary diversions and bridge works to the part of the Site concerned, both for the Contractor's own access and for the maintenance of public access, all to the approval of the Engineer. The Contractor shall maintain such access tracks in a condition suitable for the safe and easy passage of plant, vehicles, and pedestrians until these tracks are no longer required for the purposes of the Contract. Other contractors employed upon the Project may use such access. The Contractor shall pay particular attention to the maintenance of existing irrigation supplies and drainage drains as specified in Clause 2.05 hereof.

The Contractor shall make a record to be agreed by the Engineer of the condition of the surfaces of any private lands or any public cultivated or maintained lands over which access for the Site lies before use for access and he shall keep such surfaces in a reasonable state of cleanliness and repair during the execution of the Works. On the termination of the Contractor's use of such access he shall restore the surfaces to a condition at least equal to that obtaining before his first entry on them.

The Employer will provide assistance where the Contractor encounters any difficulties in establishing a right of way to the works from existing roads.

#### **Roadways Crossings**

Where drains cross roads or tracks, these shall be kept open or temporary diversion roads must be constructed. Construction of temporary diversions and reinstatement of roads and tracks shall be in accordance with the provisions of the Contract.

#### **Damage to Canal and Drain Banks and Operating Roads**

The Contractor shall limit his loads, speeds, and hauling operations over the existing roads so as to minimize damage to other existing facilities. Ruts and scars resulting from the Contractor's operations shall be removed and any damage to drain and canal embankments shall be promptly corrected to the satisfaction of the Engineer.

## **Site Operations**

### **(i) General**

The Site may be located through and adjacent to tracts of improved property. Where the drain or access to the Works are adjacent to, cross, or disturb improvements such as gardens, trees, irrigation and drainage facilities, crops and cultivated fields, the Contractor shall conduct his operations so as to minimize disturbance to or destruction of improvements, crops or property and to interfere as little as possible with the operations of cultivators.

### **(ii) Reservation Widths**

The land lying wholly within the reservation widths shall be construed to be the area available to the Contractor for the construction of the individual Works indicated on the same Drawings. The Contractor shall not have a right of access to such land ahead of undertaking construction in that part of the Works but permission to use the land for access may be granted by the Employer through the Engineer.

The reservation widths applicable to each section of the Works will be as indicated on the drawings. The widths will vary according to the drain sizes and levels.

The Contractor shall not borrow nor place spoil outside the reservation width without the Engineer's written permission.

### **(iii) Restoration of Disturbed Lands within Right of Way**

The Contractor shall be responsible for restoring the surface of the lands disturbed by the Work within the right of way as close as possible to the original condition as found, to the satisfaction of the Engineer. Upon the Contractor's application the Engineer will agree a schedule of conditions before the Contractor's entry.

Except as otherwise provided for the disposal of excavated materials, and for the settlement of crop damage claims, the cost of all work described in this section, shall be included in the relevant section of the Schedule of Prices.

## **Utilities, Transmission and Telephone Lines**

The locations of utility, transmission and telephone lines are shown on the layout drawings insofar as the information is available or as field surveys have been completed at time of bidding. The Contractor shall exercise due care during construction to ensure that no damage is done to such lines. The Employer is responsible for providing the reference data required for buried utility locations. The Employer will indemnify the Contractor against all claims for damages and the costs of repairs to the utility, transmission and telephone lines arising out of the Contractor's operations, excluding any claims arising from willful damage or negligence by the Contractor.

## **Grazing Livestock**

The Contractor shall provide reasonable care by hiring watchmen to ensure that livestock are not allowed within the construction right of way during operations but he will not be responsible under this Contract for any damages, injury or death of livestock resulting from the construction operations.

Fences and walls which must be crossed by drain lines and which were in good condition before hand shall be repaired by the Contractor, if asked to do so by the Engineer. If there are animals in the field the fences must be reconnected immediately after crossing with the drain line.

## **Safety**

High standards of safety for men and machines must be observed at all times. Contractors shall comply with existing Pakistani laws.

Men working in trenches shall be protected from cave-ins by sloping the trench sides or by proper trench shoring; men should not work alone in trenches.

Moving parts of the machines shall be protected by proper guards. Casual observers shall not be permitted close to excavating operations.

### **Clearance of Site**

The Contractor shall clear the Site to the extent required by the Engineer for checking setting-out. The Contractor shall also clear the parts of the Site to be occupied by the Works of all vegetation and artificial obstructions.

The Contractor shall fill and make good with appropriate material those cavities and losses of soil which result from clearing for setting-out as specified in this Clause. The material arising from such clearance shall be removed from the Site and disposed of by the Contractor.

The Contractor shall make periodic clearance of vegetation as is necessary to preserve the amenity and appearance of the neighborhood of the Site.

### **Condition of Site**

The Contractor shall maintain the Site in a neat, tidy and healthy condition and free from accumulation of waste or rubbish.

### **Disposal of Waste Materials**

#### **(i) General**

Waste materials including, but not restricted to, refuse, garbage, sanitary wastes, industrial wastes, and oil and other petroleum products shall be disposed of by the Contractor. Disposal of waste materials shall be by burying, where burial of such materials is approved by the Engineer; by burning where burning of such materials is permitted in accordance with local laws; or by removal from the construction area.

#### **(ii) Disposal of Material by Burning**

All materials to be burned shall be piled in designated burning areas in such a manner as will cause the least fire hazards. Burning shall be thorough and complete and all charred pieces remaining after burning, except for scattered small pieces, shall be removed from the construction area and disposed of. The Contractor shall, at all times, take special precautions to prevent fire from spreading beyond the piles being burned and shall be liable for any damage caused by his burning operations.

#### **(iii) Disposal of Material by Removal**

Disposal of material by removal from the construction area shall be accomplished prior to the completion of any section of the Works. All materials removed except trees, shall become the property of the Contractor. Materials to be disposed of by dumping shall be hauled to an approved dump. It shall be the responsibility of the Contractor to make any necessary arrangements.

#### **(iv) Disposal of Trees**

Trees and bushes cleared from the construction area shall be placed at the edge of the construction area or right of way. The Employer shall arrange the use and disposal of the wood. Where large trees are to be removed then the Engineer will determine how the trees are to be cut and removed and at the same time try not to impede the progress of the Works. All trees, tree roots and bushes not required by the Employer will be burned or removed from the Construction area at the Contractor's expense.



## **Prevention of Pollution**

### **(i) Landscape Preservation**

The Contractor shall exercise care to preserve the natural landscape and shall conduct his construction operations so as to prevent any unnecessary destruction, scarring, or defacing of the natural surroundings in the vicinity of the work.

### **(ii) Prevention of Water Pollution**

The Contractor shall comply with applicable regulations concerning the control and abatement of water pollution.

The Contractor's construction activities shall be performed by methods that will prevent entrance, or accidental spillage of solid matter, contaminants, debris, and other objectionable pollutants and wastes into flowing streams, flowing or dry watercourses, lakes and underground water sources; sanitary wastes shall be disposed of on land by burial at approved sites or by other approved methods.

## **Preservation of Historical and Archeological Findings and Graveyards**

The Contractor agrees that should he or any of his employees and subcontractors in the performance of the Contract discover evidence of possible scientific, pre-historical, historical, or archeological materials, he will notify the Engineer immediately in writing giving the location and nature of the findings. Where appropriate by reason of a discovery, the Engineer may order delays in the time of performance and/or changes in the Work.

The Contractor shall not trespass, excavate in or otherwise disturb graveyards whether shown on Drawings or not. In the case of unidentified graveyards or burial sites, the Contractor shall notify the Engineer in writing and the Engineer shall make such design changes as required.

## **TECHNICAL SPECIFICATIONS**

### **MATERIALS AND WORKMANSHIP**

#### **Sampling and Testing**

The Contractor shall keep records of all tests he conducts in compliance with Specifications, or as required by the Engineer and shall submit copies of the results of such tests to the Engineer when required.

Tests required by the Engineer may be carried out at the laboratory nominated by the Engineer at the Contractor's expense.

Samples required for tests in the nominated laboratory shall be supplied and delivered by the Contractor in appropriate containers, suitably packed and labeled.

The Contractor shall provide for the approval of the Engineer samples of all construction materials and manufactured items required for the Works, if ordered. All samples rejected by the Engineer shall be removed from the Site. All approved items shall be stored on the Site by the Contractor for the duration of the Contract under conditions, which will prevent deterioration of the approved sample. Any materials or manufactured items subsequently delivered to the Site for incorporation in the Works shall be at least equal to the approved sample.

With regard to sampling, testing and the costs thereof, nothing in the foregoing shall be deemed to derogate from the responsibilities placed on the Contractor.

The Contractor shall, when required by the Engineer, provide suitable assistants for use in the supervision of the construction of the Works and these assistants shall be available to help carry out sampling and testing of materials and workmanship. The Engineer will notify the Contractor of his requirements in this respect at least 1 day in advance. The Contractor shall provide the Engineer with a list of staff he proposes to use and details of their qualifications and experience. The Engineer may reject any or all of the nominated staff.

#### **Concrete Sampling and Testing**

The Contractor shall be responsible for providing samples of concrete and its constituent materials either for testing by himself or on behalf of the Engineer for testing at a nominated laboratory. Samples may also be taken by the Engineer for testing under the Contract at a nominated laboratory. Concrete test cubes, which shall be made in accordance with BS 1881 part 116/ASTM C-31 and C-39, shall be deemed to be sampled for the purpose of this Clause. All sampling of constituent materials shall be carried out in accordance with the provisions of the appropriate British / ASTM Standard, and all sampling of fresh and hardened concrete shall be carried out in accordance with the provisions of BS 1881/ASTM C-172 unless such provision is at variance with the Specifications. Details of all such samples shall be recorded by the Contractor and passed to the Engineer. The frequency with which such samples are to be delivered to the laboratory will be given by the Engineer in the form of a sampling plan. The Engineer will make available to the Contractor the results of each test carried out on the samples provided.

The tests, which the Contractor is required to undertake himself on behalf of the Engineer, are those to be carried out on fresh concrete at the place of final deposit, or elsewhere in the Site as directed by the Engineer. These tests comprise slump test to BS

1881, part 102/ASTM C-143. The frequency with which these tests are carried out shall be as directed by the Engineer in the form of a testing plan.

The Contractor shall also test aggregates for moisture content and so determine the water/ cement ratio of the fresh concrete. Determinations of water/cement ratio shall be carried out as required by the Engineer and the results and calculations submitted to him.

The Contractor shall until the Maintenance Period (or such earlier date as directed by the Engineer) supply, service and operate the necessary apparatus for sampling concrete and its constituent materials in accordance with the requirements and for slump tests on fresh concrete as described above.

Sampling of fresh concrete for concrete test cubes shall be carried out whenever possible, at the place of deposition in the Works. From each such sample three (3) such cubes shall be made. Each cube shall be marked indelibly for identification when it is in the mould. After retention at the place where they are made for 24 hours, the cubes shall be delivered to the nominated laboratory for removal from their moulds, curing and testing. Moulds shall be returned to the Contractor for reuse. Sampling fresh concrete for such cubes shall be carried out by the Contractor in accordance with a sampling plan drawn up by the Engineer in accordance with the following principles.

The frequency of sampling for each class of concrete from each batching centre in each active day to be at a rate of:

- (a) One sample from one batch of every 10 batches; or
- (b) One sample per 350 cubic feet of concrete; or
- (c) One sample;

Whichever involves the greatest number of samples.

When more than 700 cubic feet from one batching centre is placed in one location in one day, the rate of sampling may be decreased, with the approval of the Engineer, to one sample from one batch of every 20 batches or one sample per 700 cubic feet of concrete, whichever involves the greatest number of samples. The actual rate of sampling may vary to the approval of the Engineer according to the random selection of batches to be sampled and shall be increased when ordered by the Engineer in appropriate circumstances. In addition to his other duties in connection with the sampling and testing of concrete, the Contractor shall provide the instruments for, and record the temperatures of the concrete and concrete materials, as required by the Engineer and copies of such records shall be supplied to the Engineer.

### **Tests and Testing Equipment**

The following tests will be carried out in the Engineer's nominated laboratory as required under the Contract or ordered by the Engineer. The Contractor shall provide samples for the tests. Equipment to carry out these tests shall be repaired as necessary by the Contractor, or provided to the Engineer's nominated laboratory by the Contractor, as required and ordered by the Engineer. The Contractor shall service the equipment as required and as ordered by the Engineer for the duration of the Contract.

- (a) Soil and earthwork testing  
(the number in brackets refer to the tests as specified in BS or ASTM standards)
  - (i) Determination of the moisture content:  
(BS 1377: Part 2: 1990: Clause 3);  
(ASTM: D 2216-80) (ASTM C 566)
  - (ii) Determination of Atterburg Limits:  
(BS 1377: Part 2: 1990: Clauses 4 and 5);  
(ASTM: D 423 - 66; ASTM: D424 - 59).
  - (iii) Determination of the Particle Size Distribution - (Wet/Dry Sieving as appropriate):  
(BS 1377: Part 2: 1990: Clause 9.2/9.3);  
(ASTM: D422 - 63), (ASTM C 136).
  - (iv) Standard Proctor Compaction Test:

- (BS 1377: Part 4: 1990: Clause 3);  
(ASTM D698 - 78: 2.49 kg rammer and 305 mm drop)  
(ASTM D 1557).
  - (v) Determination of the dry density of soil on site:  
Sand Replacement Method:  
(BS 1377: Part 9: 1990: Clause 2.1 or Clause 2.2);  
(ASTM D 1556 - 64), (ASTM D 1558). Core Cutter Method:  
(BS 1377: Part 9: 1990: Clause 2.4).
- (b) Concrete Testing  
(the number in brackets refer to the tests as specified in BS or ASTM standards)
  - (i) Aggregate moisture tests for determination of water cement ratio:  
(ASTM: C 566 - 78).
  - (ii) Slump test: (BS 1881: Part 102); (ASTM: C 143 - 78).
  - (iii) Compacting factor test: (BS 1881: Part 103).
  - (iv) Making and curing test cubes/cylinders: (BS 1881: Parts 108 and 111); (ASTM: C192-81; C31-69) and (ASTM C 617).
  - (v) Compression testing of test cubes/cylinders  
(BS 1881: Parts 115 and 116);  
(ASTM: C39-81).
  - (vi) Obtaining and drilling of cores: (ASTM C 42).
- (c) Cement Testing  
(the number in brackets refer to the tests as specified in BS or ASTM standards)
  - (i) Compressive strength (mortar cubes): (BS 4550: Part 3: Section 3.4)  
(ASTM C 348 and C 349).
  - (ii) Effect of Organic Impurities in Fine Aggregate on Strength of Mortar:  
(ASTM: C87-69)  
(ASTM C 40).
- (d) Fine and Coarse aggregate Testing  
(the number in brackets refer to the tests as specified in BS or ASTM standards)
  - (i) Flakiness index: (BS 812: Section 105.1).
  - (ii) Elongation index: (BS 812: Part 1: Para. 7.4).
  - (iii) Particle size and grading: (BS 812: Part 103); (ASTM: C 136 - 82).
  - (iv) Silt content by field settling test: (BS 812: Part 1: Para. 7.2);  
(ASTM: C117-80).
  - (v) Aggregate impact value: (BS 812: Part 3: Para. 6).
  - (vi) Aggregate crushing value: (BS 812: Part 3: Para. 7).  
(ASTM: C -131).
  - (vii) 10% fines value: (BS 812: Part 3: Para. 8).
  - (viii) Soluble sulphates: 0.4% maximum of each aggregate proposed
  - (ix) Chloride content: (BS 812: Part 4).
- (e) Water Testing
  - (i) Total dissolved solids and electrical conductivity  
(BS 3148-80)  
(ASTM D 586)  
(Earth Manual E8).
  - (ii) Sulphate content:  
(BS 1377: Part 3: 1990: Section 5).
  - (iii) Chloride content:  
(BS 812, Part 4).

## **TECHNICAL SPECIFICATIONS**

### **EARTHWORKS**

#### **Jungle Clearance**

Jungle is defined as any weeds, reeds, long grass, pann grass, bushes, hedges, trees, undergrowth or the like which may affect the visibility and access along the berms, inspection and non inspection paths. Jungle wherever occurs along the length of drain will be cleared only where ordered by the Engineer.

The trees shall not be felled without prior written authorization of the Engineer. The Work includes the clearance and disposal of jungle from the berms, inspection and non-inspection paths and side slopes. The contractor shall generally remove the same, which is visible above the ground including roots.

#### **Scarifying Ground Surface**

Where fill in embankments is to be compacted, the surface of the ground under the embankment shall be scarified to a depth of 6 inches so as to provide a satisfactory bond between ground and fill. The moisture content of the scarified surface shall be carefully controlled either by natural drying or by wetting with a fine spray. If for any reason, progress in compacting the fill is interrupted for a significant time, the surface of the fill material shall be scarified before compaction continues.

#### **Earthworks Specification in Sub-divisions**

The Contractor shall make excavations in any material and any conditions for the several parts of the Works and shall dispose of the excavated materials all as specified, shown on the Drawings, or ordered by the Engineer. The earthworks specification is divided into three sub-divisions, as follows:

- A. General
- B. Channels and Embankment
- C. Structures.

#### **General**

The Contractor shall give the Engineer at least seven days written notice of his intention to commence earthworks on any part of the Site. The earthworks shall not be commenced until the Contractor has received written approval from the Engineer.

#### **Earthworks to Lines and Levels**

The whole of the earthworks for the several parts of the Works shall be carried out to the dimensions and the levels shown on the Drawings, or to such other dimensions and levels as may be ordered by the Engineer. Dimensions, which are based on, or related to, ground levels or chainages, shall be referred to the Engineer before commencing earthworks at any locations

For the purpose of the Specification the term ground level shall refer to the original profile before the start of earthwork operations.

#### **Extent of Excavations**

The extent of excavations shall be the minimum practicable in the opinion of the Engineer for the construction of the Works.

The excavation in the drain shall at any one time be limited to lengths previously approved by the Engineer in writing. Except with the written approval of the Engineer, work on each approved length shall be completed to the satisfaction of the Engineer before work on any new length is commenced. There shall be no classification of earthwork for excavation of drains, structures and for any other purpose.

### **Excavation of Unsound Material**

- (1) If any unsound material occurs in the bed or sides of a drains, in foundations, or below embankments, the Contractor shall remove and dispose of it to the satisfaction of the Engineer. Unsound material shall include roots, organic matter, mud, gypsum, surface layers of boulders, cobbles and gravel, and deleterious substances. Unless otherwise specified or ordered by the Engineer, the Contractor shall fill the voids so formed, with concrete Class B for structures, with compacted fill for drains and embankments, and with approved granular material for embankment pitching.

If the Contractor encounters any material, which in his opinion may be unsound, he shall immediately inform the Engineer who will instruct the Contractor in writing as to whether or not the material is to be treated as unsound.

- (2) The above notwithstanding, where the Drawings show the placing of earthworks on vegetation existing prior to commencement of earthwork operations at any location, such vegetation shall not be considered to be unsound material except to the extent that the vegetation, or its roots etc, is deemed by the Engineer to be unsuitable.
- (3) The provisions of Sub-Clause (1) notwithstanding, where the Drawings show excavation below the line of future embankments in order to remove roots of reeds, etc. the material so excavated shall not be classed as unsound if comprising roots, organic matter or mud, but shall fall within the classification of general excavation.

### **Slips and Falls**

The Contractor shall exercise the greatest possible care and take all necessary precautions to prevent slips and falls of material from the sides of the excavation and embankments.

In the event of slips and falls occurring the Contractor shall make good all earthworks and associated works and execute any requisite modifications of the Works to the satisfaction of the Engineer.

### **Fill**

Fill means selected suitable material placed in embankment above original ground level. Selection shall, inter alia, be such as to exclude material of particle size exceeding 6 inches unless otherwise specified or approved by the Engineer. Notwithstanding other provisions of the specifications all suitable sandy, silty and clayey earth material will be accepted in the fill. Where the drain excavation at any section does not furnish sufficient suitable material for embankments, the material shall be taken from designated borrow areas as approved by the Engineer. Fill placed against a structure shall not contain particles exceeding 2 inches in size unless otherwise specified or approved.

### **Borrow Areas**

Where specified or ordered by the Engineer, fill material for incorporation in the Works shall be obtained from approved borrow areas after the completion of any tests to confirm the suitability of the material. On completion of excavation the Contractor shall, where applicable, trim, grade and leave the borrow area in a tidy condition and shall carry out any further earthworks necessary to prevent accumulation of water in the area, all to the satisfaction of the Engineer.

Borrow areas located in cultivable land shall be as shallow as is practicable in order that the land so used may be subsequently ploughed over and brought under cultivation. In such cases where land has been temporarily acquired, the Contractor shall remove top soil prior to excavation in the borrow area and shall replace it on completion of excavation and, following reinstatement, the maximum depth of excavation shall not exceed one foot.

The borrow areas shall not be continuous. For every 200 feet, a ten feet wide strip shall remain unexcavated, to avoid the formation of a continuous channel.

Material within the drain reservation width which is in excess of the requirements of the inspection path and non-inspection path shall be considered as borrow material, if so directed by the Engineer.

The Contractor shall make his own arrangements with the landowners for procurement of borrow material from their lands.

### **Approved Material for Compacted Fill and Backfill**

The material for compacted fill obtained from the excavation of drain and/ or borrow areas shall comply with the following requirements:

- (a) Sandy material with greater than 20% passing on a sieve nr. 200 sieve is unsuitable;
- (b) The borrow areas to the approval of the Engineer;
- (c) The borrow areas to be outside of the inspection path but, wherever possible, within the reservation width;
- (d) Material excavated from borrow areas more than 2 feet in depth or from areas near standing crops or with vegetation will generally not be approved.
- (e) Suitable material from drain excavation shall be dry, free of vegetation and comply with all requirements of fill specified hereof.

### **Compaction of Fill or Backfill**

Embankment and backfill designated on the Drawing as compacted shall be compacted to the line, grade and slopes shown on the Drawing or directed in writing by the Engineer.

The compacted embankment shall be constructed of the most suitable material for impermeability and stability as approved by the Engineer. The material to be compacted shall be deposited in horizontal layer 6 inches thick as compacted. The compaction shall be carried out by mechanical rollers, rammers, vibrators or other approved plant so as to produce a dry density not less than 85 percent of the maximum dry density for material placed above structural foundation level and not less than 100 % maximum dry density for material placed below structural foundation level or such other minimum dry density as may be specified or ordered by the Engineer.

The maximum dry density shall be determined in accordance with BS 1377 Test 12 / ASTM D-1557 (2.5 kg rammer).

The Contractor shall exercise careful control of the moisture content of the fill material prior to and during compaction such that it lies within a range of values established to the approval of the Engineer during the trials specified in Clause 4.12 herein and is suitable for the fill material and the method of compaction adopted.

### **Preliminary Trial for Compacted Fill**

At least one month before commencing compaction of the fill in the Works, the Contractor shall submit to the Engineer details of the method and constructional plant proposed to be used, and shall make trials on Site.

The Contractor shall make such tests of the materials before and after compaction as the Engineer considers necessary, both of the trials and of the Works, to ascertain to the Engineer's satisfaction that the degree of compaction specified is attained.

Any approval given by the Engineer to the Contractor's method of working will not relieve the Contractor of his responsibility to meet the requirements

### **Allowances for Settlement**

The Contractor shall make due allowance for the effects of consolidation, including the settlement of fill and compacted fill, such that the levels, widths and dimensions of the finished surfaces at the end of the Maintenance Period are in accordance with the Contract.

### **Drain Operation during Earthwork Operations**

There are planned closure periods for the irrigation system, which is only for one month, and so the Contractor should expect all earthworks operations to be undertaken whilst the drains are flowing.

### **Haul Routes**

The operations of the Contractor on haul routes shall be in accordance. The hauling of materials and other intra job hauling and transportation over public highways, roads and bridges shall be in compliance with local regulations. Where haul routes cross public highways or roads, the Contractor shall provide barricades, flagmen and other necessary precautions for safety. Where haul is necessary to take material from a borrow area to the site of an earthworks filling operation, the Contractor shall submit to the Engineer full details of the route and the distance, for his approval.

### **Drains and Embankments**

#### **Construction Methods**

Rehabilitation of Rehabilitation/Restoration of 4 Nos Structures of Darya Khan Branch drain & its allied Structures (ADP No. 1055) , of shall be carried out as outlined below or by a similar method subject to the approval of the Engineer. Full details of the Contractor's proposed method of working and earth moving plant shall be provided in accordance with the instruction for bidding. The Rehabilitation of Rehabilitation/Restoration of 4 Nos Structures of Darya Khan Branch drain & its allied Structures will be rehabilitated by excavation through mechanical means..

#### **Excavation / Silt Clearance and Disposal**

Excavation for drain shall be to the designed section as shown in the Drawings. The excavation in the drain bed and side slopes includes the striping of grass, up rooting bush stumps, weeds, reeds etc. The Contractor shall undertake excavation using the equipment and methods to the approval of the Engineer. The excavation shall be to the lines and levels specified in Clause 4.04 except that the Contractor is not required to replace material in the drain section of that had eroded, unless so ordered by the Engineer. In particular the bed width should be limited to that as shown on the Drawings.

Suitable material excavated from drain shall generally be placed alongside in fill to form maintenance berms, inspection paths and free board embankments as shown on the

Drawings. Excavated material containing stumps, roots, vegetable matter and other objectionable material that are otherwise unsuitable or not required for backfill, compacted fill for drain or in any other permanent construction required under these Specifications, shall be placed in the designated spoil banks as directed by



the Engineer. All spoil banks shall be leveled and sloped to drain and trimmed to reasonably regular line as directed in writing by the Engineer.

The Contractor shall prepare a plan of earthworks operation for each particular part of the Works to be constructed at any one time, detailing the location and programme of excavation in drains and structures and of placing the fill in embankments, etc. The Contractor shall submit his proposed plan of operation at least twenty-eight days before his intended date to commence earthworks on each particular part of the system for the Engineer's approval.

### **Removal and Disposal of Weeds**

Vegetation is defined as any weeds, reeds, long grasses, bushes, trees, etc. which may affect either the hydraulic flow in the surface drains. The removal of roots of vegetation from the bed of surface drains is considered essential as far as practical to minimize further propagation. However, the removal of roots from the side slopes of drains, berms, and inspection paths is generally discouraged, since roots may assist in maintaining stability of the sections. Removal of the vegetation from berms and inspection paths shall be carried out with the prior approval of Engineer.

In undertaking works for weed removal (with roots) from the drain bed, the Contractor shall use suitable methods (either mechanical or manual) to remove the roots of vegetation as far as practical by removal of whatever sediment may be required that surrounds the root area. In general, this may require 12 to 18 inches of sediment to be removed along with the roots for which no separate measurement or payment shall be made. The excavation of the roots in the bed of the drain shall be carried out in such a manner that no high points or obstructions remain which would impede the hydraulic flow of the drain. Material excavated in accordance with Clause 4.16 from the drain bed may be temporarily placed along the maintenance berm or the slopes of the inspection or non-inspection paths, in accordance with Clause 4.17.

In undertaking works for weed removal (without roots) from the drain bed, the Contractor shall generally only remove what is visible above the surface of the drain bed and not the roots. Weeds shall generally be cut back to a height of about 3 inches. There should be no significant removal of soil or sediment. Material excavated in accordance with Clause 4.16 from the drain may be temporarily placed along the maintenance berm or the slopes of the inspection or non-inspections paths in accordance with clause 4.17. The Contractor may leave the material in such areas, to allow it to dry, for a period of up to two weeks.

The Contractor shall dispose of the weeds present in the excavated material obtained from the drain bed as follows. No separate payment shall be made for the excavation and disposal of weeds, bushes, reeds etc. excavated from the drain bed.

- (a) Disposal of Material by Burning: all materials to be burned shall be piled in designated burning areas in such a manner as will cause the least fire hazards. Burning shall be thorough and complete and all charred pieces remaining after burning, except for scattered small pieces, shall be removed from the area and disposed of. The Contractor shall, at all times, take special precautions to prevent fire from spreading beyond the piles being burned and shall be liable for any damage caused by his burning operations.
- (b) Any material that may be considered as fill in accordance with Clause 4.08 and 4.10, to the satisfaction of the Engineer may be used within the Works for repairing erosion and cuts, or as embankment fill in, or placed on the inspection or non-inspection paths associated with the drain, following the procedures
- (c) Any remaining material may be placed on the outside of the inspection or non-inspection paths or any disposal area indicated on the drawings.

Notwithstanding the placing of any additional material on the inspection paths under this, the Contractor shall not be relieved of his responsibility to maintain such inspection paths in accordance with the requirements of the Contract.

### **Wet earth**

Soil shall be classified as wet when on being taken in a piece of cloth and pressed by hand wets the cloth.

The material obtained from excavation may be too wet for direct placement in fill and the Contractor shall stockpile the materials for drying and shall have to rework it before placing in the fill.

### **Rehandling of earth work**

The excavated earth movement from channel with haul more than 50 should be undertaken rehandling of earthwork for reuse as embankment fill or to dispose off as spoils up to 50 feet as specified in clause 4.17.

### **Embankment Fill**

Material for embankment fill shall be in accordance with Clauses 4.08 and 4.10. In placing embankment fill the Contractor shall spread the material approximately level layers of 9 inches loose thickness, by mechanical means including leveling, dressing and watering for compaction. Embankment fill shall be compacted by either with 12 ton sheep foot roller or vibrator of equivalent capacity so as to produce a dry density not less than 85 percent of the maximum dry density for material.

Embankments with bank top level above ground level, shall not exhibit any signs of incipient seepage after prolonged retention at the maximum level.

### **Carriage of material**

When the suitable material in accordance with Clause 4.10 is not available within the range of haulage distance, the borrow area shall be selected as per clause 4.09 within four miles of the site with the approval of Engineer. The material shall be carted by approved methods, or as directed by Engineer.

### **Dressing and Leveling of Earthwork**

Earthwork shall be in accordance with Clause 4.21, embankments which carry un-surfaced roads shall be aligned and graded on the top surface by use of a motorized grader so as to permit the safe and easy passage of a light vehicle at a speed of 25 miles / hour and shall be maintained in this condition to the end of the Maintenance period.

The side slopes of the embankments shall be trimmed and all large lumps broken up to the satisfactory of the Engineer.

### **Tolerances on Earthworks for Drains and Embankments**

Tolerances on levels and dimensions of drains and embankments will be permitted as stated below unless otherwise approved by the Engineer.

| <u>Description</u> | <u>Drains</u> | <u>Embankments</u> |
|--------------------|---------------|--------------------|
| Bed width          | + 6 inches    | Not applicable     |
| Bed level          | - 4 inches    | Not applicable     |
| Side slopes        | + 6 inches    | + 4 inches         |
| Bank Top Level     | Nil           | Nil                |

Centrelines                       $\pm 6$  inches                       $\pm 6$  inches  
All surfaces shall be finished off neatly and cleanly.

### **Transitions**

Except where otherwise shown, at all changes in cross section necessitated by design or any other reason, transitions shall be formed in the bed and side slopes of the drain such that the horizontal or vertical change in direction does not exceed a deviation of 1 in 10.

### **Gaps in Embankments**

The Contractor shall create no gaps in the drain embankments unless express permission has been granted by the Engineer.

### **Over Excavation**

Should any drain be excavated or any embankment or any berm be formed beyond the tolerance specified, the Contractor shall form the specified cross section or such other section as the Engineer may direct.

### **Single Groynes**

Single Groynes shall be constructed from suitable timber and brushwood. The vertical stake shall be 18 inches apart; the girth of each stake shall be between 10 inches and 12 inches. The vertical stakes shall extend 1 ft above proposed berm level and 3 feet below bed level, and shall be intertwined with brushwood. Horizontal stakes with girths between 5 inches and 7 inches shall be placed 2 feet intervals fixed to vertical stakes up to berm level by galvanized nails and approved twine. The space between the vertical stakes shall be filled thoroughly with brushwood up to berm level.

### **Structures**

#### **Dewatering**

Where the Contractor is required to open up excavations in order to undertake construction of new structure or repair to an existing structure, he shall keep such excavation clear of water during the construction and repair work and, in case of structures being constructed in saline or any other aggressive groundwater, for such further period as may be necessary to avoid the submersion of newly placed concrete within 28 days of being placed. The method of keeping the excavation clear of water, dewatering, and disposal of water shall be subject to the approval of the Engineer. The Contractor shall ensure that sufficient stand-by plant is on the Site at all times to avoid any interruption in continuity of dewatering.

#### **Method of Excavation**

If required by the Engineer, the Contractor shall submit his proposed method of excavation, including details of necessary supports for the excavations, to the Engineer for his written approval.

#### **Working Space**

Excavation shall be carried out to such minimum dimensions as will permit adequate dewatering, proper support of the sides of the excavation, the erection of shuttering, placing of concrete and fill, including compaction, and any other construction operation.

## **Excavation of Pipe Lines**

Excavations for pipelines shall follow the lines and levels shown on the Drawings or as directed by the Engineer. Curves, where necessary, shall not involve angular deviations at any pipe joint greater than those recommended by the manufacturer and approved by the Engineer.

Properly painted sight rails and boning rods of predetermined measurement shall be supplied and shall be used to ensure the excavation is to true and even gradient.

Whether excavations for pipelines are constructed with vertical, sloping, or stepped sides, that portion of the excavation which extends from the formation to a level not less than 1 foot above the pipe when laid in its correct position shall be formed with vertical sides unless otherwise specified or ordered by the Engineer.

## **Backfill and Fill**

Backfill means selected material obtained from that excavated for the structure and replaced below original ground level. Selection shall be as for fill as specified in Clauses 4.08 and 4.10. All backfill and fill above original ground level at or adjacent to structures shall be compacted in accordance with Clause 4.11 or as directed by the Engineer.

## **Test on Formation Level**

On reaching the level for hand trimming specified in Clause 4.37, the Engineer may order in-situ or other tests as specified to determine the nature and strength of the soil.

## **Structure Foundations**

For structures, where the underside of part of the foundation lies between 4 inches and 18 inches below the existing ground level, the plan area of such section of the structure that is to be repaired shall be excavated in foundation to 18 inches below existing ground level and the space between the foundation and the underslab or blinding layer and the surface so exposed shall be made up with fill compacted in accordance with Clause 4.11.

Where the underside of any repair to part of a structure foundation is higher than 4 inches below the existing ground level, the ground shall be excavated in foundation to 12 inches below ground level and the volume between the surface so exposed and the underside of the foundation slab shall be filled with Class B concrete.

For structures, where the underside of any repair is found less than 12 inches below existing ground level, the ground shall be excavated in foundation to 12 inches below ground level and the space between foundation slab or blinding layer and the surface so exposed shall be made up with fill or backfill, as necessary, compacted in accordance with Clause 4.11.

## **Over-excavation**

Any excavation for structures beyond the limits specified or ordered, other than specified in Clause 4.35, shall be filled by the Contractor at his own expense with concrete of the same class as the concrete in the foundation or with gravel backing material or with specially compacted fill as the Engineer may require.

### **Hand Trimming at Formation Level**

Where the formation level of any excavation is to receive concrete or backfill, the final 6 inches of the excavation shall be trimmed by hand, or such other method as may be approved or ordered by the Engineer, after removal of any slurry and immediately before the placing of concrete or backfill.

### **Protection of the Works**

The Contractor's proposals for protecting work constructed under the Contract from damage by flooding or otherwise shall be submitted to the Engineer, but such submission shall not in any way absolve the Contractor from responsibility for any damage, which may be incurred subsequently.

### **Minor Repairs to Earthworks around Structures**

A structure may be damaged by erosion or piping of the fill material around it as a result of poor quality backfill. Three potential problems may be recognized:

- a) Swallow holes appearing at the surface, possibly indicating that material is being washed through the structure;
- b) Erosion runnels around the sides of the structure, possibly leading to an undermining of a part of the structure;
- c) Ponding due to a shallow depression close to the structure, possibly leading to a weakening of the foundations, and the development of deep ruts if traversed by vehicles.

In order to remedy these problems the Contractor shall undertake any excavation as ordered by the Engineer to investigate the cause and severity of the problem. As a result of such investigation, or otherwise the Engineer shall order the Contractor to undertake such backfilling or local re-profiling as he considers necessary.

### **Refilling of Pipeline Trenches**

The excavation of pipelines shall be refilled in two stages. Trench supports shall be withdrawn gradually in accordance with the progress of the fill subject at all times to the provision that such withdrawal does not prejudice the safety of the Works.

#### **(a) First Stage**

The pipe, pipe bedding and concrete surround (if any) shall be covered to a depth of 12 inches above the crown of the pipe or concrete surround, whichever is higher. Selected excavated material with particle size not exceeding 1 inch shall be evenly placed and compacted in layers not exceeding 4 inches thick after compaction.

The layers shall be compacted by hand controlled vibrators on each side of the pipe only. The method of compaction shall be such as to achieve not less than 95 per cent of maximum dry density as specified in Clause 4.11. This work shall commence as soon as possible after pipe laying and bedding is complete (including testing, where ordered) in the section or length concerned.

Concrete bedding or surround shall be at least 72 hours old before refilling commences.

#### **(b) Second Stage**

The remainder of the trench shall then be filled with excavated material with particle sizes not exceeding 2 inches, evenly placed and compacted in layers not exceeding 6 inches thick after compaction.

The method of compaction shall be as to achieve not less than 95 per cent maximum dry density as specified in Clause 4.11

This work shall be commenced and completed without delay.

## **TECHNICAL SPECIFICATIONS**

### **DISMANTLING**

#### **General**

The Contractor shall provide labour, equipment and material to perform the dismantling / demolition of structures completely or partially as specified on the Drawings and directed by the Engineer.

#### **Works included in Dismantling**

Dismantling shall include, but will not be limited to, the following:

- demolition of structures to be completely removed;
- removing cement or lime plaster;
- demolition of protection works to be completely removed;
- dismantling carefully a part of a structure without causing damage to the part of the structure to be retained as a part of the new structure;
- protecting structures or parts of the same structure from damage during dismantling operations;
- disposing of the waste materials to the approved waste pile or as directed by the Engineer;

#### **Masonry and Concrete Works**

Dismantling of masonry and concrete as required to be carried out to existing structures which are to be partially preserved shall be undertaken using pickaxes and crowbars by manual labour up to the lines and levels as shown on the Drawings or as instructed by the Engineer. Any damage caused to the Works during the dismantling operations shall be repaired or replaced at the expense of the Contractor. Dismantled material shall be stacked or disposed of as directed by the Engineer.

#### **Removal and Reuse**

Precast concrete blocks, stone, bricks and other materials which the Engineer instructs for reuse shall be removed safely using mechanical equipment, if necessary, and stored in a near by place as directed by the Engineer. The removed material shall be cleaned and reused at locations as directed. Steel and wood shall be stacked item-wise in Employer's stores irrespective of whether it will be re-used or not, as directed by the Engineer.

## **TECHNICAL SPECIFICATIONS**

### **CONCRETE**

#### **Cement**

The cement used in the Works shall be ordinary Portland cement (OPC) complying with BS 12, or sulphate resisting cement (SRC) complying with BS 4027, as may be specified in the Contract.

The Contractor shall supply samples of cement, when requested by the Engineer, both from the Contractor's store on Site and from the place of manufacture.

The Contractor shall supply the manufacturer's test certificate for each consignment of cement received at the Site as provided for in Clauses 10 and 12 of BS 12. He shall maintain a record available for inspection by the Engineer of the locations of concrete made from each consignment.

For the purpose of BS 12, the Site shall be deemed to have a tropical climate.

#### **Aggregates**

Aggregates for concrete shall comply with BS 882 at the time of use. Aggregates which are likely to cause alkali aggregate reaction in the concrete shall not be used.

Fine aggregate shall consist of natural sand. The Engineer will permit the addition of suitable crushed rock fine aggregate, as necessary, to the natural sand where in his opinion it is impracticable to obtain the required grading of the combined aggregates otherwise than by such addition. The maximum quantities of clay, silt and fine dust shall, in any event, not exceed 3 percent by weight as determined by the test given in Clause 7.2.4 of BS 812, Part 1:1975.

Coarse aggregate shall comply with the requirements in Table 4 of BS 882:1983 for graded aggregate to the nominal maximum size specified for the appropriate class of concrete.

The aggregate shall be such that concrete, when made and tested in accordance with Building Research Station Digest 35 (2nd series), shall not show a drying shrinkage greater than 0.065 percent.

Immediately after commencement of the Works the Contractor shall supply and deliver samples of proposed aggregates for testing at an Approved Laboratory. If the material in the samples passes the specified tests for quality the Engineer will give approval to the source of aggregates proposed by the Contractor.

Alternatively, and subject to the approval of the circumstances by the Engineer, the Contractor may submit test certificates in respect of the proposed aggregates from an independent laboratory.

Unless otherwise specified, separate fine aggregate and 0.75" nominal maximum size coarse aggregate shall be used. When 1.5" nominal maximum size coarse aggregate is specified or approved it shall be a separate grading additional to the 0.75" aggregate added at the time of batching the concrete ingredients.

During the performance of the Contract, the Contractor shall supply samples of aggregates when required by the Engineer (the samples shall be taken in accordance with BS 812) at a frequency at least once every six months at each source of each grading approved by the Engineer.



## **Water**

The water used for making and curing concrete shall be from a source approved by the Engineer and at the time of use shall be free from objectionable quantities of silt, organic matter, alkali salts or other polluting matter in any quantity which:

- (a) Affects the initial setting time of the cement by more than 30 minutes or reduces the compressive strength of test cubes by more than 20% when tested in accordance with BS 3148;
- (b) Prevents the achievements of the specified test cube strengths at 28 days for the appropriate class of concrete;
- (c) produces discoloration or efflorescence on the surface of the hardened concrete;
- (d) Aggravates or promotes an "alkali-aggregate" reaction.

Inorganic matter in solution shall not exceed 500 parts per million by weight and in suspension shall not exceed 30 parts per million by weight.

The Contractor shall make regular tests of the water taken from the points of delivery into the other ingredients of concrete and mortar in a pattern and at a frequency approved by the Engineer and shall furnish the Engineer with two copies of each test result.

## **Additives**

Concrete shall be made from cement, aggregates and water as specified. No other ingredient shall be mixed with the concrete or mortar without the Engineer's approval.

If the Engineer approves the use of retarding or workability agents this use shall be subject to the following conditions:

- (a) No reduction of testing plan mean strength compared with additive-free concrete of the same class (see Clause 6.08);
- (b) No reduction of cement content prescribed;
- (c) No corrosive effect on reinforcement steel;
- (d) No alkali-aggregate reaction promoted; and
- (e) Dosage and admixture strictly in accordance with the manufacturer's instructions in respect of the specific conditions obtaining. Dosage to be by approved dispenser.

The Contractor may use a retarder to facilitate the preparation of construction joints, subject to the approval of the Engineer to the composition of the retarder and its method of application.

## **Chemicals in Materials**

The total sulphate content, whether as gypsum or more soluble salts, of concrete ingredients when measured as SO<sub>3</sub> shall together not exceed 4.0 percent of the weight of cement in the concrete.

The chloride content of concrete ingredients when measured as Cl shall together not exceed 0.2 percent of the weight of cement in the concrete.

### **Storage of Materials**

The Contractor's arrangements for storing and handling the materials for concrete shall be to the approval of the Engineer. Such arrangements shall be directed towards preventing the deterioration, adulteration or segregation of the various materials and ingredients thereof and shall ensure the ready identification and orderly use of consignments of cement.

### **Formwork**

Formwork shall be constructed to obtain the required profiles and surface textures of the structures and be such that it remains rigid during the placing and setting of the concrete.

It shall be fixed in accurate alignment and to the true shape and dimensions of the Works shown on the Drawings or ordered by the Engineer.

A method of support which would result in holes extending the whole width from face to face of concrete which forms part of the Works may be permitted at the Engineer's sole discretion. Any such holes shall be made good to the satisfaction of the Engineer and shall be located a minimum of 2 inches clear of any reinforcement.

No plugs, bolts, wire ties, holdfasts or any other appliance whatsoever, for the purpose of supporting the formwork or reinforcement, shall be fixed permanently into the structure so that they have less cover than the reinforcement or in any way impair the strength or appearance of the work, nor shall they be placed in such a manner that damage to work would result in the removal of the same at the time of striking the formwork.

Unless otherwise approved, top formwork shall be provided for concrete upper surfaces where the slope exceeds one vertical in three horizontal.

Except where otherwise specified, formwork for concrete faces which will remain exposed in the Works, shall be "face formwork", which is to say that it shall be such as will prevent the loss of any ingredients from the concrete and will produce a dense smooth concrete surface without discontinuities of line, texture or appearance. Face formwork shall be prepared from suitably thick portal wood to the satisfaction of the Engineer.

Except where otherwise specified, formwork for concrete faces which will remain hidden in the Works, shall be "back formwork", which is to say that it shall be such as will prevent the loss of any ingredient from the concrete and will produce a dense concrete surface.

Unless otherwise shown on the Drawings, exposed concrete edges shall be formed with a chamfer measuring 1 inch by 1 inch.

Before each concreting operation is commenced, formwork shall be carefully examined and cleaned.

All formwork in contact with concrete shall be treated with an approved composition before each usage to prevent adhesion of the concrete. Such composition shall be carefully applied in such a manner that there is no contamination of the reinforcement or previously placed concrete by the composition.

When so instructed the Contractor shall submit his proposed design and details of formwork for the Engineer's approval.

Formwork shall only be removed with the permission of the Engineer, and the work of removing it after the receipt of such permission shall be carried out under the personal supervision of a competent foreman, Great care shall be exercised during the removal to avoid shocks to, or reversal of stress, in the concrete.

### Classes of Concrete

The concrete used in the Works shall be of the class / grade shown on the Drawings or indicated in the Schedule of Prices or is ordered by the Engineer. Characteristics of the classes / grades of concrete which may be used are given in Tables 6.1 and 6.2 herein.

Except where otherwise specified herein, the concrete ingredients, manufacture, testing and workmanship shall conform with the requirements of Section 6 and 7 of CP 110: Part 1:1972 or equivalent.

The water/cement ratios referred to in the Specification are the ratios by weight of free water to cement in the mix and are based on the aggregates being in a saturated surface-dry condition.

The Contractor shall not commence concreting in the Works until a trial mix design for the class of concrete required has been approved by the Engineer pursuant to Clause 6.09 herein.

Adjustment to approved concrete mix proportions will only be made if, in the opinion of the Engineer, such adjustments are necessary.

The Contractor shall neither alter the mix proportions nor the source of supply of any of the ingredients without having previously obtained the approval of the Engineer.

**TABLE 6.1**

#### Concrete Classification

| Class | Grade | Cement Type | Maximum Aggregate Size (mm) | Testing Plan                       |                                       |
|-------|-------|-------------|-----------------------------|------------------------------------|---------------------------------------|
|       |       |             |                             | Mean Strength (N/mm <sup>2</sup> ) | Minimum Strength (N/mm <sup>2</sup> ) |
| BS    | 25    | SRC         | 40                          | 28                                 | 22                                    |

Concrete classes / grades shall be generally used as indicated below:

Grades                  Class

25                  BS                  Sulphate resisting concrete - general use (mass and reinforced

### Design Mix Concrete

Some characteristics required of concrete produced to design mixes are given in Table 6.2

The Contractor shall determine to the approval of the Engineer the actual proportions of ingredients for each class of concrete. Unless otherwise agreed by the Engineer and except where not consistent with these Specifications, such determination shall be in accordance with the recommendations of Clause 6.5 of CP 110: Part 1:1972 or ASTM equivalent.

**TABLE 6.2**

#### Design Mix Concrete

| Class | Grade | Minimum<br>cement content<br>(kg/m <sup>3</sup> of concrete) | Maximum<br>water/cement ratio | Trial mean<br>Strength<br>(N/mm <sup>2</sup> ) |
|-------|-------|--------------------------------------------------------------|-------------------------------|------------------------------------------------|
| BS    | 25    | 330                                                          | 0.45                          | 36.5                                           |

The Contractor shall make trial mixes for each class / grade of concrete using the same type of Contractor's Equipment and the same materials as are proposed for the Works. The Contractor shall give 24 hours notice of such trials so as to enable the Engineer's Representative to attend. For each trial mix, three separate batches of concrete shall be made. From each batch of concrete, three 150 mm (6 inch) concrete cubes shall be made by the Contractor and will be tested by the Engineer at 28 days all in accordance with BS 1881 or equivalent.

The Engineer with respect to strength will approve a trial mix design if the average compressive strength of the nine cubes so tested is more than the trial mean strength appropriate to the class as given in Table 6.2

### **Compliance with Strength Requirements**

Of the three cubes made from each sample of fresh concrete in accordance with Clause 6.09, of the specification one will be crushed at 7 days and the other two at 28 days. The average of the two 28 days strengths will be taken as the test result. Compliance with the specified strength requirements shall always be judged on the results of tests taken at 28 days.

Concrete shall be considered to have failed to comply with the Specifications;

- (a) if a test result is less than the testing plan minimum specified for that class of concrete, in which case the concrete which it represents shall be broken out and removed by the Contractor when ordered;
- (b) if the average of four consecutive test results for that class / grade of concrete shall have failed to exceed the testing plan mean strength as specified in which case no further concrete of that class shall be placed in the Works until the Contractor shall have discovered the cause of such failure and rectified it to the satisfaction of the Engineer.

### **Control and Mixing Ingredients**

The Contractor shall proportion the ingredients of each batch of concrete accurately by weight or volume. The water shall be added to the aggregates and cement in a mechanical batch mixer; it shall not exceed the amount specified in Table 6.2 hereof and shall otherwise be the minimum amount necessary consistent with complete compaction. The device for measuring the water shall show accurately the weight or volume required having regard to the moisture content of the aggregate and shall be so designed that the water supply will be stopped automatically when the correct quantity has been discharged into the mix. The concrete ingredients shall then be mixed thoroughly.

The Contractor may use volume batching if approved by the Engineer and if customized volume boxes are provided for each mix and if the cement content in all classes other than D is increased by 5 percent above the cement content of the design mix.

The Contractor shall provide standard test weights and any other auxiliary equipment required for checking the operating performance of each scale or other measuring device, and shall make periodic tests over the range of measurements involved in the batching operations. The tests shall be made in the presence of, and the test procedure shall be subject to the approval of, the Engineer. Unless otherwise directed tests of equipment in operation shall be made at least once every six months. The Contractor shall immediately make

such adjustments, repairs or replacements as may be necessary to meet the specified requirements for accuracy of measurement.

### **Truck Mixed Concrete**

Truck mixed concrete may be used with the prior approval of the Engineer provided that it complies with the Specification and with BS 5328, and that the water for the mix is added at the Site adjacent to the point of final deposit. Truck mixers shall comply with BS 4251. The manufacturer's data listed in Appendix B of BS 4251 shall be submitted to the Engineer for approval if requested.

### **Transportation, Placing and Compaction of the Concrete**

The concrete shall be handled so that at the point of deposition it is of the specified quality and consistency, nothing having been added to it or lost from it since leaving the mixer, and segregation of the concrete ingredients is avoided. Any concrete which has stiffened to a degree where proper placement cannot be assured should be wasted and no payment will be made to the Contractor for such wastage.

The Contractor shall obtain the approval of the Engineer to his proposed arrangements before commencing concreting. Concrete shall only be placed in the presence of the Engineer or his authorized representative.

The Contractor shall regard the compaction of the concrete as a work of fundamental importance and shall produce a watertight concrete of maximum density compatible with the approved mix. Compaction shall be assisted by the use of mechanical vibrators of the immersion type but shall not involve the vibration of reinforcement or formwork except that vibration of formwork may be allowed in the case of pre-cast concrete with the approval of the Engineer.

The number and type of vibrators available for use during each period of concreting shall be to the approval of the Engineer, which will not be given if sufficient standby vibrators are not readily available in good working order.

### **Surface Finishing**

Concrete surfaces of carriageways of roads and bridges shall have a finish similar to that left by a vibrated hardwood board, 50 mm (2 inches) thick, when used for screeding concrete to its proper level and profile immediately after deposition. Unformed exposed upper water conducting or water-retaining surfaces of concrete shall be floated with a steel float to a smooth finish. The floating shall be executed so as not to bring excess laitance or fine material to the surface. Special care shall be taken when forming curved crest profiles to ensure such profiles are accurately formed and junctions with other surfaces of concrete are free from discontinuities of line, level or appearance by use of templates or such other measures as the Engineer may deem necessary.

Except at movement joints, concrete surfaces which are to be covered by further concrete or cement mortar shall be thoroughly cleaned to expose the surface of the aggregate and to remove all laitance by hacking, wire brushing, washing with water or air under pressure or other approved means.

### **Concreting in Unfavourable Weather**

The Contractor shall not place concrete:

- (a) During heavy rain or dust storms; or
- (b) When the air temperature is more than 43 degrees C.

When the air temperature exceeds 30 degrees C the Contractor shall not place concrete without the approval of the Engineer and without taking such precautions as may be required to keep the temperature of the concrete during mixing and setting below 38 degrees C, for example, by keeping the concrete materials and formwork shaded from the sun and the aggregates and shutters sprayed with water. Concrete shall not be poured against formwork, which is hotter than 30 degrees C without the approval of the Engineer.

### **Curing Concrete**

Until it has thoroughly hardened, concrete shall be protected from the harmful effect of wind, sun, temperature and variations of temperature, premature loading or deflection or impact, and aggressive groundwater. Where structures are constructed in aggressive groundwater, the excavation shall be kept clear of water in accordance with Clause 4.29 hereof.

Unless otherwise approved by the Engineer, all concrete shall be cured by water curing. Concrete cured with water shall be kept wet for at least 7 consecutive days immediately following placement of the concrete, by covering with water saturated material, or by a system of perforated pipes, mechanical sprinklers, or porous hose, or by any other approved method which will keep all surfaces to be cured continuously (not periodically) wet. Water used for curing shall meet the requirements of these specifications for water used for mixing concrete.

### **Precast Concrete**

Unless otherwise specified or approved all precast work shall be of Class A / Grade 35 or Class BS concrete.

Each mould for concrete work which is specified or approved by the Engineer to be precast shall have a different embossed or recessed identification mark in a position to the approval of the Engineer.

Each precast unit shall be indelibly marked with the date of casting and after the mould is removed shall not be disturbed for 28 days thereafter.

Each precast unit shall, where required, be provided with lifting eyes and holes located to the approval of the Engineer so as to avoid unsafe stresses during handling.

## **TECHNICAL SPECIFICATIONS**

### **BRICKWORK AND STONE PITCHING**

#### **General**

All bricks shall be new and of the best quality of their respective kinds. They shall be clean, hard, sound and well burnt, equal in size, straight and sharp in the arrises and shall be obtained from manufacturers approved by the Engineer. Samples of ten bricks from each consignment of 20,000 bricks or less are to be submitted to the Engineer for his approval and every consignment delivered to the Works shall be equal in quality to the approved samples retained by the Engineer.

Bricks delivered to and within the Site, shall be unloaded by hand and not tipped.

#### **Cement Mortar for Brickwork**

Unless otherwise ordered cement mortar for brickwork shall consist of one part of Cement to four parts of sand by volume mixed with just sufficient water to make it workable.

Natural sand shall be used in cement mortar for brickwork unless otherwise approved. The sand shall be obtained from sources approved by the Engineer and shall comply with the requirements of BS 1200. When tested in accordance with BS 812 the grading of the sand shall be within the limits given in Table 1 of BS 1200:1976.

#### **Laying**

Unless otherwise specified brickwork shall be laid in English Bond. Bricks shall be laid true to line in level courses and to the dimensions shown on the Drawings or ordered by the Engineer. Immediately before being laid the bricks shall be thoroughly soaked in clean water for at least one hour before use and before continuing partly completed work the exposed bed joint shall be likewise soaked. The new work should be kept wet during construction and for ten days after completion. The joints shall generally be not more than 0.25 inch in the beds and 0.50 inch at the ends or such other dimensions as may be agreed by the Engineer and the whole joint shall be completely filled with mortar.

Brickwork shall be carried up in a uniform manner and no one portion carried more than 3 ft above another, the ends being racked not toothed.

For roads, the bricks on the edge shall be laid with their width parallel and joints at right angle to the center line of the road, the soil beneath the bricks should be well rammed and brought to proper level. The edging shall be made with bricks laid on either side of the carriageway.

The dimensions of the brick to be provided for this work shall be 4.5" (thick), 3" (wide) and 9" (deep).

#### **Surface Repairing of Existing Brick Masonry Structures**

All the cracked bricks should be removed and replaced with the new and best quality bricks. The bricks should be well burnt, equal in size, straight and sharp in the arrises. Sample of ten bricks for each consignment of 20000 bricks are to be submitted to the Engineer for his approval.

Unless otherwise specified, the deteriorated mortar joints/exposed faces shall be cleaned and racked out to a depth of 0.5 inches, and pointed as the work proceeds. The mortar used for pointing shall consist of one part of Sulphate Resisting Cement to three parts of building Sand by volume with just sufficient water to make it work able.

## **Cement Plaster**

The cement plaster shall consist of one part cement to three parts of sand by volume. Cement plaster shall be applied in two coats to give a total thickness of 0.50 inches or 0.75 inches as directed by the Engineer. The undercoat shall be thoroughly scratched and brought to a true surface before application of the topcoat.

The topcoat shall be finished to a true and even surface with a wood float. Corners shall be finished true, vertical, even and carried out at the same time as adjacent wall surfaces. All brickwork shall be cured as it is constructed and for not less than 10 days.

## **STONE PITCHING**

### **Preparation of Formation**

The Contractor shall prepare the formation for pitching by trimming the excavation accurately to the specified dimensions. Where over-excavation occurs it shall be back filled with specially compacted fill or, if a gravel backing is used, with the gravel backing material, all to the approval of the Engineer.

### **Gravel Backing (Sub-base) for Pitching**

Gravel Backing for pitching shall consist of approved clean broken stone or washed natural gravel, shall be well graded from 2.0 in to 0.50 in, and shall be laid to the thickness shown on the Drawings to give an even surface parallel to the exposed face of the pitching.

### **Dry Stone Pitching**

Dry stone pitching, consisting of pitching and packing stones and spalls, shall be of a hard durable rock from an approved source. Pitching shall be sound, clean and free from impurities such as earth or decomposed rock. Pitching stones shall be of random size and roughly hammer-dressed to fit together. The depth of each pitching stone shall approximate to the depth of pitching as shown on the Drawings and the cross-section shall not be less than 8 inches by 8 inches over the middle one-third of the depth. Each stone shall generally weigh not less than 75 lb. Packing stones shall be of individual weight not less 10 lb and shall be used to support the pitching stones and fill voids. Spalls shall be used for wedging and to fill gaps. The proportion of the total weight of placed stone shall not exceed 20 percent in the case of packing stones, and 5 percent in the case of spalls. The stones shall be laid so that the surface of the pitching is finished to true and even planes. A sample area of 250 sq.ft shall be prepared for the approval of the Engineer in accordance with Clause 3.01 hereof before proceeding with the execution of any dry stone pitching work.

### **Repairs to Dry Stone Pitching**

The work involves the repairs to any damaged areas of stone pitching, by removing the stones, making up the gravel backing and replacing the stone to the required line and level.

Where repair of existing stone pitching is required, the Contractor shall remove the affected stones for reuse. The formation shall be prepared by trimming, and where erosion of the formation has occurred, back filling shall be carried out using gravel backing in compliance with Clause 7.06 hereof.

## **Course Rubble Masonry Hammer Dressed**

Stones shall be laid in horizontal courses not less than 6 inches in height. All stones in a course shall be of equal height and all courses of the same height, unless otherwise specified. But no course shall be thicker than the course below it. All stones shall be set full in specified mortar in beds and joints.



The face stone shall be square on all joints in masonry. The beds shall be hammer or chisel-dressed, true and square, for at least 3 inches back from the face, and the joints for at least 1.5 inches. The face of the stone shall be hammer dressed and “bushing” not to project more than 1.5 inches.

All side joints shall be vertical and beds horizontal, and no joint shall be more than 3/8 inch in thickness. No pinning shall be allowed on face.

No face stone shall be less in breadth than its height, nor shall it tail into the work to a length less than its height; at least 1/3<sup>rd</sup> of the stone shall tail into the work at least twice its length or in walls thicker than 2 feet, three times its height.

Through stones shall be inserted 5 to 6 feet apart in every course, and shall run right through the wall, not more than 2 feet thick. When the wall is more than 2 feet thick, a line of two or more headers shall be laid from face to back, which shall overlap each other at least 6 inches. The headers shall have a length of at three times the height. Stone shall break joint by at least half the height of the course.

Quoins shall be of the same height as the course in which they occur, shall be formed of stone at least 1.5 feet long and shall be laid stretcher and header alternately. They shall be laid square on their beds which shall be fairly dressed to a depth of at least 4 inches.

The work on the interior face shall be precisely the same as on the exterior face, except that side joints need not be vertical. The interior of the wall, called hearting, shall consist of flat-bedded stones carefully laid on their proper beds and solidly bedded in mortar. Chips and spawls of stone are wedged in, wherever necessary, so as to avoid thick beds or joints of mortar. No dry work or hollow spaces shall be left anywhere in the masonry. The face work and hearting shall be brought up evenly, but the hearting shall not be levelled up at each course by the use of chips.

## **TECHNICAL SPECIFICATIONS**

### **REINFORCING STEEL BARS**

#### **General**

The work consists of furnishing, cutting, fabrication, bending and placing steel reinforcement and welded wire fabric in concrete structures or elsewhere at any elevation as shown on the drawing or/and as directed by the Engineer for a complete job.

#### **Materials**

Reinforcing bars, except 1/4" dia bars, shall conform to the requirements of ASTM A-615 Gr. 60 for deformed hot rolled new stock billet steel bars and shall have a minimum yield strength of not less than 60,000 psi (414 Mpa) and 1/4" dia bars shall conform to the requirements of ASTM A-615 Gr. 40.

Reinforcement shall be free from all loose or flaky rust and mill scale, or coating including ice, and any other substance that would reduce or destroy the bond. Reduced section steel reinforcement shall not be used.

The Engineer shall have the right to witness routine testing of steel reinforcing bars at the manufacturer's workshop. When required by the Engineer, the Contractor shall take samples from the reinforcing steel bars delivered to the site and shall arrange for the samples to be tested by an approved testing agency. Test certificates from the agency shall be submitted to the Engineer.

The Contractor shall submit certificates of compliance from the manufacturer stating that the supplied reinforcement conforms to the specifications. In addition, wherever and as directed by the Engineer, conformance of the supplied reinforcing bars with the specifications shall be demonstrated by the Contractor through laboratory tests, in accordance with the relevant standards.

#### **Storage of Reinforcing Bars**

The Contractor shall stack separately and label different types of reinforcement for positive identification of the manufacturer, size and productive run or other number, which relates to the last certificates furnished by the manufacturer. All reinforcement shall be stored under cover on wooden or concrete supports at least 6" above the ground.

#### **Placing Reinforcing Bars**

The reinforcing bars shall conform to the requirements shown on the reinforcement design drawings. The steel bars shall be securely and accurately fixed in position as shown on the drawings using approved spacer blocks or chairs. All interconnection of bars shall be secured with soft wire, the ends turned into the body of the concrete.

Splices shall be located where shown on the Drawings. The location of splices may be altered subject to the written approval of the Engineer.

Splice lengths shall be according to A.C.I requirements or as shown on the Drawings. All additional splices allowed for the convenience of the Contractor shall be at the expense of the Contractor and with prior written approval of the Engineer.

Bars shall be cut and bent in accordance with ACI 315, bending shall be carried out slowly at a steady even pressure without jerking or heating.

Unless otherwise prescribed, placement dimensions shall be to the centerline of the bars. Reinforcement will be inspected for compliance with requirements as to size, shape, length, splicing, position, and amount after it has been placed.

Before reinforcement is embedded in concrete, the surfaces of the bars and the surfaces of any supports shall be cleaned of flaky rust, loose mill-scale, dirt, oil, and grease, or other foreign substances, which may impair the bond between concrete and the reinforcement. When there is delay in placing concrete, reinforcement shall be reinserted and reapproved by the Engineer before placing the concrete.

Reinforcement shall be accurately placed to meet the following tolerances:

- A. The amount of concrete covering reinforcement shall not deviate from that specified by more than 1/4 inch if the cover specified is more than 2½ inches, nor by more than 1/8 inch if the cover specified is 2½ inches or less.
- B. The spacing of reinforcing bars shall not deviate from the required spacing by more than 1/2 inch and the total number of bars shall be as shown on the Drawings.

Reinforcement shall be secured in position so that it will not be displaced during the placing of the concrete, and special care shall be exercised to prevent any disturbance of the reinforcement in concrete that has already been placed. Bars shall not be field bent to the extent of permanent set, nor straightened, except as approved by the Engineer or shown on the Drawings. Bars bent without approval shall be replaced to conform to the Drawings. Welding or tack welding of reinforcing bars will not be permitted except where approved by the Engineer. Chairs, hangers, spacers, and other supports for reinforcement shall be of concrete, metal or other approved material. Where portions of such supports will be exposed on finished concrete surfaces, the exposed portion of the supports shall be galvanized or made of corrosion-resistant material. Unless otherwise shown on the Drawings, reinforcement in structures shall be so placed that there will be a clear distance of at least 1 inch between the reinforcement and any anchor bolts, form ties, or other embedded metalwork.

The Contractor shall provide for the immediate availability of competent steel fixers and carpenters during the whole period of any concrete placement.

### **Reinforcement Drawings to be prepared by the Contractor**

The Contractor shall prepare and submit reinforcement detail drawings for review and approval, including bar-placing drawings, bar bending diagrams, and bar bending schedules, in accordance with the following provisions:

The Contractor's reinforcement detail drawings shall be prepared from reinforcement design drawings issued by the Engineer. These shall be submitted, in one (1) set and four (4) blueprints, at least 28 days before scheduled concrete placement for all structures.

The Contractor's reinforcement detail drawings shall be prepared following the recommendations established by the American Concrete Institute's "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 318-latest) unless otherwise shown on the reinforcement design drawings.

The Contractor's detailed reinforcement drawings shall clearly show necessary details such as quantities, shapes, lengths, sizes, and weights of the bars and laps, for checking the bars during placement and for use in establishing payment quantities.

The Contractor's reinforcement detail drawings shall be clean, legible, and accurate and checked by the Contractor before submittal. Acceptable reinforcement detail drawings will be reviewed by the Engineer for adequacy of general design and controlling dimensions. Errors, omissions, or corrections will be marked on the print, and one print of each drawing will be returned to the Contractor for correction. The Contractor shall make all necessary corrections shown on the returned prints, and resubmit the corrected drawings as before. Such review and approval shall not relieve the Contractor of his responsibility for the correctness of details or for conformance with the requirements of these Specifications.

## **TECHNICAL SPECIFICATIONS**

### **PIPES AND PIPE LAYING**

#### **General**

The pipelines referred to in this Chapter are those having a maximum working pressure of less than 10 ft head of water and shall include all pipe formed culverts, conduits, underpasses etc.

#### **Materials and Design Criteria**

Low pressure pipelines in structures have been designed assuming that precast concrete pipes are used. However the Engineer may approve alternative systems, the details of which shall be submitted to the Engineer well in advance of any intended use. Such alternatives might include cast in-situ pipe culverts using inflatable moulds. No alternative system, which is likely to have a shorter useful life than precast concrete pipes will be permitted.

Unless otherwise specified on the Drawings, joints in low pressure or gravity pipelines shall be flexible.

#### **Concrete Pipes and Fittings**

Concrete pipes and fittings shall comply with BS 5911.

The cement used in the manufacture of the pipes shall be Sulphate Resisting Cement unless otherwise stated in the Drawings or ordered by the Engineer.

No admixtures shall be included in the concrete without the written approval of the Engineer.

If the pipes are to be supplied by a manufacturer, the Contractor shall produce to the Engineer for his approval, prior to any order for such pipes being made, confirmation from such proposed manufacturer that he can supply pipes of the required sizes, which will conform to the Specification.

During the course of manufacture, the Contractor shall supply the Engineer with certificates from the manufacturer as required under Clause 24 of BS 5911. Tests shall be made, for witness by the Engineer, unless otherwise ordered by him, all in accordance with BS 5911.

If the pipes are to be manufactured by the Contractor himself he shall obtain the equipment for pipe making from a reputable manufacturer whom he will have made aware of the requirements of this Specification and who will have undertaken that his plant, if his instructions are followed, will provide pipes which will comply with this Specification. The Contractor shall have satisfied himself that he will be able to comply with the instructions of the manufacturer with the materials available and under the conditions prevailing at the Site. The Contractor shall provide all details in respect of manufacture of pipes to the Engineer for his approval prior to commencement of casting and these details shall include his proposals for the fabrication and placing in position of reinforcement cages where these are to be used. The Contractor shall provide the equipment for testing and test samples in accordance with BS 5911, and the Engineer will apply the rules in respect of acceptance or rejection as set out therein.

#### **Joints for Concrete Pipes and Fittings**

Unless otherwise specified or ordered, joints for concrete pipes, bends and junctions shall be of the flexible spigot and socket type as specified in Clause 17 of BS 5911 incorporating rubber gaskets complying with BS 2494 all to the approval of the Engineer. Unless otherwise shown on the Drawings or approved by the

Engineer, joints shall be at not less frequent intervals than 12 feet. In the event of substitution of standards for the manufacture of pipes, the Contractor shall satisfy himself, inter alia, that the rubber gaskets he proposes to use fit the spigots and sockets he has been permitted to adopt and that the physical properties of the gaskets are suitable for their installation and use under the conditions prevailing on the Site.

Where ordinary ogee or rebated-type joints for concrete pipes, bends and junctions are specified or ordered by the Engineer, they shall comply with BS 5911, Part 3. Except where such pipes are shown on the Drawings as open jointed, cement mortar shall be used to seal the joints.

### **Asbestos Cement (AC) Pipes and Fittings** **AC pipes, couplings and fittings shall comply with PS 428:1984 and International Standard I.S.O. 160, edition 1980. Rubber rings shall conform the P.S. 1915:1987.**

The cement used in the manufacture of the pipes shall be about 85 % and chrysotile asbestos about 15 % otherwise as stated in the Drawings or ordered by the Engineer.

If the pipes are to be supplied by a manufacturer, the Contractor shall produce to the Engineer for his approval, prior to any order for such pipes being made, confirmation from such proposed manufacturer that he can supply pipes of the required sizes, which will conform to the Specification.

Physical properties and mechanical characteristics of AC pipes shall be as follow:

#### **Physical Properties**

|                                         |                                    |
|-----------------------------------------|------------------------------------|
| Density                                 | 1.8 kg/dm <sup>3</sup>             |
| Free moisture                           | 3%                                 |
| Coefficient of elongation               | 0.00001 m/m°C                      |
| Thermal conductivity coefficient        | 0.04 K Cal/m.h °C                  |
| Specific heat                           | 0.23 Cal/gm°C                      |
| Modulus of elasticity                   | 200,000-300,000 kg/cm <sup>2</sup> |
| Electrical conductivity (dry condition) | 550x10 <sup>6</sup> ohms cm        |

#### **Mechanical Characteristics**

|                                             |                         |
|---------------------------------------------|-------------------------|
| Bursting stress (internal pressure)         | 225 kgf/cm <sup>2</sup> |
| Crushing stress(external vertical load)     | 450 kgf/cm <sup>2</sup> |
| Longitudinal bending stress (external load) | 250 kgf/cm <sup>2</sup> |

#### **Bends in Pipelines**

Where it is required to form a bend in a pipeline of more than 11 degrees, either a precast pipe bend which meets the requirements of BS 5911 shall be placed, or the bend shall be cast in-situ in reinforced concrete forming rigid, watertight junctions with the adjacent straight pipes. If the bend is cast in-situ, reinforcement shall be maintained in the correct position during concreting. Where it is made up into cages, they shall be sufficiently rigid to enable them to be handled without damage. Bends cast in-situ shall be formed in a continuous operation; joints other than with adjacent sections of pipeline shall not be permitted. The concrete dimensions, reinforcement and internal surface finish shall be such as will give a bend of strength and internal dimensions, shape and smoothness at least equal to that required for pipe bends in BS 5911.

## **Bedding**

Except where pipes are to be laid in a concrete or gravel bed, pipes including bends shall be laid in a trench with the trench bed hand-shaped to support the pipe throughout the length of its barrel. Sockets or collars along the pipeline shall be accommodated by jointing holes formed in the bottom of the trench.

After laying the pipeline the trench shall be back-filled in accordance with Clause 4.32 of the Specification.

## **Pipe laying - General**

Each pipe immediately before being laid shall be carefully brushed out and examined for soundness.

Unless otherwise shown on the Drawings pipelines shall be straight between manholes or other structures and each pipe shall be laid accurately within the following tolerances to the lines and levels shown on the Drawings or ordered by the Engineer:

| Nominal internal diameter | Tolerance in line or level |
|---------------------------|----------------------------|
| Up to 30 inches           | 0.5 inch                   |
| Over 30 inches            | 1.0 inch                   |

Provided always that there shall be no reverse gradient on any pipe or on the line as a whole.

Properly painted sight rails shall be supplied and erected and used with boning rods of predetermined measurement for the boning in of individual pipes to the correct alignment. The sight rails shall be situated vertically above the line of pipe or immediately adjacent thereto, and there shall at no time be less than three sight rails in position on each length of pipe under construction to any one gradient.

## **Pipe laying in Concrete Bed**

Where pipes are to be laid in a concrete bed, immediately after excavation has been completed the Engineer's approval to commence concreting the blinding layer shall be sought and, when this has been obtained, concreting shall start forthwith to the dimensions shown on the Drawings or as ordered by the Engineer. After allowing at least 12 hours for the blinding concrete to set, the concrete blinding layer shall be washed clean. The pipe to be laid shall be firmly supported to true line and gradient on precast concrete saddles and separated from them by a 0.5 inch layer of fibre board or other approved flexible packing.

Before placing the concrete bed, a thickness of bituminous joint filler as specified, or other approved filler, shall be shaped and placed at every pipe joint to prevent concrete entering the pipe joint and to interrupt the concrete bed across its full section. The thickness of the joint filler shall be:

0.5 inch for pipes up to and including 3 ft nominal diameter; and

0.75 inch for pipes over 3 ft nominal diameter

After placing and fixing the reinforcement, if any, the blinding concrete shall be thoroughly washed down, avoiding damage to any protective coating and, in such a manner as not to disturb the pipes or joints, the concrete shall be placed and compacted. The surface of the placed and compacted concrete shall be raised evenly to within 1 inch of the underside of the pipe barrel over the full width of the excavation or between rigid vertical formwork to the required minimum width of the bedding. The concrete shall then be placed on one side of the pipe only and carefully worked under the pipe until all voids are filled and the pipe is firmly

supported on the concrete. The remainder of the concrete shall then be placed to bring up the level of the concrete equally on each side of the pipe.

After the pipeline has satisfied the preliminary test (if ordered) as specified in Clause 10.11 here in and after the concrete has been cured as specified for not less than 24 hours, the remainder of the excavation shall be refilled as specified in Clause 4.39 of the Specification.

### **Making Flexible Joints**

Flexible joints shall be made in accordance with the manufacturer's instructions and to the approval of the Engineer.

Until immediately required for incorporation in a joint, each rubber gasket shall be stored in the dark, free from the deleterious effects of heat or cold.

Lubricants for rubber gaskets shall not be toxic to plant or animal life and shall have no deleterious effect on the rubber joint rings, and shall be to the approval of the Engineer.

### **Testing Pipelines**

Where ordered by the Engineer pipelines shall be subjected to preliminary tests and tests on completion. The preliminary test shall be an air water test as specified below. The test on completion shall be a water test as specified below. The preliminary test shall be made after the pipeline length to be tested has been laid and jointed, but before completing the filling of the excavation or placing the concrete surround or bed, as the case may be. The test on completion shall be made after the pipeline excavation for the length under test has been filled. All fittings required for temporarily closing the openings in pipelines to be tested shall be properly designed for the purpose and shall be adequately strutted to withstand the pressure specified. All apparatus required by the Engineer for measuring and maintaining pressures and levels shall be supplied, fixed and maintained by the Contractor to the approval of the Engineer. A record shall be kept to the approval of the Engineer of all tests made and of their results.

Any length of pipeline for which the Engineer requires a test shall not be considered complete until it has satisfied the test on completion in the presence of the Engineer.

- (a) The air test shall be conducted as follows:

The pipelines shall be thoroughly wetted for the length under test. Air or smoke shall be pumped into the pipeline under test until a pressure equal to 4 inches of water is indicated in a graduated 'U' type gauge. After a period of 5 minutes without any further pumping, this pressure shall not have fallen below 3 inches.

- (b) The water test shall be conducted as follows:

The pipeline under test shall be filled with water from a header tank at the lower end, air being released through a valve at the upper end until the pipeline is completely full of water. After a period approved by the Engineer for absorption by the pipe material, water shall be added until the head over the soffit of the pipeline is 4 ft at its highest point, but not more than 20 ft at its lowest point. The water level in the header tank shall be marked. At the end of thirty minutes the amount of water necessary to bring the level in the header tank up to the original mark shall not exceed 0.07 gallons per hour per 100 ft of pipeline per half-inch of nominal internal diameter of pipe.



For pipelines of nominal internal diameter more than 2 ft, subject to the agreement of the Engineer (which will not be unreasonably withheld) the test on completion as specified may be substituted by a visual inspection by the Engineer of the internal surfaces of the pipeline for apparent defects together with a hydraulic test of the joints. The hydraulic test of the joints shall be performed using apparatus approved by the Engineer. The test pressure shall be twice the maximum pressure specified above for the test on completion, and the duration of the test shall be not less than 5 minutes. The test will be considered satisfactory if the loss of water is not greater than 0.0006 gallons per hour per inch of internal diameter per joint.

## **DRAWINGS**

### Bill Quantities Of ( Appendix -D To Bid )

**Name of Work :- CONSTRUCTION AND REHABILITATION OF 04 NOS. STRUCTURES OF DARYA KHAN BRANCH DRAIN, TANDO MUHAMMAD KHAN DRAINAGE DIVISION**

| S.# | ITEM                                                                                                                                     | AMOUNT (RS) |
|-----|------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1   | Estimate for Rehabilitation/ Restoration of Syphon over Darya Khan Branch Drain @ RD. 12+000 under Malook Shah Minor @ RD. 18+300.       |             |
| 2   | Estimate for Construction of Syphon over Darya Khan Branch Drain @ RD. 40+000 under Hiran Distry at RD. 38+900.                          |             |
| 3   | Estimate for Rehabilitation/ restoration of Village Road Bridge over Darya Khan Branch Drain @ RD. 19+500 (Mula-Katiar Road RD. 21+000). |             |
| 4   | Estimate for Construction of Pre-stressed Bridge over Darya Khan Branch Drain ( Khattar Road)                                            |             |
|     | <b>Total Rs.</b>                                                                                                                         |             |
|     | <b>Add: 5% SRB Rs:</b>                                                                                                                   |             |
|     | <b>G. Total Rs.</b>                                                                                                                      |             |

**EXECUTIVE ENGINEER  
T.M.KHAN DRAINAGE DIVISION  
T.M.KHAN**

## Bill of Quantities

### Rehabilitation/ Restoration of Syphon over Darya Khan Branch Drain @ RD. 12+000 under Malook Shah Minor @ RD. 18+300

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity | Unit    | Rate | IN<br>Word | Amount |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|------|------------|--------|
| 1   | Excavation in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structure with excavated earth Watering and ramming lead upto 5 ft. (b) In ordinary soil.                                                                                                                                                                                                                                                                                                                                                                                  | 241,961  | P.Cft   |      |            |        |
| 2   | Rehandling of earth work. (b) Upto a lead of 50 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 169,373  | P.Cft   |      |            |        |
| 3   | Extra for wet earth work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 72,588   | P.Cft   |      |            |        |
| 4   | Erection and removal of centering for R.C.C or plain cement concrete works of Deodar wood (2nd-Class) FOR PARTIAL WOOD (ii) Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 362      | P.Sft   |      |            |        |
| 5   | Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering (i) Ratio 1:4:8.                                                                                                                                                                                                                                                                                                                                                                                                                   | 5,390    | P.Cft   |      |            |        |
| 6   | Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering. (f) Ratio 1:2:4.                                                                                                                                                                                                                                                                                                                                                                                                                  | 600      | P.Cft   |      |            |        |
| 7   | 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. | 23,608   | Per Cft |      |            |        |
| 8   | Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars).                                                                                                                                                                                                                                                                                                                                                                           | 1686.29  | P-Cwt   |      |            |        |

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Unit   | Rate | IN Word | Amount |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|------|---------|--------|
| 9   | Boring for Tubewell in all water bearing, soils from ground level up to 100 ft: or 30.50 meter depth i/c sinking and with drawing of casing pipe. (e) 200 mm. (8" dia).                                                                                                                                                                                                                                                                  | 600      | P.Rft  |      |         |        |
| 10  | Supplying M.Sbail plug.                                                                                                                                                                                                                                                                                                                                                                                                                  | 10       | Each   |      |         |        |
| 11  | Supplying and installing PVC strainers 'C' class of approved design quality and make i/c necessary sockets etc. complete. b) 150 mm (6" dia)                                                                                                                                                                                                                                                                                             | 300      | P.Rft  |      |         |        |
| 12  | Supplying and installing M.S blind pipe 3/16" thick (5 mm thick) of best and approved quality and make including necessary socket etc. complete. (b) 150 mm (6" dia)                                                                                                                                                                                                                                                                     | 300      | P.Rft  |      |         |        |
| 13  | Full hire charges of pumping set per day inclusive of the wages of driver and assistant fuel or electric energy plate form required for placing pumps etc. at lower depths with suction and delivery pipes for pumping out water found at various depths from trenches including the cost of erection and dismantling after completion of the job. (ii) Hire charges of pumping set above 10 H.P pumping out water from 15' deep trench. | 480      | P.Day  |      |         |        |
| 14  | NOTE:- For working the pump beyond 8 hours the following payment shall be made, the higher of the pumping set it self being for 24 hours. i) For pumping set of above 10 H.P                                                                                                                                                                                                                                                             | 5,760    | P/Hour |      |         |        |
| 15  | Providing and Fixing PVC Water stopper.                                                                                                                                                                                                                                                                                                                                                                                                  | 132      | P/Rft  |      |         |        |
|     | <b>Rehabilitation of C.C Lining</b>                                                                                                                                                                                                                                                                                                                                                                                                      |          |        |      |         |        |
| 16  | Dismantling cement concrete plain 1:2:4                                                                                                                                                                                                                                                                                                                                                                                                  | 575      | P/Cft  |      |         |        |
| 17  | Borrowpit excavation undressed lead upto 100 ft (a) Ordinary Soil.                                                                                                                                                                                                                                                                                                                                                                       | 6,720    | P/Cft  |      |         |        |
| 18  | Carriage of 100 cft / 05 Tons of all materials like stone, aggregate, spawl , surkhi, etc (1 Mile)                                                                                                                                                                                                                                                                                                                                       | 1,344    | % Cft  |      |         |        |

| S.#                | Item                                                                                                                                                                                        | Quantity     | Unit           | Rate | IN Word | Amount |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------|---------|--------|
| 19                 | Extra for every 50 ft. additional lead or part thereof. (a) For earth work (Soft, ordinary, hard and very hard. (03 Leads rate of Rs.0.13x3                                                 | 4,704        | P/Cft          |      |         |        |
| 20                 | Earth work compaction by Sheep Foot Roller and Power Roller with optimum moisture content. c) For 85% modified AASHO density                                                                | 6,720        | %0 Cft         |      |         |        |
| 21                 | Earth work excavation in irrigation channels, drains etc, dressed to designed section grades and profiles excavated material disposed off and dressed within 50 ft lead. (a) Ordinary Soil. | 6,720        | P/Cft          |      |         |        |
| 22                 | Formation, dressing and preparing sub grade.<br>(a) In bed.<br>(b) On slope.                                                                                                                | 900<br>1,400 | P/Sft<br>P/Sft |      |         |        |
| 23                 | Erection and removal of centering for R.C.C or plain cement concrete works of Partial wood b) (ii) Vertical.                                                                                | 58           | P-Sft          |      |         |        |
| 24                 | Cement plaster 1-1/2" thick ratio 1: 6<br>(a) Inbed.<br>(b) On slope.(                                                                                                                      | 900<br>1,400 | P-Sft<br>P-Sft |      |         |        |
| 25                 | Cement concrete lining ratio 1:2:4.<br>(a) Inbed.<br>(b) On slope.                                                                                                                          | 225<br>350   | P-Cft<br>P-Cft |      |         |        |
| 26                 | Filling expansion joints with bitumen                                                                                                                                                       | 230          | P-Lft          |      |         |        |
| <b>Total Rs: -</b> |                                                                                                                                                                                             |              |                |      |         |        |

EXECUTIVE ENGINEER  
T.M.KHAN DRAINAGE DIVISION  
T.M.KHAN

## Bill of Quantities

### CONSTRUCTION OF SYPHON OVER DARYA KHAN BRANCH DRAIN @ RD. 40+000 UNDER HIRAN DISTRY AT RD. 38+900

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Quantity | Unit  | Rate | IN Word | Amount |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|---------|--------|
| 1   | Excavation in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structrure with excavated earth Watering and ramming lead upto 5 ft. (b) In ordinary soil.                                                                                                                                                                                                                                                                                                                                                                                 | 228,172  | P.Cft |      |         |        |
| 2   | Rehandling of earth work. (b) Upto a lead of 50 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 159,720  | P.Cft |      |         |        |
| 3   | Extra for wet earth work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 68,452   | P.Cft |      |         |        |
| 4   | Erection and removal of centering for R.C.C or plain cement concrete works of Deodar wood (2nd-Class) FOR PARTAL WOOD (ii) Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 350      | P.Sft |      |         |        |
| 5   | Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering (i) Ratio 1:4:8.                                                                                                                                                                                                                                                                                                                                                                                                                    | 5,010    | P.Cft |      |         |        |
| 6   | Cement concrete plain including placing compacting, finishing and curing, comlete (including screening and washing at stone aggregate without shuttering. (f) Ratio 1:2:4.                                                                                                                                                                                                                                                                                                                                                                                                                   | 540      | P.Cft |      |         |        |
| 7   | 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. (l) Ratio (1:2:4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge. | 20,674   | P-Cft |      |         |        |

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Unit    | Rate | IN Word | Amount |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|------|---------|--------|
| 8   | Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars).                                                                                                                                                                                                                       | 1476.71  | Per Cwt |      |         |        |
| 9   | Boring for Tubewell in all water bearing, soils from ground level up to 100 ft: or 30.50 meter depth i/c sinking and with drawing of casing pipe. (e) 200 mm. (8" dia).                                                                                                                                                                                                                                                                  | 600      | P.Rft   |      |         |        |
| 10  | Supplying M.S bail plug.)                                                                                                                                                                                                                                                                                                                                                                                                                | 10       | Each    |      |         |        |
| 11  | Supplying and installing PVC strainers 'C' class of approved design quality and make i/c necessary sockets etc. complete. b) 150 mm (6" dia)                                                                                                                                                                                                                                                                                             | 300      | P.Rft   |      |         |        |
| 12  | Supplying and installing M.S blind pipe 3/16" thick (5 mm thick) of best and approved quality and make including necessary socket etc. complete. (b) 150 mm (6" dia)                                                                                                                                                                                                                                                                     | 300      | P.Rft   |      |         |        |
| 13  | Full hire charges of pumping set per day inclusive of the wages of driver and assistant fuel or electric energy plate form required for placing pumps etc. at lower depths with suction and delivery pipes for pumping out water found at various depths from trenches including the cost of erection and dismantling after completion of the job. (ii) Hire charges of pumping set above 10 H.P pumping out water from 15' deep trench. | 480      | P.Day   |      |         |        |
| 14  | NOTE:- For working the pump beyond 8 hours the following payment shall be made, the higher of the pumping set it self being for 24 hours.i) For pumping set of above 10 H.P                                                                                                                                                                                                                                                              | 5,760    | P/Hour  |      |         |        |
| 15  | Providing and Fixing PVC Water stopper.                                                                                                                                                                                                                                                                                                                                                                                                  | 132      | P/Rft   |      |         |        |



| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quantity | Unit  | Rate | IN Word | Amount |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|---------|--------|
|     | <b>Embankment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |      |         |        |
| 16  | Borrowpit excavation undressed lead upto 100 ft (a) Ordinary Soil.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6,000    | P/Cft |      |         |        |
| 17  | Carriage of 100 cft / 05 Tons of all materials like stone, aggregate, spawl , surkhi,etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6,000    | % Cft |      |         |        |
| 18  | Earth work compaction soft ordinary hard soil<br>(b) laying earth work in 6" layers leveling dressing & watering for compaction etc complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6,000    | P/Cft |      |         |        |
| 19  | Earth work compaction by sheep feet roller and power roller with optimum moisture content. for 95% modified AASHO density. (CSR-2024, P-212, Item-1 (b))                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6,000    | % Cft |      |         |        |
|     | <b>Sub-Base</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |       |      |         |        |
| 20  | Preparing sub grade in cluding earth excavation or filling to an average depth of 9" dressing to camber and consolidation with power Roller.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,500    | % Sft |      |         |        |
| 21  | Preparing sub-base by supplying and spreading well graded pit or bed run gravel having a liquid limit not grater than 25 and plasticity index not grater than 6 inch proper camber and grade including watering, rolling and compacting in layers, thickness of each compacted layer not exceeding 6" compacted upto 98-100% density as per modified AASHO density.                                                                                                                                                                                                                                     | 750      | % Cft |      |         |        |
|     | <b>Base Course</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |       |      |         |        |
| 22  | Preparing base course i/c supplying and spreading stone metal of approved quality properly graded to maximum size of 1-1/2" in required thickness to Proper camber and grade including supplying and spreading 15 Cft: screenings and non plastic quarry fines, filling depressions with stone metal after initial rolling including watering and compaction the same so as to achieve 100% density as per modified AASHO specifications. (Rate includes providing and using templates, camber plates, screens, forms as directed .(Rate includes all cost of materials T&P and carriage upto 3 chins.) | 750      | % Cft |      |         |        |

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Unit  | Rate | IN Word | Amount |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|---------|--------|
|     | <b>Premixed Carpet</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |       |      |         |        |
| 23  | Providing and applying Priming coat or tack coat with approved binder required rate including cleaning the road surface thoroughly , heating to the required temperature and spraying the binder with pressure as directed etc, complete.                                                                                                                                                                                                                                | 4,060    | % Cft |      |         |        |
| 24  | Providing 1-1/2" Thick (consolidated) premixed carpet in proper camber and grade including supplying 15 Cft: bajri, 5Cft: hill sand (of approved quality and grade) bitumen of 80/100 Penetration including mixing in mechanical mixer in required Proportion including heating materials and cleaning the road surface (Hill sand 3 Cft: for mixing and 2.0 Cft: for dusting ) (Rate includes all cost of materials T&P and carriage upto 3 chains) a) Using Much Bajri | 4,060    | % Sft |      |         |        |
| 25  | Providing and laying brick on edging including supplying 9" x 4 - 1 /2" x 3" first class bricks, excavation for laying edging with small size parallel to the road.                                                                                                                                                                                                                                                                                                      | 200      | % Rft |      |         |        |
|     | <b>Total Rs.,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |       |      |         |        |

**EXECUTIVE ENGINEER**  
**T.M.KHAN DRAINAGE DIVISION**  
**T.M.KHAN**

## Bill of Quantities

### **REHABILITATION/ RESTORATION OF VILLAGE ROAD BRIDGE OVER DARYA KHAN BRANCH DRAIN @ RD. 19+500 (MULA-KATIAR ROAD RD. 21+000).**

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quantity | Unit    | Rate | IN Word | Amount |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|------|---------|--------|
| 1   | Excavation in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structure with excavated earth Watering and ramming lead upto 5 ft. (b) In ordinary soil.                                                                                                                                                                                                                                                                                                                                                                                 | 520,980  | P.Cft   |      |         |        |
| 2   | Rehandling of earth work. (b) Upto a lead of 50 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 364,686  | P.Cft   |      |         |        |
| 3   | Extra for wet earth work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 156,294  | P.Cft   |      |         |        |
| 4   | Erection and removal of centering for R.C.C or plain cement concrete works of Deodar wood (2nd-Class) FOR PARTIAL WOOD (ii) Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 430      | P.Sft   |      |         |        |
| 5   | Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering (i) Ratio 1:4:8.                                                                                                                                                                                                                                                                                                                                                                                                                  | 7,132    | P.Cft   |      |         |        |
| 6   | Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering. (f) Ratio 1:2:4.                                                                                                                                                                                                                                                                                                                                                                                                                 | 780      | P.Cft   |      |         |        |
| 7   | 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. (l) Ratio (1:2:4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge | 30,333   | Per Cft |      |         |        |

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Unit   | Rate | IN Word | Amount |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|------|---------|--------|
| 8   | Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars).                                                                                                                                                                                                                       | 2166.64  | P-Cwt  |      |         |        |
| 9   | Boring for Tubewell in all water bearing, soils from ground level up to 100 ft: or 30.50 meter depth i/c sinking and with drawing of casing pipe. (e) 200 mm. (8" dia).                                                                                                                                                                                                                                                                  | 720      | P.Rft  |      |         |        |
| 10  | Supplying M.S bail plug.                                                                                                                                                                                                                                                                                                                                                                                                                 | 12       | Each   |      |         |        |
| 11  | Supplying and installing PVC strainers 'C' class of approved design quality and make i/c necessary sockets etc. complete. b) 150 mm (6" dia)                                                                                                                                                                                                                                                                                             | 360      | P.Rft  |      |         |        |
| 12  | Supplying and installing M.S blind pipe 3/16" thick (5 mm thick) of best and approved quality and make including necessary socket etc. complete. (b) 150 mm (6" dia)                                                                                                                                                                                                                                                                     | 360      | P.Rft  |      |         |        |
| 13  | Full hire charges of pumping set per day inclusive of the wages of driver and assistant fuel or electric energy plate form required for placing pumps etc. at lower depths with suction and delivery pipes for pumping out water found at various depths from trenches including the cost of erection and dismantling after completion of the job. (ii) Hire charges of pumping set above 10 H.P pumping out water from 15' deep trench. | 560      | P.Day  |      |         |        |
| 14  | NOTE:- For working the pump beyond 8 hours the following payment shall be made, the higher of the pumping set it self being for 24 hours.<br>i) For pumping set of above 10 H.P.                                                                                                                                                                                                                                                         | 6,720    | P/Hour |      |         |        |
| 15  | Providing and Fixing PVC Water stopper.                                                                                                                                                                                                                                                                                                                                                                                                  | 140      | P/Rft  |      |         |        |

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Unit  | Rate | IN Word | Amount |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|---------|--------|
|     | <b>Embankment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |       |      |         |        |
| 16  | Borrowpit excavation undressed lead upto 100 ft (a) Ordinary Soil.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24,000   | P/Cft |      |         |        |
| 17  | Carriage of 100 cft / 05 Tons of all materials like stone, aggregate, spawl , surkhi, etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24,000   | % Cft |      |         |        |
| 18  | Earth work compaction soft ordinary hard soil (b) laying earth work in 6" layers leveling dressing & watering for compaction etc complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 24,000   | P/Cft |      |         |        |
| 19  | Earth work compaction by sheep feet roller and power roller with optimum moisture content. for 95% modified AASHO density. (CSR-2024, P-212, Item-1 (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24,000   | % Cft |      |         |        |
|     | <b>Sub-Base</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |       |      |         |        |
| 20  | Preparing sub grade in cluding earth excavation or filling to an average depth of 9" dressing to camber and consolidation with power Roller                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4,800    | % Sft |      |         |        |
| 21  | Preparing sub-base by supplying and spreading well graded pit or bed run gravel having a liquid limit not grater than 25 and plasticity index not grater than 6 inch proper camber and grade including watering, rolling and compacting in layers, thickness of each compacted layer not exceeding 6" compacted upto 98-100% density as per modified AASHO density.                                                                                                                                                                                                                                      | 2,400    | % Cft |      |         |        |
|     | <b>Base Course</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |      |         |        |
| 22  | Preparing base course i/c supplying and spreading stone metal of approved qualitiy properly graded to maximum size of 1-1/2" in required thickness to Proper camber and grade including supplying and spreading 15 Cft: screenings and non plastic quarry fines, filling depressions with stone metal after initial rolling including watering and compaction the same so as to achieve 100% density as per modified AASHO specifications. (Rate includes providing and using templates, camber plates, screens, forms as directed .(Rate includes all cost of materials T&P and carriage upto 3 chins.) | 2,400    | % Cft |      |         |        |

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quantity | Unit  | Rate | IN Word | Amount |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|---------|--------|
|     | <b>Premixed Carpet</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |         |        |
| 23  | Providing and applying Priming coat or tack coat with approved binder required rate including cleaning the road surface thoroughly , heating to the required temperature and spraying the binder with pressure as directed etc, complete.                                                                                                                                                                                                                                 | 8,640    | % Cft |      |         |        |
| 24  | Providing 1-1/2" Thick (consolidated) premixed carpet in proper camber and grade including supplying 15 Cft: bajri, 5Cft: hill sand (of approved quality and grade) bitumen of 80/100 Penetration including mixing in mechanical mixer in required Proportion including heating materials and cleaning the road surface (Hill sand 3 Cft: for mixing and 2.0 Cft: for dusting ) (Rate includes all cost of materials T&P and carriage upto 3 chains) a) Using Much Bajri. | 8,640    | % Sft |      |         |        |
| 25  | Providing and laying brick on edging including supplying 9" x 4 - 1 /2" x 3" first class bricks, excavation for laying edging with small size parallel to the road.                                                                                                                                                                                                                                                                                                       | 400      | % Rft |      |         |        |
|     | <b>Total Rs.,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |       |      |         |        |

**EXECUTIVE ENGINEER**  
**T.M.KHAN DRAINAGE DIVISION**  
**T.M.KHAN**

## Bill of Quantities

### CONSTRUCTION OF PRE-STRESSED BRIDGE OVER DARYA KHAN BRANCH DRAIN ( KHATTAR ROAD)

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quantity | Unit    | Rate | IN Word | Amount |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|------|---------|--------|
| 1   | Excavation in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structure with excavated earth Watering and ramming lead upto 5 ft. (b) In ordinary soil.                                                                                                                                                                                                                                                                                                                                                                                 | 343,420  | P.Cft   |      |         |        |
| 2   | Rehandling of earth work. (b) Upto a lead of 50 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 240,394  | P.Cft   |      |         |        |
| 3   | Extra for wet earth work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 103,026  | P.Cft   |      |         |        |
| 4   | Erection and removal of centering for R.C.C or plain cement concrete works of Deodar wood (2nd-Class) FOR PARTIAL WOOD (ii) Vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 516      | P.Sft   |      |         |        |
| 5   | Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering (i) Ratio 1:4:8.                                                                                                                                                                                                                                                                                                                                                                                                                  | 8,938    | P.Cft   |      |         |        |
| 6   | Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering(f) Ratio 1:2:4.                                                                                                                                                                                                                                                                                                                                                                                                                   | 1,038    | P.Cft   |      |         |        |
| 7   | 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. (l) Ratio (1:2:4) 90 Lbs.cement 2 Cft. Sand 4 Cft. Shingle 1/8" to 1/4" gauge | 45,801   | Per Cft |      |         |        |

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Unit    | Rate | IN Word | Amount |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|------|---------|--------|
| 8   | Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire (also includes removal of rust from bars)                                                                                                                                                                                                                        | 3271.50  | Per Cwt |      |         |        |
| 9   | Boring for Tubewell in all water bearing, soils from ground level up to 100 ft. or 30.50 meter depth i/c sinking and with drawing of casing pipe. (e) 200 mm. (8" dia).                                                                                                                                                                                                                                                                  | 720      | P.Rft   |      |         |        |
| 10  | Supplying M.S bail plug (PHES-2024, P-44, I-8 (b))                                                                                                                                                                                                                                                                                                                                                                                       | 12       | Each    |      |         |        |
| 11  | Supplying and installing PVC strainers 'C' class of approved design quality and make i/c necessary sockets etc. complete. b) 150 mm (6" dia)                                                                                                                                                                                                                                                                                             | 360      | P.Rft   |      |         |        |
| 12  | Supplying and installing M.S blind pipe 3/16" thick (5 mm thick) of best and approved quality and make including necessary socket etc. complete (b) 150 mm (6" dia)                                                                                                                                                                                                                                                                      | 360      | P.Rft   |      |         |        |
| 13  | Full hire charges of pumping set per day inclusive of the wages of driver and assistant fuel or electric energy plate form required for placing pumps etc. at lower depths with suction and delivery pipes for pumping out water found at various depths from trenches including the cost of erection and dismantling after completion of the job. (ii) Hire charges of pumping set above 10 H.P pumping out water from 15' deep trench. | 560      | P.Day   |      |         |        |
| 14  | NOTE:- For working the pump beyond 8 hours the following payment shall be made, the higher of the pumping set it self being for 24 hours.<br>i) For pumping set of above 10 H.P.                                                                                                                                                                                                                                                         | 6,720    | P/Hour  |      |         |        |
| 15  | Providing and Fixing PVC Water stopper. (CSR-2024, PHE, P-88, Item-127 (iii))                                                                                                                                                                                                                                                                                                                                                            | 140      | P/Rft   |      |         |        |



| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Unit  | Rate | IN Word | Amount |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|---------|--------|
|     | <b>Embankment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |       |      |         |        |
| 16  | Borrowpit excavation undressed lead upto 100 ft (a) Ordinary Soil.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24,000   | P/Cft |      |         |        |
| 17  | Carriage of 100 cft / 05 Tons of all materials like stone, aggregate, spawl , surkhi, etc 01 Mile)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 24,000   | % Cft |      |         |        |
| 18  | Earth work compaction soft ordinary hard soil<br>(b) laying earth work in 6" layers leveling dressing & watering for compaction etc complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24,000   | P/Cft |      |         |        |
| 19  | Earth work compaction by sheep feet roller and power roller with optimum moisture content. for 95% modified AASHO density. (CSR-2024, P-212, Item-1 (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24,000   | % Cft |      |         |        |
|     | <b>Sub-Base</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |       |      |         |        |
| 20  | Preparing sub grade in cluding earth excavation or filling to an average depth of 9" dressing to camber and consolidation with power Roller                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4,800    | % Sft |      |         |        |
| 21  | Preparing sub-base by supplying and spreading well graded pit or bed run gravel having a liquid limit not grater than 25 and plasticity index not grater than 6 inch proper camber and grade including watering, rolling and compacting in layers, thickness of each compacted layer not exceeding 6" compacted upto 98-100% density as per modified AASHO density                                                                                                                                                                                                                                       | 2,400    | % Cft |      |         |        |
|     | <b>Base Course</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |       |      |         |        |
| 22  | Preparing base course i/c supplying and spreading stone metal of approved qualitiy properly graded to maximum size of 1-1/2" in required thickness to Proper camber and grade including supplying and spreading 15 Cft: screenings and non plastic quarry fines, filling depressions with stone metal after initial rolling including watering and compaction the same so as to achieve 100% density as per modified AASHO specifications. (Rate includes providing and using templates, camber plates, screens, forms as directed .(Rate includes all cost of materials T&P and carriage upto 3 chins.) | 2,400    | % Cft |      |         |        |

| S.# | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quantity | Unit  | Rate | IN Word | Amount |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|---------|--------|
|     | <b>Premixed Carpet</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |       |      |         |        |
| 23  | Providing and applying Priming coat or tack coat with approved binder required rate including cleaning the road surface thoroughly , heating to the required temperature and spraying the binder with pressure as directed etc, complete.                                                                                                                                                                                                                                 | 10,668   | % Cft |      |         |        |
| 24  | Providing 1-1/2" Thick (consolidated) premixed carpet in proper camber and grade including supplying 15 Cft: bajri, 5Cft: hill sand (of approved quality and grade) bitumen of 80/100 Penetration including mixing in mechanical mixer in required Proportion including heating materials and cleaning the road surface (Hill sand 3 Cft: for mixing and 2.0 Cft: for dusting ) (Rate includes all cost of materials T&P and carriage upto 3 chains) a) Using Much Bajri. | 10,668   | % Sft |      |         |        |
| 25  | Providing and laying brick on edging including supplying 9" x 4 - 1 /2" x 3" first class bricks, excavation for laying edging with small size parallel to the road.                                                                                                                                                                                                                                                                                                       | 400      | % Rft |      |         |        |
|     | <b>Total Rs.,</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |       |      |         |        |

**EXECUTIVE ENGINEER**  
**T.M.KHAN DRAINAGE DIVISION**  
**T.M.KHAN**

### NOTICE INVITING TENDER

EPADS Website: <https://portalsindh.eprocure.gov.pk>

Electronic bids are invited through E-PADS under the Sindh Public Procurement Rules, 2010 (as amended up to date), from eligible and qualified contractors/firms for the following works under the "ADP Scheme titled "Rehabilitation and Restoration of Darya Khan Branch Drain & its Allied Structures" (ADP No. 1055 of 2026-27). The procurement shall be conducted through National Competitive Bidding using the applicable Standard Bidding Documents (SBDs).

| S.# | Name of Work                                                                                                         | Estimated Cost (PKR Million) | Bid Security (5%) | PEC Category | Tender Fee (PKR) | Completion Period |
|-----|----------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|--------------|------------------|-------------------|
| 1   | Construction & Rehabilitation of 4 Nos. Structures of Darya Khan Branch Drain, Tando Muhammad Khan Drainage Division | 377.300                      | 18.8650           | C-3 or above | 5,000/-          | 6 Months          |

**The complete set of Bidding Documents can be obtained and shall be submitted through E-PADS as per below schedule. Bidding Documents containing details, terms, and conditions are available at website:**

**<https://portalsindh.eprocure.gov.pk>**

### BIDDING SCHEDULE

| S.# | Particulars                                                                                                          | 1st Attempt                | 2nd Attempt (if re-tendering becomes necessary) |
|-----|----------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------|
| 1   | Last date of receipt of application and issuance of tenders after publication of the NIT in Newspaper up to 11.00 AM | 16-10-2026 at 11:00 AM     | 02-11-2026 at 11:00 AM                          |
| 2   | Tender will be received back up to 11.00 AM and opened on the same day at 12.00 (Noon)                               | 16-10-2026 at 12:00 (Noon) | 02-11-2026 at 12:00 (Noon)                      |

❖ **Method of Procurement: Single Stage – Two Envelope Procedure** (National Competitive Bidding).

### **❖ ELIGIBILITY / MANDATORY**

|                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Valid registration with the Pakistan Engineering Council (PEC) in the category stated against the relevant work, valid for the current financial year. together with the specialized codes appropriate to the nature of the work as specified in the bidding documents.                                      |
| 2. Experience of similar nature of works (at least one work of 80% of the estimated cost OR two works of 50% of the estimated cost) executed during last five years is required duly supported with completion certificate, certified copies of Detailed Working Estimate, Bid evaluation report, and SPPRA ID. |
| 3. Details (Bio Data) of key Engineering and Technical personnel proposed for the work, including qualifications and relevant experience, as required in the bidding documents.                                                                                                                                 |
| 4. Annual turnover of at least equal to estimated cost, in the last 5 years i.e. 2021-22, 2022-23, 2023-24, 2024-25, 2025-26, (turnover will be evaluated from annual returns and Audit Reports), Annual Income Tax returns of the last Five Years i.e. 2021-22, 2022-23, 2023-24, 2024-25, 2025-26.            |
| 5. Annual audited reports of the last five years (2021-22, 2022-23, 2023-24, 2024-25, 2025-26 ) from (ICAP) registered audit firm. Audit reports issued by other than (ICAP) registered audit firms will not be accepted.                                                                                       |
| 6. List of essential construction machinery and equipment, with evidence of ownership, lease, rental, or assured access, as permitted by the bidding documents.                                                                                                                                                 |
| 7. At least 40% or more annual average balance is required in the last 05 years (2021-22, 2022-23, 2023-24, 2024-25, 2025-26) to the estimated cost of work applied. Fresh Bank certificate (in original) must be attached, stating the annual average balance for the given period.                            |
| 8. Evidence of financial resources / access to credit facilities and bank statements for the period specified in the bidding documents. Any minimum financial-capacity requirement shall be stated in the bidding documents.                                                                                    |
| 9. Valid NTN / registration with the Federal Board of Revenue and active taxpayer status, where applicable.                                                                                                                                                                                                     |
| 10. Valid registration with the Sindh Revenue Board (SRB), where applicable.                                                                                                                                                                                                                                    |
| 11. Each page of the technical proposal must be numbered and attested by the owner of the firm / company along with its stamp.                                                                                                                                                                                  |
| 12. Bid security in shape of Call Deposit/Bank Guarantee will be accepted, (As mentioned above for each work.                                                                                                                                                                                                   |
| 13. The bidder shall not be debarred or blacklisted from participation in public procurement under the applicable law, rules or regulations. A declaration/undertaking to this effect shall be furnished in the prescribed form.                                                                                |
| 14. All information and documents submitted with the bid shall be authentic and verifiable. False, forged, or materially misleading information may result in rejection and further action under the applicable procurement law and regulations.                                                                |

contd. P-2

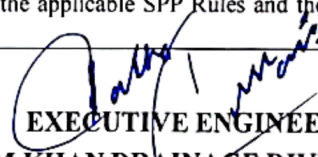


## SINGLE STAGE – TWO ENVELOPE PROCEDURE

- a. Each bid shall comprise one package containing two separate proposals: a Technical Proposal and a Financial Proposal, submitted/identified through E-PADS in the prescribed manner.
- b. Initially, only the Technical Proposals shall be opened and evaluated against the criteria stated in the bidding documents, without reference to price.
- c. No material amendment to a Technical Proposal shall be permitted during evaluation. Clarifications may be sought only to the extent permitted under the SPP Rules and shall not alter the substance or price of the bid.
- d. Financial Proposals of technically qualified bidders shall be opened publicly / through E-PADS on the date and time communicated to the qualified bidders in advance.
- e. Financial Proposals of technically non-responsive bidders shall remain unopened / be dealt with through E-PADS in accordance with the applicable procedure.
- f. Award shall be made to the Most Advantageous Bid, determined strictly in accordance with the evaluation criteria and the SPP Rules, subject to approval by the competent authority.

## GENERAL TERMS & CONDITIONS

1. Bids received after the prescribed deadline shall not be accepted by E-PADS / shall be treated in accordance with the applicable electronic procurement procedure.
2. Bidding documents and other terms and conditions can be seen or downloaded from the official website of SPPRA/E-PADS i.e <https://portalsindh.eprocure.gov.pk>. Downloaded documents shall be enclosed with apay order of Rs.5000/- (Nonrefundable). The tender fee amounts to PK Rs. 5000/- and the bid security against work in the shape of a Bank Guarantee or Call Deposit from any scheduled bank of Pakistan in favor of the Executive Engineer, Tando Muhammad Khan Drainage Division, Tando Muhammad Khan on account of (Name of firm) should be attached with the Technical Bid, otherwise such tenders will not be entertained.
3. The Technical Proposal and Financial Proposal, together with all required supporting documents, shall be clearly scanned and uploaded electronically through the E-Pak Acquisition and Disposal System (E-PADS) on or before the prescribed bid submission deadline. Only bids submitted electronically through E-PADS within the stipulated time shall be considered. Bids submitted by any other means or after the specified deadline shall not be entertained.
4. The Interested bidders must submit an original Bid Security in the shape of a Bank Guarantee or Call Deposit at Office of the Executive Engineer, Tando Muhammad Khan Drainage Division, Barrage Colony, Tando Muhammad Khan on or before the last fixed date & time and copy of the same should be uploaded on SPPRA E-PAD website, failing which, the bid shall be rejected.
5. In accordance with the established protocols, if a bid is not reflected in the bid opening list in E-PADS, it shall be deemed and treated as a "bid not submitted." Therefore, all participants are advised to verify the inclusion of their submissions in the bid opening list to avoid any misinterpretations regarding their bid status.
6. The bid validity period shall be 90 days from the deadline for submission of bids, unless otherwise stated in the bidding documents.
7. The Procuring Agency may seek clarifications of a bid in accordance with the SPP Rules; however, no bidder shall be permitted to alter the substance or price of its bid after the submission deadline.
8. The Procuring Agency reserves the right to reject all bids or proposals at any time prior to the acceptance of a bid or proposal, subject to the Sindh Public Procurement Rules, 2010 (as amended up to date), including recording and communicating the reasons as required by the Rules.
9. If the scheduled opening day is declared a public holiday or the opening cannot take place for a reason recognized under the applicable procurement procedure, the matter shall be handled in accordance with SPPRA/E-PADS requirements and the revised date/time, where required, shall be communicated through the prescribed channel.
10. Place for inquiries and physical proceedings, where required: **Office of the Executive Engineer, Tando Muhammad Khan Drainage Division, Barrage Colony, Tando Muhammad Khan. Telephone: 022-3341732.**
11. In case of any inconsistency between this NIT and the bidding documents, the applicable SPP Rules and the bidding documents issued through E-PADS shall govern.

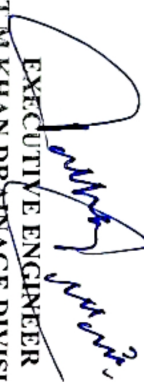
  
**EXECUTIVE ENGINEER**  
**T.M.KHAN DRAINAGE DIVISION,**  
**@T.M.KHAN**

### **Copy forwarded with compliments to:**

1. The Secretary to Government of Sindh, Irrigation Department, Karachi, for favor of information.
2. The Chief Engineer, Southern Sindh Drainage Region, Hyderabad, for information.
3. The Superintending Engineer, Left Bank Drainage Circle, Hyderabad, for information.
4. The Director (Advertisement), Information Department, Government of Sindh, with requisite copies for publication in leading English, Urdu and Sindhi newspapers.
5. The Director (A&F), SPPRA, Karachi, for information and necessary action.
6. All Members of the Procurement Committee, for information and participation in the procurement proceedings as scheduled.
7. All concerned Executive Engineers / Assistant Executive Engineers, for information.
8. Notice Board, for wide publicity.

PROCUREMENT PLAN OF ON GOING ADP SCHEME FOR THE YEAR 2026-2027

| S. No. | Name of Scheme                                                                                                       | Allocated Fund | Funds Reserved for on going Scheme (Rolling Plan) | Estimated cost of on going works (Rolling Plan) | Funds Reserved for remaining component (to be procured) | Nature of procurement plan | Method of procurement plan   | Anticipated date of Advertisement | Anticipated date of start | Anticipated date of completion |
|--------|----------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------|-------------------------------------------------|---------------------------------------------------------|----------------------------|------------------------------|-----------------------------------|---------------------------|--------------------------------|
| 1      | 2                                                                                                                    | 3              | 4                                                 | 5                                               | 6                                                       | 7                          | 8                            | 9                                 | 10                        | 12                             |
| 1      | Construction & Rehabilitation of 4 Nos. Structures of Darya Khan Branch Drain, Tando Muhammad Khan Drainage Division | --             | 377.300                                           | 377.300 (Pak Rs. Million)                       | 377.300 (Pak Rs. Million)                               | Works                      | Single Stage two envelopment | 18.09.2026                        | 08.11.2026                | 6 months                       |

  
 EXECUTIVE ENGINEER  
 T.M.KHAN DRAINAGE DIVISION  
 T.M.KHAN





OFFICE OF THE CHIEF ENGINEER  
SOUTHERN SINDH DRAINAGE REGION, HYDERABAD.

No: CE/SSDR/Proc: Committee/ 257 of 2026.

Hyderabad dated: 18/06/2026.

READ: Secretary to Government of Sindh, Irrigation Department, Karachi's letter No: SO((R&S)/8-110/2012-13, dated: 14.12.2015, regarding authorization of Notify the Procurement Committee.

**NOTIFICATION.**

Based on the recommendation received from Superintending Engineer, Left Bank Drainage Circle, Hyderabad, the following members of Procurement Committee is hereby constituted as per SPPRA Rule 2010, (Amended, 2019) for procuring the M&R and ADP works in T.M.Khan Drainage Division, T.M.Khan for the year 2026-2027.

Executive Engineer,  
T.M.Khan Drainage Division,  
T.M.Khan

Chairman

Assistant Engineer,  
Highway Sub Division,  
Jati

External Member

Assistant Executive Engineer,  
T.M.Khan Drainage Sub Division,  
T.M.Khan.

Secretary/Member

  
(FAREED AHMED MEMON)  
CHIEF ENGINEER  
SOUTHERN SINDH DRAINAGE REGION  
HYDERABAD.

C.c. to: -

01. The Secretary, Irrigation Department, Government of Sindh, Karachi.
02. The Managing Director, SPPRA, Karachi.
03. The Superintending Engineer, Left Bank Drainage Circle, Hyderabad.
04. The Executive Engineer, T.M.Khan Drainage Division, T.M.Khan, for information and further necessary action.
05. All Committee Members.



**OFFICE OF THE CHIEF ENGINEER  
SOUTHERN SINDH DRAINAGE REGION, HYDERABAD.**

No: CE/SSDR/CRC/258 of 2026.

Hyderabad dated: 18/06/2026.

READ: Secretary to Government of Sindh, Irrigation Department, Karachi's letter No: SO((R&S)/8-110/2019-20/Part XII/1706, dated: 16.10.2020, regarding authorization of Notify the Complaint Redressal Committee.

**NOTIFICATION.**

Based on the recommendation received from Superintending Engineer, Left Bank Drainage Circle, Hyderabad, the following members of Complaint Redressal Committee is hereby constituted as per SPPRA Rule 2010, (Amended, 2019) for procuring the M&R and ADP works in T.M.Khan Drainage Division, T.M.Khan for the year 2026-2027.

**Superintending Engineer,**  
Left Bank Drainage Circle,  
Hyderabad.

**Chairman**

**Divisional Accounts Officer,**  
T.M.Khan Drainage Division,  
T.M.Khan, .

**Member**

**Mr: Abdul Hameed Rajper,**  
Procurement Specialist  
Executive Engineer (Rtd:).

**Independent  
Member**

✓ (FAREED AHMED MEMON)  
CHIEF ENGINEER  
SOUTHERN SINDH DRAINAGE REGION  
HYDERABAD.

C.c. to: -

01. The Secretary, Irrigation Department, Government of Sindh, Karachi.
02. The Managing Director, SPPRA, Karachi.
03. The Superintending Engineer, Left Bank Drainage Circle, Hyderabad.
04. The Executive Engineer, T.M.Khan Drainage Division, T.M.Khan, for information and further necessary action.
05. All Committee Members.

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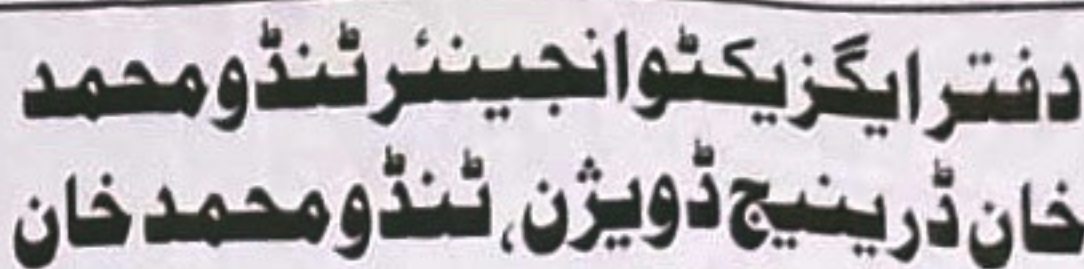
پاکستان کے 11 شہروں سے بیک وقت شائع ہونے والا واحد اخبار

جلد 29 نمبر 11 | جمعہ 3 ربیع الثانی 1448ھ 16 ستمبر 2026ء، سمات 8 قیمت 40 روپے

SC (MC) 989/2026

WEDNESDAY, SEPTEMBER 16, 2026





[www.elsevier.com/locate/jmr](http://www.elsevier.com/locate/jmr)

EPADS Website: <https://portal.sindh.gov.pk>

| ردیف | نام کام                                                                           | قیمت (ملین پاکستانی روپے) | بیل میٹری (sq) | PEC - کیمپری | نپڈر میں | معمول کی مدت |
|------|-----------------------------------------------------------------------------------|---------------------------|----------------|--------------|----------|--------------|
| 1    | دریافت و سرنگ آریج - لکڑی ٹھکانہ اور پکی اور پین<br>لے 400000000 روپے کی تعمیراتی | 377,300                   | 18,8650        | C-3 سے ہے    | 5,000/-  | 40           |

[illegible]

**اهلیت / لازمی شرائط**

- |    |                                                                                                                                                                                                                                                                               |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | حفظہ کام کے ساتھ درج کیسٹری میں پاکستان انجینئرنگ کونسل (PEC) کی سوچاؤ رپورٹ سال کے لیے درست رجسٹریشن، پیسہ کام کی نوعیت کے مطابق ہونی، رجسٹر اٹ میں سٹرک، رجسٹر اٹ اور ایجنڈا اور گواہی ہونی کے۔                                                                             |
| 2  | ای نوعیت کے کاموں کا تجربہ ضروری ہے، مثلاً گزشتہ پانچ سال کے دوران قیودہ لاگت کے کم از کم 10 لاکھ کام یا قیودہ لاگت کے 50 لاکھ کے 10 عملہ کے ہونے ہوں، جن کے ساتھ تفصیلی سرٹیفکیٹ، Detailed Working Estimate کی تصدیق شدہ کاپی، Bid Evaluation Report، SPPRA ID اور رجسٹر اٹ۔ |
| 3  | کام کے لیے سوچاؤ کو ایسٹیمٹ اور تخلیق جس کے تخمینہات (Men Data) بشمول قابلیت اور حفظہ تجربہ، ہونی رجسٹر اٹ کے مطابق فراہم کرنا ہوں گی۔                                                                                                                                        |
| 4  | گزشتہ پانچ سال میں 2021-2022، 2022-23، 2023-24، 2024-25 اور 2025-26 میں سالانہ قریب 10 لاکھ کم از کم قیودہ لاگت کے رجسٹر اٹ ہونا چاہیے۔ قریب 10 لاکھ یا کم سالانہ رجسٹر اٹ اور آؤٹ ریس سے لایا جائے گا۔ گزشتہ پانچ سال کے ساتھ انکم ٹیکس رجسٹر اٹ بھی فراہم کرنا ہوں گے۔      |
| 5  | گزشتہ پانچ سال 2021-2022، 2023-24 اور 2025-26 کی ACAP رجسٹر اٹ فرم سے جاری کردہ سالانہ آؤٹ ریس ضروری ہے۔ ACAP کے علاوہ کسی دوسری غیر رجسٹر اٹ فرم کی جاری کردہ رجسٹر اٹ قبول نہیں ہوگی۔                                                                                       |
| 6  | ضروری تعمیراتی مشینری اور آلات کی فہرست، ملکیت، لیو، ڈکریہ یا چھٹی دستہ یا نئے کے ثبوت کے ساتھ، ہونی رجسٹر اٹ میں رجسٹر اٹ کے مطابق فراہم کرنا ہوگی۔                                                                                                                          |
| 7  | گزشتہ پانچ سالوں میں درخواست کردہ کام کی قیودہ لاگت کے مقابلے میں کم از کم 40 لاکھ یا اس سے زیادہ سالانہ رجسٹر اٹ ہونا چاہیے۔ حفظہ رجسٹر اٹ اور سالانہ رجسٹر اٹ کا اصل ورک سرٹیفکیٹ منسلک کرنا لازمی ہوگا۔                                                                    |
| 8  | مالی وسائل / اگر ذاتی سرمایہ، سالانہ رجسٹر اٹ میں مقررہ مدت کے ورک اسٹیٹمنٹس کے ثبوت فراہم کیے جائیں، کم از کم مالی اسٹیٹمنٹ کی کوئی بھی شرط ہونی رجسٹر اٹ میں درج ہوگی۔                                                                                                      |
| 9  | نیشنل بورڈ آف رجسٹر اٹ کے ساتھ رجسٹر اٹ / NTN، رجسٹر اٹ اور رجسٹر اٹ قابل اطلاق ہو، Active Taxpayer Status 2021 کی ہوگی۔                                                                                                                                                      |
| 10 | جہاں قابل اطلاق ہو، رجسٹر اٹ (SRB) کے ساتھ رجسٹر اٹ اور رجسٹر اٹ ہونی ہوگی۔                                                                                                                                                                                                   |
| 11 | تخلیق یا رجسٹر اٹ کے برائے کوئی بھی رجسٹر اٹ فرم انجینئر کے ورک کی جانب سے سرسید تعمیراتی کی جائے۔                                                                                                                                                                            |
| 12 | ہونی سیکر، Call Deposit / Bank Guarantee کی شکل میں قبول کی جائے گی، جس کا رجسٹر اٹ کے لیے رجسٹر اٹ کیا گیا ہے۔                                                                                                                                                               |
| 13 | ہونی رجسٹر اٹ قابل اطلاق قوانین، قواعد یا ضوابط کے تحت ہونے پر رجسٹر اٹ میں شرکت سے Blacklisted / Debarred ہوں۔ اس مسئلے میں سٹرک، فرم پر Declaration / Undertaking فراہم کرنا ہوگا۔                                                                                          |
| 14 | ہونی کے ساتھ جمع کرنا کی تمام معلومات اور رجسٹر اٹ مستند اور قابل تصدیق ہوں گی۔ رجسٹر اٹ، رجسٹر اٹ اور رجسٹر اٹ کے معلومات ہونی کے مستند ہونے اور قابل اطلاق پروویڈر رجسٹر اٹ قوانین و ضوابط کے تحت رجسٹر اٹ کا رجسٹر اٹ بن سکتی ہیں۔                                         |

**سنگل اسٹج - ٹوانہ ویل طریقہ کار**

- |    |                                                                                                                                                                                            |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a. | پروپوزل ایک تکنیکی پر مشتمل ہوگی جس میں دو طبقہ ہونگے۔ یعنی Technical Proposal اور Financial Proposal شامل ہوں گی جو مشروط طریقے کے مطابق E-PADS کے ذریعے جمع / اخذات کی جائیں گی۔         |
| b. | ابتدائی طور پر صرف Technical Proposals کوئی جائیں گی اور قیمت کا حوالہ دینے والی دستاویزات میں بیان کردہ معیار کے مطابق ان کا جائزہ لیا جائے گا۔                                           |
| c. | پانچ کے دوران Technical Proposal میں کسی بنیادی ترسیم کی اجازت نہیں ہوگی۔ وضاحت صرف SPP Rules کی اجازت کی حد تک طلب کی جاسکتی ہے اور اس سے ہائی کی اصل قیمت یا قیمت تبدیل نہیں ہوئی چاہیے۔ |
| d. | تحقیق طور پر ملنے والی دہان کی Financial Proposals مشروط طریقہ کار پر مبنی طور پر E-PADS کے ذریعے کوئی جائیں گی، جس کی قطعی اصلاح ملنے والی دہان کوئی جائے گی۔                             |
| e. | تحقیق طور پر Non-Responsive (ملنے والی دہان کی Financial Proposals نہ رہیں گی) قابل الحاق طریقہ کار کے مطابق E-PADS کے ذریعے کوئی جائیں گی۔                                                |
| f. | سب سے زیادہ مستفاد پیشکش (Most Advantageous Bid) کو دیا جائے گا، جس کا تعین Evaluation Criteria اور SPP Rules کے مطابق اور معیار اقداری کی منظوری سے کیا جائے گا۔                          |

مجموعہ ثانیہ مضامین

- |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | مقررہ آخری وقت کے بعد وصول ہونے والی بولی E-PADS قبول نہیں کرے گا اس سے قبل اطلاق الیکٹرانک پروکیورمنٹ طریقہ کار کے مطابق لکھا جائے گا۔                                                                                                                                                                                                                                                                                                                                                                                            |
| 2.  | بولی دستاویزات اور دیگر شرائط و ضوابط SPPRA / E-PADS کی سرکاری ویب سائٹ سے دیکھے یا ان کو اپنے پاس رکھیں۔ ذیل نوٹ شدہ دستاویزات کے ساتھ - Rk 5,000/- (پانچ سو روپیہ) کا Pny Order ملکہ ہوگا۔ پیڈر میں - PKR Rk 5,000/- ہے جبکہ کام کے لیے Bid Security پاکستان کے کسی Scheduled Bank کی Call Deposit یا Bank Guarantee صورت میں Executive Engineer, Tando Muhammad Khan Drainage Division, Tando Muhammad Khan کے حق میں، رقم کے نام کے اکاؤنٹ پر، Technical Bid کے ساتھ ملکہ کر دیں گی، بصورت دیگر ٹینڈر پر غور نہیں کیا جائے گا۔ |
| 3.  | Technical Proposal اور Financial Proposal تمام مطلوبہ معیوں دستاویزات کے ساتھ واضح طور پر لکھیں کر کے مقررہ آخری تاریخ سے پہلے E-PADS کے ذریعے الیکٹرانک طور پر اپ لوڈ کیے جائیں۔ صرف مقررہ وقت اندر E-PADS کے ذریعے جمع کردہ بولیوں پر غور ہوگا۔                                                                                                                                                                                                                                                                                  |
| 4.  | دفعہ 1 کے تحت دئے گئے بولی دہندگان اصل Office of the Executive Engineer, Tando Muhammad Khan Drainage Division, Barrage Colony, Tando Muhammad Khan "مقررہ آخری تاریخ" وقت کان اسٹیج ٹرمینڈ "اس نئی" بولی SPPRA E-PAD کی ویب سائٹ پر اپ لوڈ کرنی چاہیے۔                                                                                                                                                                                                                                                                            |
| 5.  | اکر بولی E-PADS کی Bid Opening List میں ظاہر نہیں ہوتی تو اسے "Bid Not Submitted" سمجھا کر لیا جائے گا۔ نیز اتمام شرکا دعویٰ فتح کر دینی کی Bid Opening List میں موجودگی کی تصدیق کریں۔                                                                                                                                                                                                                                                                                                                                            |
| 6.  | بولی کی مدت اعتبار - بولیاں فتح کرنے کی آخری تاریخ سے 90 دن ہوگی جب تک بولی دستاویزات میں کچھ تبدیلی نہ کیا گیا ہو۔                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7.  | SPP Rules, Procuring Agency کے مطابق بولی سے متعلق ضمانت طلب کر سکتی ہے، جام آخری تاریخ کے بعد کسی بولی دہندہ کو بولی کی قیمت بحالیت تبدیل کرنے کی اجازت نہیں ہوگی۔                                                                                                                                                                                                                                                                                                                                                                |
| 8.  | Procuring Agency کسی بھی طرح کی شکایتوں سے عمل درآمد بولیاں یا تنخواہ مسترد کرنے کا حق حاصل ہوگا بشرطیکہ سند پبلک پروکیورمنٹ رولز 2010 (ترمیم شدہ) کی پابندی کی جائے۔                                                                                                                                                                                                                                                                                                                                                              |
| 9.  | Bidding Documents کی تعلیم فراہم کرنے والے قابل اطلاق پروکیورمنٹ طریقہ کار کے تحت کسی تسلیم شدہ ذمہ دار بولی دہندہ کی طرف سے حاصل کیے جانے والے Bidding Documents کی کاپی فراہم کی جائے گی۔                                                                                                                                                                                                                                                                                                                                        |
| 10. | معلومات اور یہاں ضروری ہو، ان کی کاپی فراہم کرنے کے لیے درخواست دہندگان کو مطلع کیا جائے گا۔ محمد خان، بیگم ادیس بیگم، ڈاکٹر ایف ایم خان، فیسفون: 022-3341732۔                                                                                                                                                                                                                                                                                                                                                                     |
| 11. | NIT اور Bidding Documents کے درمیان کسی تضاد کی صورت میں قابل اطلاق SPP Rules اور E-PADS کے احکامات جاری کریں اور Bidding Documents کو فوقیت حاصل ہوگی۔                                                                                                                                                                                                                                                                                                                                                                            |



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**OFFICE OF THE EXECUTIVE ENGINEER  
TANDO MUHAMMAD KHAN  
DRAINAGE DIVISION,  
TANDO MUHAMMAD KHAN**

No. TCG-55/619 OF 2026

T.M. KHAN, DATED: 11/09/2026

## NOTICE INVITING TENDER

EPADS Website: <https://portalsindh.eprocure.gov.pk>

Electronic bids are invited through E-PADS under the Sindh Public Procurement Rules, 2010 (as amended up to date), from eligible and qualified contractors/firms for the following works under the "ADB Scheme title 'Rehabilitation and Restoration of Darya Khan Branch Drain & its Allied Structures' (ADP No. 1055 of 2026-27). The procurement shall be conducted through National Competitive Bidding using the applicable Standard Bidding Documents (SBDs).

| S# | Name of Work                                                                                                         | Estimated Cost (PKR Million) | Bid Security (\$) | PEC Category | Tender Fee (PKR) | Completion Period |
|----|----------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|--------------|------------------|-------------------|
| 1  | Construction & Rehabilitation of 4 Nos. Structures of Darya Khan Branch Drain, Tando Muhammad Khan Drainage Division | 377.300                      | 18.8650           | C-3 or above | 5,000/-          | Months 6          |

The complete set of Bidding Documents can be obtained and shall be submitted through E-PADS as per below schedule. Bidding Documents containing detailed terms and conditions are available at website: <https://portalsindh.eprocure.gov.pk>.

### BIDDING SCHEDULE

| S# | Particulars                                                                                                          | 1st Attempt                   | 2nd Attempt (if re-tendering becomes necessary) |
|----|----------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------|
| 1  | Last date of receipt of application and issuance of tenders after publication of the NIT in Newspaper up to 11.00 AM | 16-10-2026<br>at 11:00 AM     | 02-11-2026<br>at 11:00 AM                       |
| 2  | Tender will be received back up to 11.00 AM and opened on the same day at 12.00 (Noon)                               | 16-10-2026<br>at 12:00 (Noon) | 02-11-2026<br>at 12:00 (Noon)                   |

Method of Procurement: Single Stage - Two Envelope Procedure (National Competitive Bidding)

### ELIGIBILITY - MANDATORY

|     |                                                                                                                                                                                                                                                                                                             |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Valid registration with the Pakistan Engineering Council (PEC) in the category stated against the relevant work, valid for the current financial year, together with the specialized codes appropriate to the nature of the work as specified in the bidding documents.                                     |
| 2.  | Experience of similar nature of works for last two years of BOP of the estimated cost OR two works of 50% of the estimated cost executed during last five years as required duly supported with completion certificate, certified copies of Detailed Working Estimate, Bill evaluation report, and SPRA ID. |
| 3.  | Detailed (Bio Data) of key Engineering and Technical personnel proposed for the work, including qualifications and relevant experience, as required in the bidding documents.                                                                                                                               |
| 4.  | Annual turnover of at least equal to estimated cost, in the last 5 years i.e. 2021-22, 2022-23, 2023-24, 2024-25, 2025-26, turnover will be evaluated from annual returns and Audit Reports. Annual Income Tax returns of the last Five Years i.e. 2021-22, 2022-23, 2023-24, 2024-25, 2025-26.             |
| 5.  | Annual audited reports of the last five years (2021-22, 2022-23, 2023-24, 2024-25, 2025-26) from ICAP registered audit firm. Audit reports issued by other than ICAP registered audit firms will not be accepted.                                                                                           |
| 6.  | List of essential construction machinery and equipment, with evidence of ownership, lease, rental, or assured access, as permitted by the bidding documents.                                                                                                                                                |
| 7.  | At least 40% or more annual average balance is required in the last 05 years (2021-22, 2022-23, 2023-24, 2024-25, 2025-26) to the estimated cost of work applied. Fresh Bank certificate (in original) must be attached, stating the annual average balance for the given period.                           |
| 8.  | Evidence of financial resources / access to credit facilities and bank statements for the period specified in the bidding documents. Any minimum financial capacity requirement shall be stated in the bidding documents.                                                                                   |
| 9.  | Valid NTN / registration with the Federal Board of Revenue and active taxpayer status, where applicable.                                                                                                                                                                                                    |
| 10. | Valid registration with the Sindh Revenue Board (SRB), where applicable.                                                                                                                                                                                                                                    |
| 11. | Each page of the technical proposal must be numbered and stamped by the owner of the firm / company along with its stamp.                                                                                                                                                                                   |
| 12. | Bid security in shape of Call Deposit/Bank Guarantee will be accepted. (As mentioned above for each work)                                                                                                                                                                                                   |
| 13. | The bidder shall not be debarred or blacklisted from participation in public procurement under the applicable law, rules or regulations. A declaration/undertaking to this effect shall be furnished in the prescribed form.                                                                                |
| 14. | All information and documents submitted with the bid shall be authentic and verifiable. False, forged, or materially misleading information may result in rejection and further action under the applicable procurement law and regulations.                                                                |

### SINGLE STAGE - TWO ENVELOPE PROCEDURE

|    |                                                                                                                                                                                                                          |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a. | Each bid shall comprise one package containing two separate proposals: a Technical Proposal and a Financial Proposal, submitted/identified through E-PADS in the prescribed manner.                                      |
| b. | Initially, only the Technical Proposal shall be opened and evaluated against the criteria stated in the bidding documents, without reference to price.                                                                   |
| c. | No material amendment to a Technical Proposal shall be permitted during evaluation. Clarifications may be sought only to the extent permitted under the SPP Rules and shall not alter the substance or price of the bid. |
| d. | Financial Proposals of technically qualified bidders shall be opened publicly / through E-PADS on the date and time communicated to the qualified bidders in advance.                                                    |
| e. | Financial Proposals of technically non-responsive bidders shall remain unopened / be dealt with through E-PADS in accordance with the applicable procedure.                                                              |
| f. | Award shall be made to the Most Advantageous Bid, determined strictly in accordance with the evaluation criteria and the SPP Rules, subject to approval by the competent authority.                                      |

### GENERAL TERMS & CONDITIONS

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Bids received after the prescribed deadline shall not be accepted by E-PADS / shall be treated in accordance with the applicable electronic procurement procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2.  | Bidding documents and other terms and conditions can be seen or downloaded from the official website of SPRA/E-PADS i.e. <a href="https://portalsindh.eprocure.gov.pk">https://portalsindh.eprocure.gov.pk</a> . Downloaded documents shall be enclosed with a pay order of Rs.5000/- (Non-refundable). The tender fee amounts to PKR Rs. 5000/- and the bid security against work in the shape of a Bank Guarantee or Call Deposit from any scheduled bank of Pakistan in favor of the Executive Engineer, Tando Muhammad Khan Drainage Division, Tando Muhammad Khan on account of (Name of firm) should be attached with the Technical Bid, otherwise such tenders will not be entertained. |
| 3.  | The Technical Proposal and Financial Proposal, together with all required supporting documents, shall be clearly scanned and uploaded electronically through the E-Pak Acquisition and Disposal System (E-PADS) on or before the prescribed bid submission deadline. Only bids submitted electronically through E-PADS within the stipulated time shall be considered. Bids submitted by any other means or after the specified deadline shall not be entertained.                                                                                                                                                                                                                             |
| 4.  | The Interested bidders must submit an original Bid Security in the shape of a Bank Guarantee or Call Deposit at Office of the Executive Engineer, Tando Muhammad Khan Drainage Division, Barrage Colony, Tando Muhammad Khan on or before the last fixed date & time and copy of the same should be uploaded on SPRA/E-PAD website. Failing which, the bid shall be rejected.                                                                                                                                                                                                                                                                                                                  |
| 5.  | In accordance with the established protocols, if a bid is not reflected in the bid opening list in E-PADS, it shall be deemed and treated as a "bid not submitted". Therefore, all participants are advised to verify the inclusion of their submissions in the bid opening list to avoid any misinterpretations regarding their bid status.                                                                                                                                                                                                                                                                                                                                                   |
| 6.  | The bid validity period shall be 90 days from the deadline for submission of bids, unless otherwise stated in the bidding documents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 7.  | The Procuring Agency may seek clarifications of a bid in accordance with the SPP Rules; however, no bidder shall be permitted to alter the substance or price of its bid after the submission deadline.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 8.  | The Procuring Agency reserves the right to reject all bids or proposals at any time prior to the acceptance of a bid or proposal, subject to the Sindh Public Procurement Rules, 2010 (as amended up to date), including recording and communicating the reasons as required by the Rules.                                                                                                                                                                                                                                                                                                                                                                                                     |
| 9.  | If the scheduled opening day is declared a public holiday or the opening cannot take place for a reason recognized under the applicable procurement procedures, the matter shall be handled in accordance with SPRA/E-PADS requirements and the revised date/time, where required, shall be communicated through the prescribed channel.                                                                                                                                                                                                                                                                                                                                                       |
| 10. | Place for required and physical proceedings, where required: Office of the Executive Engineer, Tando Muhammad Khan Drainage Division, Barrage Colony, Tando Muhammad Khan. Telephone: 022 2541733.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 11. | In case of any inconsistency between this NIT and the bidding documents, the applicable SPP Rules and the bidding documents issued through E-PADS shall govern.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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**EXECUTIVE ENGINEER  
T.M. KHAN DRAINAGE DIVISION  
T.M. KHAN**



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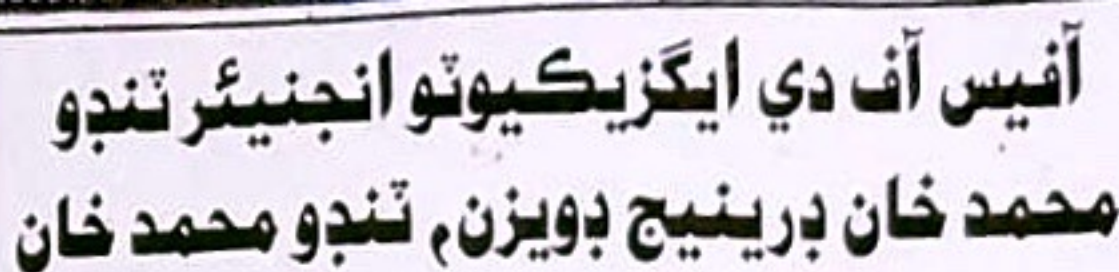
# ڪاوش

روزانه

(جلد 37) اربع 16 سيپٽمبر 2026 ع مطابق 03 ربيع الثاني 1448 هـ (شمارو 44) قيمت 40 روپيا

Wednesday, 16 September, 2026





2026-09-11 | کتبہ محمد خان خانان

EPADS Website: <https://portalsindh.eprocure.gov.pk>

| نمبر | طرح جواز کار                                                                  | حصصی لاڳت (PKR ملین) | پرائی سیکیورڈی لاڳت | PEC صلاحیت ڳڻ | قیمت در فی | مشکل ٿیڻ جو رستو |
|------|-------------------------------------------------------------------------------|----------------------|---------------------|---------------|------------|------------------|
| 1    | دریا خان پراجیکٹ تھرو محمد خان پراجیکٹ درخت جي 4 عدد اسٽرکچر جي تعمير ۽ بحالي | 377.300              | 18.8650             | C-3 پا مٿي    | 5,000/-    | 6 مهينا          |

**بہولی جوشید یول**

| نمبر | تفصيل                                                                                      | پهرين ڪوشش                  | ٻي ڪوشش (جيڪڏهن پهرين ڪوشش ڪامياب نه ٿي) |
|------|--------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------|
| 1    | نمار و NIT جي اشاعت کان پوءِ درخواست وصول ڪرڻ ۽ ٿيندڙ جاري ڪرڻ جي آخري تاريخ صبح 11.00 وڳي | 2026-10-16 صبح 11.00 وڳي    | 2026-11-02 صبح 11.00 وڳي                 |
| 2    | ٿيندڙ صبح 11.00 وڳي تڪڙن واپس وصول ڪيا ويندا ۽ ساڳئي ڏينهن منجهند 12.00 وڳي کولبا ويندا    | 2026-10-16 منجهند 12.00 وڳي | 2026-11-02 منجهند 12.00 وڳي              |

**اهلیت / لازمی شرط**

|    |                                                                                                                                                                                                                                                                                               |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | لاڳاپيل طور جي سامهون ڄاڻايل حقيقيگري و پاڪستان انٽرنيٽنگ ڪنٽرول (PEC) سان ملندڙ مالي سال 7، صحيح رجسٽريشن گڏوگڏ طور جي نوعيت مطابق ٻولي دستاويزن و ڄاڻايل Specialized Codes لازمي آهن                                                                                                        |
| 2  | ساڳئي نوعيت جي طبقن جو تحرير لازمي آهي، يعني گذريل پنجن سالن دوران دعويٰ لاڳت جي گهٽ و گهٽ 80 سيڪڙو جو مفاد طور يا دعويٰ لاڳت جي 50 سيڪڙو جا ٻه طور مستقل طيل معي جي سال Detailed Working Estimate، Completion Certificate، معي جي تفصيل تيل ڄاڻايل، SPRA ID ۽ Bid Evaluation Report شامل معي |
| 3  | طور 7، تحريري طيل نمبر انٽرنيٽنگ و انٽرنيٽنگ عملي جا تفصيل (Bio Data)، ڄاڻايل و لاڳاپيل تحريري سميت، ٻولي دستاويزن جي گهرجن مطابق مهيا طيا وڃن                                                                                                                                                |
| 4  | گذريل پنجن سالن يعني 2021-22، 2022-23، 2023-24، 2025-25 و 2026-25 دوران ساليانو ٽن فوري گهٽ و گهٽ دعويٰ لاڳت جي برابر معي گهرجي، ٽن فوري جو حڪم سالياني ريشري و آيت رجسٽري مان ورتو ويندو، گذريل پنجن سالن جا ساليانو انٽرنيٽنگ رجسٽري گهريل آهن.                                             |
| 5  | گذريل پنجن سالن 2021-22 کان 2025-26 تائين CAP رجسٽري آيت فرم جوڻ سالياني آيت رجسٽري لازمي آهن. CAP کان سواءِ ٻي غير مستر آيت فرم جوڻ جاري طيل رجسٽري قبول نه طيون ويندو.                                                                                                                      |
| 6  | ضروري تعميراتي مشينري و سامان جي فهرست، مطابقت آيت طريقي يا يقيني آئيني جي تحت سان ٻولي دستاويزن و اجازت مطابق مهيا طئي وڃي.                                                                                                                                                                  |
| 7  | گذريل پنجن سالن دوران درخواست طيل طور جي دعويٰ لاڳت جي مقابلي و گهٽ و گهٽ 40 سيڪڙو يا واپاءِ سالياني سراسري شدت پيلس لازمي آهي، ڄاڻايل عرصي جو سالياني سراسري پيلس طاهر ڪندڙ تازو اصل شدت سرٽيفڪيٽ لازمي گهرو وڃي.                                                                            |
| 8  | مالي وسيلن / طريقيات سهولتن تائين رسائي جا تحت و ٻولي دستاويزن و ڄاڻايل عرصي جا شدت آئيني سميت مهيا طيا وڃن گهٽ و گهٽ مالي صلاحيت جي طلاء گهرج ٻولي دستاويزن و ڄاڻايل هوندي.                                                                                                                  |
| 9  | ايفيل بورڊ آف روينيو سان صحيح / NTN رجسٽريشن و جتي لاڳو معي Active Taxpayer Status لازمي هوندي.                                                                                                                                                                                               |
| 10 | جتي لاڳو معي سنڌ روينيو بورڊ (SRB) سان صحيح رجسٽريشن لازمي هوندي.                                                                                                                                                                                                                             |
| 11 | ٽيڪسٽيل پروسيسنگ جي هر صفحي کي نمبر ڏنو وڃي و فرم / طعمي جي رابطو طرزان مهر سميت تفصيل طئي وڃي.                                                                                                                                                                                               |
| 12 | ٻولي سيڪيورٽي Call Deposit/Bank Guarantee جي صورت و قبول طئي وڃي، جڏهن هر طور لازمي ڄاڻايل وڃي.                                                                                                                                                                                               |
| 13 | ٻولي ڏيندڙ قابل اخلاق قانونن، قاعدن يا ضابطن تحت پنجاه پروسيسر مينٽ و حصو وٺڻ کان Debarred يا Blacklisted معي ٽن سلسلي و مفرد فارم تي Declaration Undertaking مهيا طئي لازمي آهي.                                                                                                             |
| 14 | ٻولي سان جمع طريل سموري معلومات و دستاويز اصل و تصديق هر ڳا معي گهرجن طواري، عملي يا مادي طو گهر معي ملندڙ معلومات جي ٽيڪي و ٻولي رڌ تي سگهي ٿي و قابل اخلاق پروسيسر مينٽ قانونن و ضابطن تحت واپاءِ طواري ٿي سگهي ٿي.                                                                         |

سنگل اسٹیج - ٹوانویلیٹ پروسیجر

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|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a | هر برولي فقط پنجطبق تي مشتمل هوندي. جنهن ۾ ٻه ڳڻپ، ٻه معياري، ٻه مالياتي، ٻه مالياتي ۽ ٻه ٽيڪنيڪل Financial Proposal ۽ Technical Proposal شامل هوندا. جيڪي مقرر طريقي مطابق E-PADS تي برولي<br>صحيح/مڪمل طور تي وينا |
| b | شرعياتي طور صرف Technical Proposals کوليا ويندا ۽ قيمت جي حوالي کان سواءِ برولي دستاويزن ۾ ڄاڻايل معيار مطابق انهن جو جائزو ورتو ويندو.                                                                              |
| c | جائزتي دوران Technical Proposal ۾ ڪنهن به بنيادي اڻ مڪمل جي اعزاز نه هوندي. وضاحت صرف SPI Rules تحت اعزاز ڏئي حد تائين طلب ڪري سگهجي ٿي ۽ ان سان برولي جي<br>مڪمل نوڪريت يا قيمت تبديل نه ٿيڻ گهرجي.                 |
| d | ٽيڪنيڪل طور عمل برولي آڻيندڙن جا Financial Proposals برولي طور / E-PADS ذريعي مقرر تاريخ ۽ وقت تي کوليا ويندا جنهن جي عمل برولي آڻيندڙن کي اڳواٽ اطلاع ڏني ويندي.                                                    |
| e | ٽيڪنيڪل طور Non-Responsive برولي آڻيندڙن جا Financial Proposals کوليا ويندا / قابل اطلاع طرفين مطابق E-PADS ذريعي انهن سان تسير ڪيو ويندو.                                                                           |
| f | ٽيڪنيڪل طور Most Advantageous Bid کي ڏنو ويندو جنهن جو تعين SPI Rules ۽ Evaluation Criteria مطابق ۽ معيارن جي حوالي سان ڪيو ويندو.                                                                                   |

عام شرط ضابطہ

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| 1  | مقرر آہری وقت کان ہر وصول ٹیل بولیوں E-PADS طرفان قبول نہ کیوں ویندیں / لیکن سان قابل قبول کیوں نہ کیوں                                                                                                                                                                                                                                                                                                                                                                       |
| 2  | ہولی دستاویز ہر شرطوں و ضابطا SPPRA/E-PADS می سرکاری ویب سائٹ دان آہی یا بولن لوہ کھری سگھن تا بولن لوہ خطی دستاویز سان Rs. 5,000/- (پانچ لاکھ روپے) جو Pay Order شامل کیوں ویندے۔ تینہر فی - PKR Rs. 5,000/- آہی و خطہ لاء Bid Security پاکستان می کھن Scheduled Bank می Bank Guarantee یا Call Deposit می صورت و Technical Bid سان کھن لازمی آہی بی صورت و تعزلی تینہر تی غور نہ کیوں ویندے۔ Executive Engineer, Tando Muhammad Khan Drainage Division, Tando Muhammad Khan |
| 3  | Financial Proposal و Technical Proposal سمون گھریل معارف دستاویز سبب واضح طور اسطین کھری مقرر آہری تاریخ کان آگ E-PADS می کھن بیضرائفہ طریق سان لہوہ خطا وچن صرف مقرر وقت قدر E-PADS می جمع کھریل بولیوں تی غور کیوں ویندے۔ Office of the Executive Engineer, Tando Muhammad Khan Drainage Division, Barrage Colony, Tando Muhammad Khan                                                                                                                                      |
| 4  | شخصی و کھن بولی ڈیٹنڈ اصل Bid Security یا Bank Guarantee یا Call Deposit می صورت و Muhammad Khan Drainage Division, Barrage Colony, Tando Muhammad Khan مقرر آہری تاریخ و وقت کان آگ جمع کھریل بولی تی کھن SPPRA E-PAD ویب سائٹ تی لہوہ خطا بی صورت و بولی ود کھن ویندے۔ Bid Not Submitted سمون گھریل                                                                                                                                                                         |
| 5  | مقرر طریقہ کار مطابق میضرائفہ خطا بولی E-PADS می Bid Opening List و طائر نہ کھن تان کی "Bid Not Submitted" سمون گھریل کھن شریعت کھن کی صلاح آہی تی نہ کھن جمع کھریل بولی می Bid Opening List و موعودگی می تصدیق کھن                                                                                                                                                                                                                                                           |
| 6  | جانی می Validity Period بولیوں جمع کھریل می آہری تاریخ کان 90 ڈینہر ہونڈے۔ جیستکین بولی دستاویز و بی صورت و نہ جاناہل می                                                                                                                                                                                                                                                                                                                                                      |
| 7  | SPP Rules, Procuring Agency مطابق بولی بابت وضاحت طلب کھری سگھن تی تھن ہونڈے۔ جمع کھریل می آہری تاریخ کان ہر کھن ہر کھن کی پھنشی                                                                                                                                                                                                                                                                                                                                              |
| 8  | بالی می اصل بولی یا قیمت تبدیل کھن می اجازت نہ ہونڈے۔ Procuring Agency کی کھن بولی یا ہر ہولڈ می بولیٹ کان آگ کھن ہر وقت سمون گھریل بولیوں یا ہر ہولڈ و کھن ہر حق محفوظ آہی بشرطیکہ ستہ پہلے                                                                                                                                                                                                                                                                                  |
| 9  | Procuring Agency کی کھن بولیٹ ڈیٹنڈ بولی تی عمل کیوں ویندے و ضابطا مطابق سبب و طائر و کھری جاناہل وچن Opening Day می عار و موقبل ہر افغان کھن یا قابل افغان ہر ہولڈ میٹ طریقہ کار تحت کھن تسلیم لیل سبب می کھری بولیوں کوئی ممکن نہ کھن نہ                                                                                                                                                                                                                                    |
| 10 | مقرر SPPRA E-PADS می کھن مطابق سبب ویندے و جی ضروری کھن تینہر تاریخ بولن می اطلاع مقرر کھری آہی ویندے۔ معلومات و جی ضروری کھن افغان خطا وائی لاء خطہ ایس آف دی ایگن کیوں ویندے کھن محمد خان درسیج ڈیٹنڈ بشرح طائرانی تینہر محمد خان ڈیٹنڈ                                                                                                                                                                                                                                     |
| 11 | Bidding Documents و NIT می دھن ہر لہا ہر صورت و قابل افغان SPP Rules و E-PADS می جی جی جی Bidding Documents کی                                                                                                                                                                                                                                                                                                                                                                |