



**PROJECT IMPLEMENTATION UNIT
GOVERNMENT OF SINDH**

EDUCATION CITY

**REHABILITATION OF DUMLOTTEE WELL
(Well No. 09)**

TENDER DOCUMENTS

Volume - I

Conditions of Contract

August, 2025



CGD CONSULTING

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INVITATION FOR BIDS



No. _____

Date: _____

INVITATION TO BIDDERS

Name of Work:

1. Rehabilitation of Existing Structure.
2. Extraction of Tube Well
3. Complete Plumbing & Electrical Work including Electric provision from Renewable Energy (Solar) / Generator / Utility Provider

1. The Employer invites sealed bids under Single Stage-Two Envelope bidding procedure from eligible firms licensed by the Pakistan Engineering Council in Category C-3 and above, having specialization codes of CE-01, CE-04, CE-09 & CE-10, EE-11, EE-04 & BC-02. The company must be registered with FBR and SRB.
2. Tender documents containing detailed Bill of Quantity (BoQ), evaluation criteria and scope of services can be downloaded from SPPRA website <https://portalsindh.eprocure.gov.pk> through EPAD (E-Procurement) System and Education City website www.educationcity.gos.pk from 6th August, 2025 till 27th August, 2025 on or before 1400 hrs. Interested bidders are required to submit a Pay Order / Demand Draft of Rs. 5,000/- (non-refundable) in favor of "Project Implementation Unit, Education City Project" as the cost of tender documents.
3. All interested bidders must upload their Bids (Technical and Financial) via the SPPRA EPADs portal at <https://portalsindh.eprocure.gov.pk>. Financial proposals must be accompanied by a bid security of 1% of the total bid amount (refundable) in the form of a Pay Order / Bank Draft / Bank Guarantee issued by a scheduled bank of Pakistan. The bid security should remain Valid for at least 90 days beyond the bid validity date and be made in favor of "Education City Project". Note: One hard copy of both technical and financial proposals (in separate sealed envelopes), identical to the documents uploaded on SPPRA EPADs, must be submitted along with the required bid security at the address (Project Implementation Unit, 1st Floor, Block A, FTC Building, Shahrah-e-Faisal Karachi) of the procuring agency is mandatory.
4. Bids must be uploaded via the SPPRA E-Procurement Portal on or before 1400 hrs. on 27th August, 2025 and same will be opened on same date at 1430 hrs. through SPPRA's E-pad portal. All designated committee members and interested bidders are required to be online during the opening and evaluation. Bidders who fail to appear online during the opening session will be marked as absent, and their bids will be rejected.
5. The procuring agency reserves the right to reject any or all bids as per the relevant provisions of SPPRA Rules 2010, specifically Rule 25(1). Further, any false or misleading information submitted by a firm/company/agency will result in immediate disqualification at any stage of the process.
6. Date of opening of Financial Bids of Technically qualified bidders shall be notified at later date after Evaluation of the Technical Bids.



INSTRUCTIONS TO BIDDERS (IB)



INSTRUCTIONS TO BIDDERS

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INSTRUCTIONS TO BIDDERS

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

A. GENERAL

- IB.1 Scope of Bid**
- 1.1 The Employer as defined in the **Bidding Data** hereinafter called "the Employer" wishes to receive bids for the construction and completion of works as described in these Bidding Documents, and summarized in the **Bidding Data** hereinafter referred to as the "Works".
- 1.2 The successful Bidder will be expected to complete the Works within the time specified in the **Bidding Data**.
- IB.2 Source of Funds**
- 2.1 The Employer has applied for/received a funding from the source(s) in various currencies towards the cost of the project specified in the **Bidding Data** and it is intended that part of the proceeds of this funding will be applied to eligible payments under the Contract for which these Bidding Documents are issued.
- IB.3 Eligible Bidders**
- 3.1 The Pre-Qualified firms are eligible for participating in the bid for the project.



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| IB.4 Eligible Materials, Equipment and Services | 4.1 All materials, equipment and services to be supplied under this Contract shall have their origin in eligible countries described under paragraph 4.4 hereunder. |
| | 4.2 For purpose of this Clause, "origin" means the place where the Goods are mined, grown or produced or from where the ancillary services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components. |
| | 4.3 The origin of Goods and Services is distinct from the nationality of the Bidder. |
| IB.5 One Bid per Bidder | 5.1 Each Bidder shall submit only one Bid either by himself, or as a partner in a joint venture. A Bidder who submits or participates in more than one Bid (other than alternatives pursuant to Clause IB.17) will be disqualified. |
| IB.6 Site Visit | <p>6.1 The Bidders are advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. All cost in this respect shall be at the Bidder's own expense.</p> <p>6.2 The Bidders and any of their personnel or agents will be granted permission by the Employer to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the Bidders, their personnel and agents, will release and indemnify the Employer, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.</p> |

B. BIDDING DOCUMENTS

- | | |
|---|---|
| IB.7 Contents of Bidding Documents | 7.1 The Bidding Documents, in addition to Invitation for Bids, are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause IB.9: |
|---|---|



1. Instructions to Bidders;
2. Bidding Data;
3. Evaluation Criteria and Qualification Updating Forms;
4. General Conditions (GC);
5. Particular Conditions (PC):
 - Part A - Contract Data;
 - Part B - Special Provisions;
6. Specifications (SP):
 - Part A - Specific Provisions;
 - Part B - Technical Provisions;
7. Letter of Bid;
8. Schedules to Bid;
9. Standard Forms:
 - (i) Form of Bid Security;
 - (ii) Letter of Acceptance;
 - (iii) Form of Contract Agreement;
 - (iv) Form of Performance Security;
 - (v) DAAB Agreement;
 - (vi) Form of Mobilization Advance Guarantee;

10. Drawings.

- 7.2 The Bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of Bid submission will be at the Bidder's own risk. Pursuant to Clause IB.26, bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.

IB.8 Clarification of Bidding Documents, Pre-Bid Meeting

- 8.1 Any prospective Bidder requiring any clarification(s) in respect of the Bidding Documents may notify the Employer in writing at the Employer's address indicated in the Invitation for Bids. The Employer will respond to any request for clarification which he receives earlier than the period specified in the **Bidding Data**, prior to the deadline for submission of bids.
- 8.2 Copies of the Employer's response will be forwarded to all purchasers of the Bidding Documents, including a description of the enquiry but without identifying its source.



8.3

8.5

**IB.9 Amendment
of Bidding
Documents**

9.1

Any addendum thus issued shall be part of the Bidding

Such addendum shall be issued not later than number of days

C. PREPARATION OF BIDS

IB.10

10.1 The Bidders shall bear all costs associated with the preparation and submission of their respective bids and Employer will in no case be responsible or liable for the

**IB.11 Language
of Bid**

11.1 The Bid and all correspondence and documents related to the Bid exchanged by a Bidder and the Employer shall be in the



Bid language stipulated in the **Bidding Data** and Particular
furnished by the Bidders may be in any other

IB.12

**Comprising
the Bid**

- (a) submit duly filled in, signed and stamped Letter of Bid and completed Schedules to Bid as required, including priced Bill of Quantities, in accordance with Clause IB.18 hereof;



- (b) submit Bid Security in accordance with Clause IB.16 hereof;
- (c) submit alternative proposal, if permissible in accordance with Clause IB.17;
- (d) submit a written power of attorney authorizing the signatory of the Bid to act for and on behalf of the Bidder. The name and position held by each person signing the authorization must be typed or printed below the signature;
- (e) submit the Qualification Updating Forms duly filled in, signed and stamped along with requisite attachments, to establish that the Bidder continues to meet the Eligibility and Qualification Criteria set out in the Pre-Qualification Form; furnish a technical proposal taking into account the Documents and as provided in the Section various Schedule-C to Bid, Proposed Construction Schedule; Schedule-D to Bid, Method of Performing the Work; Schedule-E to Bid, List of Major Equipment; Schedule-F to Bid, Organization Chart for Supervisory Staff; and other pertinent information, such as mobilization programme, etc.

12.2 Bids submitted by a joint venture of two (2) or more firms specified in **Bidding Data**, shall comply with the following requirements:

- (a) the bid, and in case of a successful bid, the Form of Contract Agreement shall be signed by all members so as to be legally binding on all partners;
- (b) one of the joint venture partners shall be nominated as evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;
- (c) deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of Contract and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;
- (d) all partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the



Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para(b) above as well as in the Letter of Bid and in the

Form of Contract Agreement (in case of a successful bid); and

- (e) a copy of the agreement entered into by the joint venture partners shall be submitted with the bid stating the conditions under which it will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation and corresponding duties & responsibilities of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. No amendments/ modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.

- 12.3 Bidders shall also submit proposals of work methods and schedule, in sufficient detail to demonstrate the adequacy of the Bidders' proposals to meet the technical specifications and the completion time referred to in Sub-Clause IB.1.2 hereof.

IB.13 Bid Prices

- 13.1 The price and discount if any quoted by the Bidders in the Letter of Bid and in the Bill of Quantity shall conform to the requirement specified below:
- 13.2 The Bidder shall quote any discounts and the methodology for their application.
- 13.3 If bids are being invited for individual lots (contracts) or for any combination of lots, the Bidders can offer discounts for the individual lots (contracts) as well as for award of more than one Contract and shall specify in their bid.
- 13.4 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works as described in Sub-Clause IB.1.1 hereof, based on the unit rates and/or prices.
- 13.5 The Bidders shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by a Bidder will not be paid for by the Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.
- 13.6 All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to the deadline for submission of bids shall be included in the rates and prices and the total Bid Price submitted by a Bidder.



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

- 13.7 The rates and prices quoted by the Bidders are subject to adjustment during the performance of the Contract in accordance with the provisions of Sub-Clause 13.2 [Adjustments for Changes in Cost] of the General Conditions of Contract. The Bidders shall furnish the required information for the price adjustment formulae in Schedule-A to Bid, and shall submit with their bids such other requisite supporting information if required under the said Schedule.

IB.14
Currencies
of Bid and
Payment

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

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

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

For the purpose of payments, the exchange rates used in Bid preparation shall apply for the duration of the Contract.

IB.15 **Bid Validity**

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

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

IB.16 **Bid Security**

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



**IB.17 Alternative
Proposals by
Bidder**

- 16.2 The Bid Security shall be, at the option of the Bidder, in the form of Call Deposit Receipt (CDR) Pay Order or a Security issued in the prescribed form included in the Bidding Documents, by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or. The Bid Security of Joint Venture shall be in the name of Joint Venture or Lead/either Firm of the JV or in ratio of shares of the individual JV partners, submitting the bid.
- 16.3 Any Bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.
- 16.4 The Bid Securities of the Bidders except the lowest three will be returned by the Employer within twenty eight (28) days from the opening of Bids, provided a Bidder requests for the return of his Bid Security, or upon the expiry of original validity of Bid Security or as extended, whichever is earlier.
- 16.5 The Bid Security of the lowest three Bidders including the successful Bidder will be returned when the successful Bidder has furnished the required Performance Security.
- 16.6 The Bid Security may be forfeited:
- (a) if the Bidder withdraws his bid except as provided in Sub Clause IB.22.1;
 - (b) if the Bidder does not accept the correction of his Bid Price pursuant to Sub Clause IB.28.2 hereof; or
 - (c) in the case of successful Bidder, fails to furnish the required Performance Security.
- 16.7 In case of annulment, all Bids submitted and specially, Bid securities, shall be returned to the Bidders within 14 days of annulment.
- 17.1 Unless otherwise specified in the **Bidding Data**, alternative proposal(s) shall not be considered.
- 17.2 Should any Bidder consider that he can offer any advantages to the Employer by a modification to the designs, specifications or other conditions, he may, in addition to his Bid to be submitted in strict compliance with the Bidding Documents, submit any alternative proposal(s) containing (a)



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

- 17.3 Alternative proposal(s), if any, of the Bidder having submitted most advantageous Bid only may be considered by the Employer as the basis for the award of Contract to such Bidder.

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

- 18.1 Bidders are particularly directed that the amount entered on the Letter of Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.
- 18.2 All Schedules to Bid are to be properly completed and signed.
- 18.3 No alteration is to be made in the Letter of Bid nor in the Schedules thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the Bid may be rejected.
- 18.4 Each Bidder shall prepare by filling in the forms completely and without alterations one (1) original and number of copies, specified in the **Bidding Data**, of the documents comprising the Bid as described in Clause IB.12 and clearly mark them "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
- The Bidder shall also provide complete searchable PDF versions as well as Word, Excel, etc., versions of the Bid if so required in the **Bidding Data**.
- 18.5 The original of the Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder pursuant to Sub-Clause IB.12.1(d) hereof. All pages of the Bid shall be initialled and stamped by the person or persons signing the bid.
- 18.6 The Bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, or as are necessary to correct errors made by the Bidder, in which case such corrections shall be initialled by the person or persons signing the Bid.
- 18.7 Bidders shall indicate in the space provided in the Letter of Bid their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent.
- 18.8 Bidders should retain a copy of the Bidding Documents and the Bid as their file copy.
- ~~18.9 All documents executed outside Pakistan required to be submitted with the Bid must be certified by Pakistani Embassy in the respective country(ies).~~



D. SUBMISSION OF BIDS

**IB.19 Sealing
and
Marking of
Bids**

- 19.1 Each Bidder shall submit his Bid as under:
- (a) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
 - (b) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in Sub Clause IB.19.2 hereof.
- 19.2 The inner and outer envelopes shall:
- (a) be addressed to the Employer at the address provided in the **Bidding Data**;
 - (b) bear the specific identification of this bidding process as specified in the **Bidding Data**; and
 - (c) provide a warning not to open before the time and date for bid opening, as specified in the **Bidding Data**.
- 19.3 In addition to the identification required in Sub-Clause IB.19.2 hereof, the inner envelope shall indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared "late" pursuant to Clause IB.21.
- 19.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.

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

- 20.1 (a) Bids must be received by the Employer at the address specified no later than the time and date stipulated in the **Bidding Data**.
- (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of Bids. No claims will be entertained for refund of such expenses.
 - (c) Where delivery of a Bid is by mail and the Bidder wishes to receive an acknowledgment of receipt of such Bid, the Bidder shall make request for such acknowledgment in a separate letter attached to but not included in the sealed Bid envelope.
 - (d) Upon request, acknowledgment of receipt of Bids will be provided to those making delivery in person or by messenger.
- 20.2 The Employer may, at his discretion, extend the deadline for submission of Bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Employer and the Bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.



- IB.21 Late Bids**
- 21.1 (a) Any Bid received by the Employer after the deadline for submission of bids prescribed in Clause IB.20 shall be declared late, rejected and returned unopened to such Bidder.
- (b) Delays in the mail, delays of person in transit, or delivery of a Bid to the wrong office shall not be accepted as an excuse for failure to deliver a Bid at the proper place and time. It shall be the Bidder's responsibility to determine the manner in which timely delivery of his Bid will be accomplished either in person, by messenger or by mail.
- IB.22 Modification, Substitution and Withdrawal of Bids**
- 22.1 Any Bidder may modify, substitute or withdraw his Bid after Bid submission provided that the modification, substitution or written notice of withdrawal is received by the Employer prior to the deadline for submission of bids.
- 22.2 The modification, substitution, or notice for withdrawal of any Bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.
- 22.3 No Bid may be modified by a Bidder after the deadline for submission of Bids except in accordance with Sub Clauses IB.22.1 and 28.2.
- 22.4 Withdrawal of a Bid during the interval between the deadline for

E. BID OPENING AND EVALUATION

- IB.23 Bid Opening**
- 23.1 The Employer will open the Bids including withdrawals, substitution and modifications made pursuant to Clause IB.22, in the presence of Bidders' representatives who choose to attend, at the time, date and location stipulated in the **Bidding Data**. The Bidders' representatives who are present shall sign a register evidencing their attendance.
- 23.2 Envelopes marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" shall be opened and read out first. Bids for which an acceptable notice of withdrawal has been submitted pursuant to Clause IB.22 shall not be opened. Only bids that are opened and read out at Bid opening shall be considered further.
- 23.3 The Bidder's name, total Bid Price and price of any alternative proposal(s), any discounts, Bid modifications, substitution and withdrawals, the presence or absence of Bid security, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening of Bids. Only discounts and alternative proposals



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

- | | |
|--|--|
| <p>IB.24 Process to be Confidential</p> | <p>23.4 The Employer shall prepare minutes of the Bid opening, including the information disclosed to those present in accordance with the Sub-Clause IB.23.3.</p> <p>24.1 Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of Contract shall not be disclosed to Bidders or any other person not officially concerned with such process before the announcement of the result of Bid evaluation in the form of final evaluation report giving justification for acceptance or rejection of Bids which shall be done at least fifteen (15) days prior to award of Contract. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final evaluated prices and recommendations against all the Bids evaluated. Any effort by a Bidder to influence the Employer's processing of Bids or Contract award decisions may result in the rejection of such Bidder's Bid. Whereas any Bidder feeling aggrieved may lodge a written complaint not later than five (5) days after the announcement of the final evaluation report.</p> |
| <p>IB.25 Clarification of Bids</p> | <p>25.1 To assist in the examination, evaluation and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates and lump sum prices. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The request for clarification and the response shall be in writing. No change in the price or substance of the Bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with Clause IB.28.</p> <p>25.2 The Employer may, at his discretion, ask any Bidder for confirmation/submission of missing information to clarify its Bid. However, the Employer does not have an obligation to request any additional information or clarification with respect to missing or deficient information in a Bid. The Employer may reject any Bid as non-responsive if found materially incomplete, obscure, irregular or omitting any material information required to be submitted in accordance with the Bidding Documents.</p> <p>25.3 If a Bidder does not provide clarifications of its Bid by the date and time set reasonably (not less than seven (7) days) in the Employer's request for clarification, the Employer may proceed with the evaluation based on the information submitted in the Bid without waiting for the Bidder's response.</p> |



**IB.26 Examination of
Bids and
Determination
of
Responsiveness**

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

**IB.27 Nonmaterial
Nonconformities**

- 27.1 Provided that a Bid is substantially responsive, the Employer may waive any nonconformities in the Bid.
- 27.2 Provided that a Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Bid related to documentation requirements. Requesting information or



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

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

**IB.28 Correction
of
Arithmetic
Errors**

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

- (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.
- (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.
- (c) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.

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

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

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

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

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



(b) price adjustment due to discounts offered in accordance with Sub-Clause IB.23.3;

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

29.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bids' comparison.

IB.30
Abnormally
Low Bids

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

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

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

F. AWARD OF CONTRACT

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

IB.32
Award
Criteria



IB.33

33. right to annul the bidding process and reject all Bids, at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or any obligation.

IB.34

- 34.1 If the Employer, the Employer will notify the successful Bidder

~~negotiation with the Bidder having submitted most~~

Letter of Acceptance/ notification of award and its

34.4

IB.35

- 35.1 successful Bidder shall furnish to the Employers Performance Security in the form and the amount stipulated

days after the receipt of

IB.36

- 3 Performance Security under the Conditions of Contract, the Employer will notify the successful Bidder to depute its



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



BIDDING DATA (BD)



BIDDING DATA SHEET

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

Instructions to Bidders

Clause Reference

1.1. Name and address of the Employer

a. Name and address of the Employer is:

Project Implementation Unit
1st Floor, Block A, FTC Building,
Shahrah-e-Faisal, Karachi

b. Name of the Project & Summary of the Works:

Name of the Project:- "**Rehabilitation of Dumlottee Well (Well No. 09)**"

Summary of the Works :- "**Rehabilitation of Dumlottee Well (Well No. 09)**"

1.2 Time for Completion for the Works: 180 days (06 Months)

2.1 Name of the Borrower/Source of Financing/Funding Agency

The Employer has arranged funds from its own sources.

2.1 Amount and type of funding:

Not used

8.1 Time limit for clarification

All clarification may be submitted before pre bid meeting as specified in Bidding Data.

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

Project Implementation Unit
1st Floor, Block A, FTC Building,
Shahrah-e-Faisal, Karachi

Time: 14:30 Hours (02:30 PM)

Date: _____

9.3. Number of Days: 07 Days

11.1 Bid language

The same language in which the bid documents are written i.e. English language.



14.1 Bidders to quote entirely in Pak. Rupees only

15.1 Period of Bid Validity

Ninety days (90) days from the date of submission of bid

16.1 Amount of Bid Security

*Each Bidder shall furnish, as part of his bid, a Bid Security in the amount of not less than 01 % of the cost of Bid in **PKR** in the form of Pay Order / Demand Draft / Bank Guarantee from a Scheduled Bank in Pakistan.*

17.1. Alternate Proposals by Bidders

Not Allowed

18.4 Number of copies of the Bid to be completed and returned

One original and one copy

19.2 (a) Employer's address for the purpose of Bid submission

Name and address of the Employer is:

Project Implementation Unit
1st Floor, Block A, FTC Building,
Shahrah-e-Faisal, Karachi

(b) Name and Number of the Contract

19.2 "Rehabilitation of Dumlottee Well (Well No. 09)"

20.1 (a) Deadline for submission of Bids:

27th August 2025 at 1400 hours (2:00PM) at **Project Implementation Unit**, 1st Floor, Block A, FTC Building, Shahrah-e-Faisal, Karachi

23.1 Venue, time, and date of Bid opening:

27th August 2025 at 1430 hours (2:30 PM) at **Project Implementation Unit**, 1st Floor, Block A, FTC Building, Shahrah-e-Faisal, Karachi

31.2 Un-Balanced or Front Loaded Bids:

In addition of 31.1, added 31.2.

In case of unbalanced / front loaded bid, then client may exercise rate rationalization before award of work.



34.2 34.2. Deleted and added the text as below:

Negotiation with lowest responsive three bidders will be carried out for clarification of any Item in the bid and to get the most advantageous bidder for project before award.

36.1 Signing of Contract Agreement

The agreement would be made on stamp paper of value to be determined at the rate of 0.35 percent of the contract value or as determined by the Inspectorate of Stamp Duty. Cost of stamp duty would be borne by the Contractor before mobilization on site.



EVALUATION CRITERIA AND QUALIFICATION UPDATING FORMS



EVALUATION CRITERIA AND QUALIFICATION UPDATING FORMS

1. General

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

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

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

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

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

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

Award Criteria for Multiple Contracts

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

Qualification Criteria for Multiple Contracts

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

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

(a) Price Adjustment for Completeness in Scope of Work

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

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

(b) Price Adjustment for Technical/ Commercial Non Compliance

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

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



1. Introduction

The basic aim of the pre-qualification is intended to eliminate, early in procurement proceedings, constructors that are not suitably qualified to perform the contract. The pre-qualification specifically means selection of competent bidders prior to issuance of the invitations to bid. It is required for large and complex civil works contracts, turnkey contracts, and contracts for the fabrication of expensive and technically complex plant and equipment. This is to ensure that only firms with appropriate experience, a proven track record, and necessary annual turnover and that, can provide all the equipment required in a timely manner and will be only invited to submit bids. Thus assessment by an implementing agency of the suitability of firms to carry out a particular contract **prior** to being invited to submit a bid is a process called **prequalification**.

2. Sindh Public Procurement Rules 2010

When and how to engage in the pre-qualification process, is clearly explained in SPP Rules 27 & 28, 2010 and same may be referred for further guidance.

3. The Prequalification Process

4. Advertisement and Notification

The Invitation for Prequalification (IFP)/Pre-qualification notice shall be advertised in the manner explained in the SPP Rules 15, 17 & 18 of 2010.

5. Preparing and Issuing of Prequalification Document

The Procuring Agency is responsible for preparing and issuing the Prequalification Document to all interested bidders. All information and data particular to each individual prequalification process must be provided by the agency in the following sections of the Prequalification Document:

6. Section I. Instructions to Bidders (ITB);

7. Section II. Eligibility & Evaluation/Qualification Criteria;

8. Section III. Application Forms;

9. Section IV. Scope of Contract



NOTICE INVITING TENDER FOR PRE-QUALIFICATION OF CONTRACTORS

REHABILITATION OF DUMLOTTEE WELL

(Well No. 09)

- ☐ Project Implementation Unit has received funds for the Project/Scheme cited above with Scope, Estimated Cost and other details are as under:-

(i) **Scope: Rehabilitation Of Dumlottee Well no. 09 and related infra works.**

(ii) **Estimated Cost:** _____

(iii) **Project Period: 06 Months**

☐ **Eligibility:**

- a. The Employer invites sealed bids, under Single Stage-Two Envelope bidding procedure, from eligible firms licensed by the Pakistan Engineering Council valid for the year 2025 in Category C-3 and above, having specialization codes of CE-01, CE-04, CE-09 & CE-10, EE-11, EE-04 & BC-02
- b. ISO Certification 9001 & 45001
- c. Similar Projects in hand of same nature.
- d. Valid Registration with FBR & SRB.

- ☐ **Pre-qualification documents:** Interested firms/contractors can obtain the pre-qualification documents from the address mentioned below.

- ☐ Documents can be dispatched by Courier service on the written request for which cost of mail i.e. will be borne by the Applicant, however, under no circumstances the Procuring Agency will be responsible for late delivery or loss of the documents so mailed.

- ☐ **Dead line of Issuance of Documents:** Documents will be issued to interested firms up to _____.



- ☐ **Dead line of Submissions:** Documents duly filled and attached with relevant certificates must reach on the address mentioned herein below on or before **2:00 PM, 2nd September 2025**.

Interested firms should submit their inquires/applications/documents to the following:

Address : **Office of the Project Director, Project Implementation Unit
1st Floor, Block-A. Finance & Trade Centre, Shahra-e-Faisal,
Karachi**

- ☐ *Procuring Agency* may reject any or all applications subject to the relevant provisions of Sindh Public Procurement Rules 2010.
- ☐ Applicants will be informed, in due course, of the result of the evaluation of applications. Only the firms or contractors prequalified under this process will be invited to bid.



Section I. Instructions to Bidders/Applicants (ITB).

Clause 1 The firm/contractor shall enclose the (one original and 02 copies) of the documents in a sealed envelope which shall:-

- a) bear the name and address of the Applicant;
- b) be delivered by hand or through courier/registered mail to address mentioned in advertisement for pre-qualification or in document; and
- c) be clearly marked "Application for "Rehabilitation of Dumlottee Well no. 09".

Clause 2 If the envelope is not sealed and marked as required, the procuring agency will assume no responsibility for the misplacement or pre-maturing opening of the document.

Clause 3 Document shall be prepared in the English language. In case of ICB, the information provided in any other language shall be accompanied by English translation also.

Clause 4 Firm/Contractor must respond to all questions and provide complete information as advised in this document. Any lapses to provide essential information may result in dis-qualification of the firm/contractor.

Clause 5 Clarification and Modification of Documents (SPP Rule 23).

Firm/Contractor, who has obtained documents, may request for clarification of contents of the bidding document in writing, and respond to such queries shall be made in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of bid.

Clause 6 Addendum: At any time prior to the deadline for submission of documents, the agency may amend the Prequalification Document by issuing addenda. Any addendum issued shall be part of the Prequalification Document and shall be communicated in writing to all who have obtained the prequalification document.

Clause 7 Deadline for submission of Documents (SPP Rule 22 & 24): Documents shall be received by the agency at the address (*mention the address & telephone & fax numbers*), not later than the (*mention the date & time*).The procuring agency may, at its discretion, extend the deadline for the submission of documents by amending the Prequalification Document, and in which case all rights and obligations of the Agency and the firms/contractors subject to the previous deadline shall thereafter be subject to the deadline as extended.

Clause 8 Evaluation (Rule 27 (2): Firm's/Contractor's general and particular experience personnel and equipment capabilities, and financial position, as demonstrated by the Applicant's responses in the prescribed forms will be evaluated as per evaluation criteria given



in the document. The Procuring Agency reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the contract. Sub-contractor's experience and resources shall not be taken into account in determining the firm/contractor compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of firms will be considered for similar treatment as in case of Joint Venture.

Clause 9 Clarification of Prequalification Information (Rule 43): To assist in the evaluation of information, the agency may, at its discretion, ask any firm/contractor for a clarification of any information which shall be submitted within a stated reasonable period of time. Any request for clarification shall be in writing. If any firm/contractor does not provide clarifications of the information requested by the date and time set in the agency's request for clarification then application of the firm/contractor may be rejected.

Clause 10 Verification of Prequalification Information (Rule 28 (1d)): Verification of the information provided by the pre-qualified/shortlisted firms/contractors in the submissions for prequalification may be made. In case the information is found to be wrong or incorrect in any material way or firm/contractor is found to be lacking in the capability or resources to successfully perform the contract, then it shall not be pre-qualified.



5.0 Section II: Evaluation/Qualification Criteria.

1. Criteria based on Marks/Score.

Mandatory Provisions/Eligibility: Firms/Contractors must possess (i) valid registration certificate of PEC in the category **C - 03**; (ii) valid registration certificate from income tax authority (NTN); and (iii) is not black listed. *(Attach all certificates and affidavit of not black listing).*

Aggregate Qualifying Score is 60%, but it is mandatory to obtain at least 30% in each of the following sections.

(A) Company Profile.

i.	Period since Firm/Contractor is in construction business	10
	Marks	
	Up to 5 years	02
	Marks	
	Up to 10 years	05
	Marks	
	Above 10 years	10
	Marks	
	<i>(Attach PEC license for each year)</i>	
ii.	Office facilities	05
	Marks	
	In Sindh province	05
	Marks	

(B) General Experience Record 35 Marks

- i. Projects of similar nature and complexity 10 Marks
completed over last 05
years.

(Attach satisfactory completion certificates)

- ii. Projects of similar nature and complexity in hand.
25 Marks (25 Marks for a project having cost of Rs.300 Million or above).
(20 Marks for a project having cost of Rs.200 Million or above)
(15 Marks for a project having cost of Rs.150 Million or above)



(10 Marks for a project having cost of Rs.100 Million or above)

(Attach copies of work orders)



(C) Personnel Capabilities required for this project**25 Marks**

Requirement of persons will vary from Project to Project. Following factors may be used as a guideline:

Sl.	Description / Position with Minimum Qualification & Experience	Marks Assigned	Remarks
1			01 Marks BE qualification upto 10 Years. 02 Marks ME with 05 years of experience after Masters. 02 Marks Registered as a Professional Engineer with PEC. 02 Marks Completion of similar nature 02 project.
2	Construction Engineer (01 No.) B.E. (Civil) registered with Pakistan Engineering Council (PEC) having experience of 10 years or above.	02	01 Marks Experience between 10-15 years. 01 Marks Completion of similar nature 02 project.
		02	01 Marks Experience between 10-15 years. 01 Marks Completion of similar nature 02 project
		02	01 Marks Experience upto 08 years. 01 Additional Marks Experience above 08 years.
5		02	01 Marks Experience upto 08 years. 01 Additional Marks Experience More than 08 years.
		02	01 Marks Experience upto 10 years. 01 Additional Marks Experience above 10 years.
		02	.01 Marks



Sr.	Description / Position with Minimum Qualification & Experience	Marks Assigned	Remarks
	DAE in Civil having relevant experience of 08 years or above.		Experience upto 08 years 01 Additional Marks Experience above 08 years.
		01	01 Marks Experience upto 15 years
9	CAD Operator (Civil) 01 DAE in Civil having relevant experience of 10 years or above.	01	01 Marks Experience upto 10 years
10		01	01 Marks Experience upto 10 year
11		02	01 Marks Experience upto 10 years 01 Additional Marks Experience of 03 similar projects.
		01	01 Marks Experience upto 03 years

(D) Equipment Capability

15 Marks

- Critical equipment and number required for the Project shall be specified by the Procuring Agency.*
- High value equipment should be an option to own, lease or hire.
- Total equipment available with the applicant is to be listed along with its current mobilization on on-going projects.
(Details are to be provided in the attached form)

(E) Financial Soundness /Status

10 Marks

For Financial Status assessment, the Applicants may be required to submit Audited Financial Statements for the last three years (22 -23 – 24) or any other document which verifies their Financial Status. Where necessary, the Procuring Agency will make enquiries with the firm's/contractor's bankers.

- Less than 15% of Estimated Cost of this Work 02 Marks
- 16 - 25% of Estimated Cost of this Work 04 Marks
- 26 - 40% of Estimated Cost of this Work 08 Marks



iv. More than 40% of Estimated Cost of this Work 10 Marks



2. Evaluation/Qualification Criteria: Based on Yes/No or Qualified/Dis-Qualified system.

Mandatory Provisions/Eligibility: Firms/Contractors must possess

- (i) valid registration certificate of PEC in the category C – 3 and above;
- (ii) Valid registration certificate from income tax authority (NTN); and is not black listed.

(Attach all certificates and affidavit of not black listing since inception of the Company)

Required Documents: It must include following information/documents:-

(A) Contractor/ have been in business of construction at least for 10 years.

(B) Experience and past performance.

- (i) Have completed Two (2) similar assignments having cost of each at least 50% of the project in the last five (5) years.
- (ii) Have executed at least one (1) project in similar geographical condition in last five (5) years.

(Attach performance certificates of completed projects).

(C) Key Personnel Qualification & Experience.

(Requirement will vary from assignment to assignment).

(i) Project Manager Qualification: BE/ME Civil

Experience: 10 Years

(ii) Construction Engineer: Qualification: BE Civil

Experience: 10 Years

(iii) Site Supervisor in Civil:
Qualification: BE / DAE Civil
Experience: 10 Years

(Brief CVs of personnel be attached).

(D) Equipment:

- (a) Critical equipment and number required for the Project shall be specified by the Procuring Agency. For guidance procuring



agency may refer to annexure-I.

- (b). High value equipment should be an option to own, lease or hire.
- (c) Total equipment available with the applicant is to be listed along with its current mobilization on on-going projects.

(Details are to be provided in the attached form)



(E) Financial:

- (i) Documentary evidence of financial position, bank statement or audited accounts of the last Three (3) years.
- (ii) Average Annual turnover of the last three years should not be less than Thrice the cost of work.

(F) Any other information:

Any other document/information desired by procuring agency which shall not discriminate among contractors/firms.

Contractors/firms who fail to qualify in any of the above sections shall be disqualified from the prequalification process.



6.0 Section III. Application Forms;

A-1 Application Submission Form *(The covering letter is to be submitted by the interested firm/contract or partner responsible for a joint venture, on appropriate company letterhead)*

Date: _____

To _____

[Name and address of the Procuring Agency]

Dear Sir,

Subject: Pre-qualification of Contractors for Construction of Infrastructure Works.

I the undersigned, being duly authorized to represent and act on behalf of..... applies to be prequalified for the project cited above and enclose one **(01) original with 02 copies** of pre-qualification documents and declare the following:

- (a) I have examined and have no reservations to the Prequalification Document, including Addenda No(s) , issued in accordance with ITB Clause 6.
- (b) I understand that Procuring Agency may cancel the prequalification process at any time and that Procuring Agency is not bound either to accept any application that it may receive or to invite the prequalified applicants to bid for the contract subject of this prequalification, without incurring any liability to the Applicants.
- (c) Bids by prequalified applicants will be subject to verification of all information submitted for prequalification at the time of bidding;
- (d) Agency reserves the right to amend the scope and value of any contract under this project; in such event bids will only be called from prequalified bidders who meet the revised requirements;

- 2.** The Procuring Agency and its authorized representative(s) may contact the following person(s) for further information, if needed;



Person to be contacted: Project Director, Project Implementation Unit 1st Floor, Block-A,
Finance & Trade Centre, Shahra-e-Faisal, Karachi

3. The undersigned declares that the statements and the information provided are complete, true, and correct in every detail.

PROJECT DIRECTOR
Project Implementation Unit
1st Floor, Block-A, Finance & Trade Centre
Shahra-e-Faisal, Karachi



A-II

1. Company Profile

Date: -----

Contract: -----

All individual firms and each partner of a joint venture applying for prequalification are requested to complete the information in this form.

1.	Name of firm (legal): <i>(In case of Joint Venture (JV), legal name of each partner:</i>	
2.	Nature of Business: <i>(Whether the firm is a Corporation, Partnership, Trust etc.) (In case of Consortium; whether the Lead Consortium Member is a Corporation, Partnership, Trust etc.)</i>	
3.	Head Office Address:	
4.	Telephone Fax numbers: E-mail address:	
5.	Place of Incorporation/Registration: Year of incorporation/registration:	
6.	Applicant's authorized representative: Telephone Fax numbers: E-mail address:	
7.	<u>NATIONALITY OF OWNERS.</u>	
	Name:	Country:



A-III

2. General Experience Record

- (i) **Details of Contracts of Similar Nature and Complexity completed over the last 05 years**

Sr. No.	1	2	3	4	5
Name of Contract:					
Country:					
Name of Procuring Agency With Address, Tele, Fax.					
Value of the total contract in Pak/Rs:					
Date of Award:					
Date of Completion					



(ii) Projects of similar nature and complexity in hand.

Firms/ Contractors and each partner of the joint venture should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, for which Completion Certificate has yet to be issued.

Name of Contract		Name of Procuring Agency	Value of Outstanding work (Equivalent Pak Rs. Millions)	Estimated Completion Date



(iii) Projects executed in similar geographical conditions in last five (5) years.

Sr. No.	1	2	3	4	5
Name of Contract:					
Country & location					
Name of Procuring Agency With Address, Tele, Fax.					
Nature of works and special features relevant to the contract for which applied:					
Contract Role (Mention: Sole, Sub Contactor or Partner in a Joint Venture).					
Value of the total contract in Pak/Rs					
Date of Award:					
Date of Completion					



A-IV**4 (A) Personnel Capabilities**

Firm/Contractor should provide the names of suitably qualified personnel to meet the specified requirements stated in Section 3 (Evaluation and Qualification Criteria).

Sr. No.	Title of Position	Name
1		
2		
3		
4		
5		



A-V

The data regarding experience of the personnel mentioned at A-IV should be supplied separately using the Form below.



4(B) Curriculum Vitae (CV) for Proposed Experts

1. Proposed Position: _____

2. Name of Expert: _____

3. Name of Firm: _____

4. Current Residential Address: _____

Telephone No: _____ Fax No: _____

E-Mail Address: _____

5. Date of Birth: _____ Citizenship: _____

6. Qualification: _____

7. **Work Experience:** Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company / Project / Position / Relevant technical and management experience



A-VI

5. Firm/Contractor shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment whether owned/ leased/ rented listed in Section 3 (Evaluation and Qualification Criteria).

A. Equipment Capabilities (owned by the contractor/firm)

Sr. No.	Name of Equipment	Name of manufacturer	Model and power rating	Capacity		Current location
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						



B. Equipment Capabilities (leased/ rented by the contractor/firm)

Sr. No.	Name of Equipment	Mention whether leased or rented	Name of owner	Address of owner	Contact name and title with Telephone Fax & E Mail of the owner	Agreements Details of rental / lease / manufacture agreements specific to the project
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						



A-VII**6. Financial Resources.****A. Banker's Information:**

Sr. NO.	Name & Address of Bank	Contact name and title	

B. Financial Status: Summarize actual assets and liabilities in Pak Rupees for the previous three years.

Information from Balance Sheet/ Income Statement	Year 1:	Year 2:	Year 3:
1.Total Assets (TA)			
2.Total Liabilities (TL)			
3. Current Assets (CA)			
4. Current Liabilities (CL)			
5.Total Revenues (TR)			
6.Profits Before Taxes (PBT)			
7. Profits After Taxes (PAT)			



- C. **Source of Financing:** Contractor/ Firm shall provide documentary evidence for funding the project for which prequalification is being undertaken.



Section IV. Scope of Contract: *(Description of works and Period of completion)*



Annexure - I

(Procuring agency may opt types of equipment and their number as per requirement of project. It may also add any equipment as per requirement.)

- (i) Earth Moving Machinery
- (ii) Earth Drilling, Boring Machine with allied accessories
- (iii) Concrete Batching Plant (30cuM/hr Cap.)
- (iv) Shuttering (form work) --- sq ft
- (v) Concrete Pumps
- (vi) Vibrator
- (vii) Crane Mobile (30 Ton Cap.)
- (viii) Dumper Trucks
- (ix) Shower/ Loader/ Backhoe
- (x) Steel cutting & Bending Machine
- (xi) Concrete Transit Mixer (6 cu M/hr)
- (xii) Cabin Hoist (1500 Kg Cap.)
- (xiii) Air Compressor (15 HP Cap.)
- (xiv) Scaffolding Pipe

Note: The following formula is applicable to evaluation criteria based on marks/score only.

- a. *If the available quantity of each equipment is less than specified limit, give weightage as under:*

$$T = M \times (A / \text{Required Quantity})$$

- b. *If the available quantity of each equipment is more than the minimum equipment requirement full marks will be given.*

*A = Available quantity of each
equipment of each Item. T = Marks
obtained
M = Marks assigned*



**LETTER OF BID
AND
SCHEDULES TO BID**



LETTER OF BID

Bid Reference No. _____

[Name of Contract/ Works]

To: _____

Gentleman,

1. Having examined the Bidding Documents including Instructions to Bidders, Bidding

Data, _____ for the execution of
~~Conditions of Contract, Specifications, Schedules of Bidding, Bill of Materials, Works~~
and remedy any defects therein in conformity with the said Bidding Documents and
Addenda for the sum of Equivalent PKR _____ (Eq. Pak Rupees

_____) or such other sum as may be
ascertained in accordance with the said conditions.

2. We meet the eligibility requirements in accordance with IB.3.

3. We, including any Subcontractors for any part of the Contract, are not debarred/ blacklisted
by the Employer, any Government/Semi Government/Public Department in Pakistan or
foreign

- country, international organizations or other foreign institutions.

4. Our subcontractors or suppliers for any part of the Contract, if any, shall have nationalities
from
eligible countries, in accordance with IB.4.4.

5. We understand that all the Schedules attached hereto form part of this Bid.

6. As security for due performance of the undertakings and obligations of this Bid, we
submit _____ (Pak. Rupees.

herewith a Bid Security in the amount of PKR _____ in your favour or made payable to you
and valid for a period of _____ days beginning from the date Bids are opened.

7. We undertake, if our Bid is accepted, to commence the Works and to complete the whole of the
Works comprised in the Contract within the time stated in Contract Data.

8. We agree to abide by this Bid for the period of _____ days, inclusive of 14 days beyond
Bid validity period (as mentioned at Sr. No. 6 above) and it shall remain binding upon us
and may be accepted at any time before the expiration of that period.

9. 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.

10. We do hereby declare that the Bid is made without any collusion, comparison of figures or
arrangement with any other Bidder for the Works.

11. We understand that you are not bound to accept the lowest or any Bid you may receive.

12. We undertake that all the information and documents submitted with the Bid are genuine,
and in case of incorrect information of fake documents we shall be liable for punitive
action



Dated this _____ day of _____ 20_____

Signature: _____

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

(Name of Bidder in Block Capitals)
(Seal)

Address: _____

Witness:

Signature: _____

Name: _____

Address, _____

Occupation _____



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 as given in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
3. The rates and prices as given in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore, all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
4. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
5. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works, or the same shall be determined by the Engineer in accordance with Clause 13, General Conditions.
6. General directions and description of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the Bidding
7. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 13.4 of General Conditions of Contract.
8. The following abbreviations for units have been used in Bill of Quantities:

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



BILL OF QUANTITIES
(Sample)

B. Work Items:

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

Bill No. 1 - Civil Works

Bill No. 2 - Construction of Lake Reservoir

Bill No. 3 - Tube Well

Bill No. 4 - Electrical Works

Summary of Bill of Quantities

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



BILL OF QUANTITIES

Bill No. 2 Earthworks

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

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



BILL OF QUANTITIES

Bill No. 3 Culverts and Bridges

[illegible]

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



BILL OF QUANTITIES

Bill No. 4 Subsurface Drains

[illegible]

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



BILL OF QUANTITIES

Bill No. 5 Miscellaneous Items

Item	Description	Technical Provisions Ref.	Unit	Quantity	Rate		
					PKR in figures	PKR in words	
	2	3	4	5	6		7
501							
502							
503							
504							
505							
506							

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



BILL OF QUANTITIES

Summary

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

Note: All Provisional Sums are to be expended in whole or, in part at the direction and discretion of the Engineer in accordance with Sub-Clauses 13.4 of the General Conditions except with respect to DAAB fees and the expenses in accordance with GC Clause 21.



CONSTRUCTION SCHEDULE

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

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

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



METHOD OF PERFORMING THE WORK

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

1. Organization Chart:

Shall indicate head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.

2. Mobilization:

In Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.

3. Method of executing the Works:

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



LIST OF MAJOR EQUIPMENT

[The Bidder will provide on Sheet E-2 of this Schedule a list of all major equipment and related items, under separate heading for items owned, to be purchased or to be arranged on lease by him to carry out the Works. The information shall include make, type, capacity, and anticipated period of utilization for all equipment.

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



LIST OF MAJOR EQUIPMENT

Owned, Purchased or Leased

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



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



LIST OF SUBCONTRACTORS

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

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

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



ESTIMATED PROGRESS PAYMENTS

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

Quarter	Amounts (1,000 PKR)
	2
1 st	
2 nd	
3 rd	
4 th	
5 th	
6 th	
7 th	
8 th	
9 th	
Bid Price	



CONSTRUCTION CAMP AND HOUSING FACILITIES

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

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

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

Note:

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



INTEGRITY PACT
DECLARATION OF FEES, COMMISSION AND BROKERAGE, ETC.
PAYABLE BY THE BIDDERS/CONTRACTORS OF GOODS, SERVICES & WORKS IN
CONTRACTS WORTH PAK. RS. 10.00 MILLION OR MORE

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

..... [Name of Bidder/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 Pakistan (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoP through any corrupt business practice.

Without limiting the generality of the foregoing, [Name of Bidder/ 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 GoP, except that which has been expressly declared pursuant hereto.

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

[Name of Bidder/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 GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Bidder/Contractor] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Bidder/Contractor] as

Name of Employer:
Signature:
[Seal]

Name of Bidder/Contractor:
Signature:
[Seal]



STANDARD FORMS



FORM OF BID SECURITY

Security Executed on _____
(Date)

Expiry on _____
(Date)

Name of Surety with Address: _____

Name of Principal (Bidder) with Address _____

Penal Sum of Security PKR _____ (Pak Rupees _____)

Bid Reference No. _____

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

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

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

- (1) WHEREAS, the Employer has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum to the Employer, conditioned as under: that the Bid Security shall remain in force for a period fourteen (14) days beyond the Bid Validity date i.e., upto _____.
- (2) that the Bid Securities of the Bidders except the lowest three will be returned by the Employer within twenty eight (28) days from the opening of Bids, provided a Bidder request for the return of its Bid Security, or on the expiry of original validity of Bid Security or as extended, whichever is earlier;
- (3) that the Bid Security of the lowest three Bidders comprising the successful Bidder will be returned when the successful Bidder has furnished the required Performance Security; and
- (4) that in the event of failure of the successful Bidder to furnish the required Performance Security, the entire said sum be paid immediately to the said Employer pursuant to IB.16 and

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



BS2

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

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

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

SURETY
(Schedule Bank/Insurance Company)

WITNESS:

Signature _____

1. _____

Name

Corporate Secretary (Seal)

Title _____
Corporate Guarantor (Seal)

2. _____

Name, Title & Address



FORM OF PERFORMANCE SECURITY

Guarantee No. _____

Executed on _____

Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor with address: _____

Name of Principal (Contractor) with address: _____

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

Letter of Acceptance No. _____ Dated _____

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

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____

(Name of Contract) for the _____

(Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the

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

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if we, _____ (the Guarantor), waiving all objections and defense under the Contract, do hereby irrevocably and independently guarantee to p to the Employer without delay upon the Employer's first written demand without cavil or argument



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

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

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

Guarantor

(Schedule Bank/ Insurance Company)

WITNESS:

Signature _____

1. _____

Name

Corporate Secretary (Seal)

Title _____
Corporate Guarantor (Seal)

2. _____

Name, Title & Address



FORM OF CONTRACT AGREEMENT

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

WHEREAS the Employer is desirous that certain Works,
viz.,

 should be executed by the Contractor and has accepted a
 Bid by the Contractor for the execution and completion of such Works and the

NOW this Agreement witnessed as follows:

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

The addenda/corrigenda, if any, (Excluding part relating to Instructions to Bidders
 alongwith

Bidding Data) shall be deemed to have been incorporated at the appropriate places in the

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the
 Works and remedy defects therein in conformity and in all respects with the provisions of
the
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution
and

 completion of the Works as per provisions of the Contract, the Contract Price or such other sum
 as may become payable under the provisions of the Contract at the times and in the
manner



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

Signature of Contactor

Signature of Employer

(Seal)

(Seal)

Signed, Sealed and Delivered in the presence of:

Witness

Witness

(Name, Title and Address)

(Name, Title and Address)



DAAB Agreement

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

Name and details of the Contract _____

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

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

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

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

("DAAB Agreement")

Whereas:

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



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

the “Other Members”; and

D. the DAAB Member accepts this appointment.

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

1. The conditions of this DAAB Agreement comprise:
 - (a) Clause 21 [*Disputes and Arbitration*] of the Conditions of Contract, and any other provisions of the Contract that are applicable to the DAAB's Activities; and
 - (b) the General Conditions of Dispute Avoidance/Adjudication Agreement, which is appended to the General Conditions of the “Conditions of Contract for Construction” Second Edition 2017 published by FIDIC (“GCs”), as amended and/or added to by
2. [Details of amendments to the GCs, if any. For example:
In the procedural rules annexed to the GCs, Rule _ is deleted and replaced by: “ ... ”]
3. The DAAB Member shall be paid in accordance with Clause 9 of the GCs. The currency of payment shall be _____.

In respect of Sub-Clauses 9.1 and 9.2 of the GCs, the amounts of the DAAB Member's monthly fee and daily fee shall be:
monthly fee _____ per month, and
daily fee of _____ per day
(or as otherwise set under Sub-Clause 9.3 of the GCs).
4. In consideration of the above fees, and other payments to be made to the DAAB Member in accordance with the GCs, the DAAB Member undertakes to act as DAAB Member in
5. The Employer and the Contractor shall be jointly and severally liable for the DAAB Member's
6. This DAAB Agreement shall be governed by the law of _____ (if not stated, the law that governs the Contract under Sub-Clause 1.4 of the Conditions of Contract).



SIGNED by: _____ SIGNED by: _____ SIGNED by: _____

Print name: _____ Print name: _____ DAAB Member

Title: _____ Title: _____ Title: _____

for and on behalf of the
Employer

for and on behalf of the
Contractor

in the presence of

in the presence of

in the presence of

Witness: _____ Witness: _____ Witness: _____

Name: _____ Name: _____ Name: _____

Address: _____ Address: _____ Address: _____

Date: _____ Date: _____ Date: _____



FORM OF MOBILIZATION ADVANCE GUARANTEE/ BOND

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'Employer')
has entered into a Contract for _____
(Particulars of Contract)
with _____ (hereinafter called the "Contractor").

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

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

AND WHEREAS, _____

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

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

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

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

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

This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made by the Contractor is fully adjusted against payments from Interim



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

Guarantor
(Scheduled Bank/ Insurance Company)

WITNESS:

Signature _____

1. _____

Name _____

Corporate Secretary (Seal)

Title _____

Corporate Guarantor
(Seal)

2. _____

Name, Title & Address



CONDITIONS OF CONTRACT



CONDITIONS OF CONTRACT

The Conditions of Contract comprise two parts:

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

General Conditions

These Conditions are the “General Conditions” which form part of the “FIDIC Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer Second Edition

(2017 Red book, Reprinted 2022 with amendments)” published by:

International Federation of Consulting Engineers

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CH-1215 Geneva 15

Switzerland

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Website: <https://fidic.org/bookshop>

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



Particular Conditions

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

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

Part A - Contract Data

Sub-Clause	Data to be Given	Data
1.1.27	Defects Notification Period (DNP):	365 days
1.1.31	Employer's name and address:	Project Implementation Unit, 1 st Floor, Block A, FTC Building, Shahrah-e-Faisal, Karachi
1.1.35	Engineer's name and address:	M/S. CGD Consulting (PVT.) LTD. 7-C, 5 th Zulfikar Commercial Street, Phase-VIII-A, DHA Karachi.
1.1.84	Time for Completion:	(180 Calendar Days) (06 Months)
1.3(d)	address of Employer for communications:	Project Implementation Unit, 1 st Floor, Block A, FTC Building, Shahrah-e-Faisal, Karachi.
	address of Engineer for communications:	M/S. CGD Consulting (PVT.) LTD. 7-C, 5 th Zulfikar Commercial Street, Phase-VIII-A, DHA Karachi.
	address of Contractor for communications:	
1.4	Contract shall be governed by the law of:	Islamic Republic of Pakistan
	ruling language:	English
	language for communications:	English
1.8	number of additional paper copies of Contractor's Documents:	05 Copies, the charges for copies shall be borne by the Contractor



2.1		As Per the Letter of Award (7 days)
2.4	Employer's financial arrangements	<i>Own Arrangements</i>
3.2 (e)(ii)	Engineer's Duties and Authority	
4.2	Performance Security (as percentage of the Accepted Contract Amount in Currencies) percent; currency:	Ten percent (10%) of Contract Amount denominated in the currency(ies) of the Contract or in a freely convertible currency acceptable to the Employer
4.2.1	List of Insurance Companies	
4.7.2	period for notification of errors in the items of reference	Fourteen (14) days
4.19	period of payment for temporary utilities	each month
5.1(a)		As per the Bidding Data and Conditions of Contract with the Consent of Client & Consultant.



Sub-Clause	Data to be Given	Data
5.1(b)	parts of the Works for which subcontracting is not permitted	-Nil- <i>[Employer to provide his requirements according to the nature and complexity of the Works or state "None"]</i>
	Normal working hours on the Site	8 Working Hours <i>[insert eight (08) hours per day under normal circumstances]</i>
8.3	number of additional paper copies of programs	3 Copies <i>[insert number of copies say three (03)]</i>
8.8 & 14.15(b)	Delay Damages payable for each day of delay	0.1% per day with max limit of 10%
8.8	maximum amount of Delay Damages	Ten percent (10%) of the Accepted Contract Amount
8.14	Applicability of Incentives for Early Completion	0.05 % Per Day maximum up to 5%
12.3	Percentage profit	Ten percent (10%)
13.4.(b)(ii)	percentage rate to be applied to Provisional Sums for overhead charges and profit	15% including taxes
14.2	total Advance Payment	Up to 10% Mobilization Advance of the Contract Amount against Bank Guarantee from any scheduled bank of Pakistan as specified in Bidding Data
14.2.1	List of Insurance Companies	



Sub-Clause	Data to be Given	Data
14.2.3	percentage deductions for the repayment of the Advance Payment	Deduction shall be made at the amortization rate of 20% of the value of the Works executed of each IPC as provided in paragraph (i) of Sub-Clause GCC 14.3, starting from 1 st IPC provided that the advance payment shall be completely repaid prior to the time when 85% of the Accepted Contract Amount.
14.3	period of payment	i. 50% (1 st installment of mobilization advance) to be issued within 15 days of Letter of Acceptance upon written request of the contractor and submission of mobilization advance) (2 nd installment of mobilization advance) to be issued within 15 days of the signing of the Contract Agreement and after mobilization at site to the
14.3(b)	number of additional paper copies of Statements	Not Required
14.3 (iii)	percentage of retention	10% from each bill
14.3 (iii)	limit of Retention Money (as a percentage of the Contract Price)	Five percent (5%)
14.6.2	minimum amount of Interim Payment Certificate (IPC)	= <i>Project Cost / No. of Months (time for completion) or as considered appropriate by the Employer for speedy completion.</i>
	period of payment of Advance Payment to the Contractor	Within 14 Days after completion CA formalities.
14.7b(i)		28 Days



Sub-Clause	Data to be Given	Data
14.7b(ii)	period for the Employer to make interim payments to the Contractor under Sub-Clause 14.13 (Final Payment)	60 Days
14.7(c)	period for the Employer to make final payment to the Contractor	60 Days
14.8	financing charges for delayed payment	Not Allowed
14.11.1(b)	number of additional paper copies of draft Final Statements	
14.15	currencies of payment of Contract Price	Pak Rupees
14.15(c)	currencies and proportions for payment of Delay Damages	Pak Rupees
17.2(d)	forces of nature, the risks of which are allocated to the Contractor	Nil
19.1	permitted deductible limits:	Contractor be held responsible for rectification of works if damage to surrounding buildings and other installations caused by the contractor's works



Sub-Clause	Data to be Given	Data
21.1	time for appointment of the DAAB	<p>Within 28 days from the Commencement Date.</p> <p>In case the Accepted Contract Amount lesser than PKR one (01) billion, appointment of the DAAB shall be made when Dispute arises between the Parties.</p>
21.1	the DAAB shall comprise	<p>" Sole member "</p> <p><i>[insert either "a sole Member" or "Three Members"]</i></p> <p><i>[For a Contract estimated to cost above PKR 2.5 billion, the DAAB shall comprise of three members. For a Contract estimated to cost between PKR 1 billion and PKR 2.5 billion, the DAAB may comprise of three members or a sole member. For a Contract estimated to cost less than PKR 1 billion, a sole member recommended.]</i></p>
21.1	<p>List of proposed members of DAAB</p> <p>- proposed by Employer</p> <p>- proposed by Contractor</p>	<p><i>[to be inserted at the time of signing of the Contract]</i></p> <p>1. Nominee Of Administrator PIU.</p> <p>2. Nil</p> <p>3. Nil</p> <p>1.- Deleted -</p> <p>2.- Deleted -</p> <p>3.- Deleted -</p>
21.2	Appointing entity (official) for DAAB members	As Stated Above.
21.6	Rules of Arbitration	



		<p>The place of Arbitration shall be in the Employer's country: <u>Karachi, Pakistan.</u> <i>[Insert name of city]</i></p>
--	--	---



Summary of Sections of the Works

Section Name/Description of parts of the Works that shall be designated a Section for the purposes of the Contract (Sub-Clause 1.1.73)	Value: Percentage* of Accepted Contract Amount (Sub-Clause 1.1.9)	Time for Completion (Sub-Clause 1.1.84)	Delay Damages (Sub-Clause 8.8)
A			
B			
C			

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

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



Particular Conditions

Part B - Special Provisions

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



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

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

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

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

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

~~required" in 4.~~
 stating that the Employer's consent has been obtained for that specified authority"



4.2 Performance Security

4.2.1 Contractor's Obligations

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

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

from AAA / AA+ Rated insurance companies

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

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

"The amount of Performance Security shall be reduced to ^{50%} the Works under Clause 10 of Conditions of Contract."

In second paragraph the text "professional engineer as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976) (having temporary licence in case of foreign engineer under Section 12 of the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)" ^{are added after the words "qualified, experienced"} paragraph the words "28 days" are substituted by "14 days" In 2nd line of 4th paragraph the text "or appoint a replacement" is substituted by "except appointment of a suitable temporary replacement is deployed at the Site"

4.3 Contractor's Representative

4.4.2 As-Built Records

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

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

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

4.4 Contractor's Documents



Following Sub-Clause is added:

4.4.4 Shop Drawings

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

Review and approval by the Engineer shall not exceed 21 days and be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and the Engineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.
The following text is added at the end of this Sub-Clause:

4.8 Health and Safety Obligations

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

4.20 Progress Reports

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

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

5.1 Subcontractors Add the following text at the end of paragraph (i): "under Schedule to Bid"

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

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

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

5.2 Nominated Subcontractors 5.2.2 Objection to Nomination

In sub-paragraph (c), "and" is deleted from the end of (i); ", at the end of (ii) is replaced with:
", and".



The following is then added as (iii):

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

6.1 Engagement of Staff and Labour

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

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

6.7 Health and Safety of Personnel

The existing text is substituted with the following:

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

6.8 Contractor's Superintendence

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

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

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

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

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



- 6.12 Key Personnel** The following is inserted at the end of the last paragraph:
 "If any of the Key Personnel are not fluent in this language, the Contractor shall make competent interpreters available during all
- The following Sub-Clauses 6.13 to 6.26 are added at the end of Sub-Clause 6.12:
- 6.13 Foreign Personnel** Not Applicable
- 6.14 Supply of Foodstuffs** The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.
- 6.15 Supply of Water** The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.
- 6.16 Measures against Insect and Pest Nuisance** The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.
- 6.17 Alcoholic Liquor or Drugs** The Contractor shall not, otherwise than in accordance with the Laws of the Country, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal thereto by Contractor's Personnel.
- 6.18 Arms and Ammunition** The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.
- 6.19 Festivals and Religious Customs** The Contractor shall respect the Country's recognized festivals, days of rest and religious or other customs.
- 6.20 Funeral Arrangements** The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the Works.
- 6.21 Forced Labour** The Contractor, including its Subcontractors, shall not employ or engage forced labour which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labour, such as indentured labour, bonded labour or similar labour-contracting arrangements.
- 6.22 Child Labour** The Contractor, including its Subcontractors, shall not employ or engage child labour in accordance with relevant law(s) in force in Islamic Republic of Pakistan.



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



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

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

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

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

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

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

Commencement should not be aligned with agreement, it should be related to letter of award and issuance of commencement letter by the consultants/the Engineer.

The following is added after paragraph (c):

8.5 Extension of Time for Completion

"For last five years".



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

8.14 Incentives For Early Completion

If Contract Data does not state applicability of incentives for early completion, this Sub-Clause shall not apply.

The Contractor shall be entitled subject to Sub-Clause 20.2 [*Claims for Payment and/or EOT*] to bonus payment if the Works and/or each Section is completed earlier than the Time for Completion for the Works or Section (as the case may be). The amount of bonus for early completion of the Works and/or each Section shall be upto a limit and at a rate to 50% of the relevant limit and rate of delay damages prescribed in Contract Data and shall be paid for every day which shall elapse between the relevant Date of Completion of the Works or Section and the relevant Time for Completion.

For the purposes of calculating any bonus payment, the applicable Time for Completion stated in the Contract Data is fixed and no adjustments of this time by reason of granting an EOT will be allowed.

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

- | | |
|--|--|
| 11.12 Supervisory Assistance During DNP | If provided under the Schedule of Prices, the Contractor shall provide supervisory assistance to the Employer during the DNP for the Works. Such supervisory assistance shall be as described in the Specification for the purpose of supporting the Employer's operation and maintenance of the Plant for the period specified in the Schedule of Prices after the Date of Completion. |
| 12.2 Method of Measurement | The following paragraph is added at the end of the Sub-Clause:
"Summary of measured quantity for payment shall be delineated item-wise under four heads namely; "Schedule of Prices Quantity", "Quantity Executed To-date", "Quantity Certified Previously" and |
| 12.3 Valuation of the Works | Overhead and profit to be 15% including taxes |
| 13.4 Provisional Sums | Not Applicable |
| 13.6 Adjustments for Changes in Laws | The following paragraphs are added at the end of the Sub-Clause:
"Notwithstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the Table of Adjustment Data in accordance with the provisions of Sub-Clause 13.7 [<i>Adjustments for Changes in Cost</i>]." |
| 14.1 The Contract Price | The following is added at the end of the Sub-Clause:
"Notwithstanding the provisions of subparagraph (b), Contractor's Equipment, including essential spare parts, imported by the Contractor for the sole purpose of executing the Contract shall be temporarily exempt from the payment of import duties and taxes upon initial importation, provided the Contractor shall post with the customs authorities at the port of entry an approved re-export bond or bank guarantee, valid until the Time for Completion plus six months, in an amount equal to the full import duties and taxes which would be payable on the |



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

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

14.2

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

The Advance Payment Guarantee shall be in the form of Guarantee issued by (a) a Scheduled Bank in Pakistan or

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

14.6

Not Applicable.

14.7 **Payment**

Not Applicable.



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



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

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



- 21.6 Arbitration** The word "international" is deleted in the sixth line of first paragraph. The text of sub-paragraph (a) is substituted with the following:
"the Dispute shall be finally settled under the Rules of Arbitration, specified in the Contract Data;"
- The following Clauses are added after Clause 21
- 22 Custom Duty** to be borne by the Contractor
- 23 Taxes** The Contractor, Subcontractors and their employees shall be liable to pay income tax, withholding tax, super tax and other taxes on income arising out of the Contract. The rates and prices as stated in the contract shall be deemed to cover all such taxes.
- 24 Integrity Part** If it is found and established at any stage that the Contractor or any of his Subcontractors, agents or servants have violated or involved in violation of the Integrity Pact signed by the Contractor then the Employer shall be entitled to :
- (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee ~~Subcontractors, agents or servants of the Contractor or any of~~
 - (b) terminate the Contract; and
 - (c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agent or servants.
- The termination under sub-paragraph (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clause 15.1 to 15.4 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the Employer under sub-paragraph (a) and (c) of this Sub-Clause.



SPECIFICATIONS

PART A - SPECIFIC PROVISIONS



SPECIFICATIONS - SPECIAL PROVISIONS

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SPECIFICATIONS - SPECIAL PROVISIONS

1. DESCRIPTION OF PROJECT

1.1. General

The Employer intends to " **Rehabilitation of Dumlottee Well (Well No. 09)**"

2. THE SITE

2.1. Site of Works

The Site of the Works is the area for construction lying within the right-of-way lines, boundaries and limits shown on the Drawings and any such additional areas adjacent thereto as may be designated by the Engineer subject to approval of Employer from time to time for the construction to be performed under the Contract, and all such areas and additional areas shall be comprised in the Site as defined in Clause 1 of the Conditions of Contract.

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

3. THE WORKS UNDER THE CONTRACT

3.1. General Description

The Contract comprises to construct the work in all respect with the provision of plant/equipment, labor and material required for the execution and completion of the Works, remedying of any defects therein, maintenance of utility services and everything whether of a temporary or permanent nature required in and for such execution, completion, remedying and maintenance so far as the necessity for providing the same is specified or can reasonably be inferred from the Contract.

The following description of the Works to be performed under this Contract is general in nature and is not intended to describe all of the facilities to be provided under this Contract.

4. GENERAL RULES OF SPECIFICATIONS

a) Specification or as Specified

Specification" or "as specified" refers to the specifications outlined in these Documents and where no specifications are available for any work or where the same are found not applicable then the relevant applicable ASTM or BSS specifications or equivalent standards shall apply in the same order.



Any item for which no specifications are outlined but which are identified on drawings, shall be completed according to the standards as per ASTM / BSS, these include items that may be added in the future. The Employer / Employer's Representative may supplement such specifications during the progress of work. All materials and processes used for these items shall be subjected to standard testing and, if found below the pertinent ASTM / BSS standards, shall be removed from the site immediately at Contractor's expense.

b) Standards and Codes

Wherever reference is made in the specifications to the respective standards and codes in accordance to which goods and materials are to be furnished, and work is to be performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly set forth in the Contract.

c) Materials and Processes

All goods and materials to be incorporated in the Works shall be new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

d) Equivalent Materials, Processes, etc.

Where specific materials, processes, etc. are specified and the same are not available other alternative materials and processes which ensure an equal or higher quality than those specified will be accepted subject to the Employer / Employer's Representative's prior review and written approval. Differences between those specified and the proposed alternatives must be fully described in writing by the Contractor and submitted to the Employer / Employer's Representative at least 30 days prior to the date when the Contractor desires the Employer / Employer's Representative's approval who may give such approval after determining that the alternative proposed ensures equal or higher quality.

e) Approved, Directed, Instructed

Approved, directed, instructed means the approval, etc. of the Employer / Employer's Representative unless otherwise stated.

f) Alternatives

Where alternative materials, processes etc., are specified the selection will depend on local conditions and discretion rests with the Employer / Employer's Representative whose decision shall be final and binding.

g) Catalogues / Standards / Manufacturer's Instructions, etc.

Wherever the manufacturer's/supplier's instructions, manuals, guarantees and ASTM/BSS Standards are referred to in the specifications and details of Bills of Quantities; all such literature shall be submitted by the Contractor to the Employer / Employer's Representative for due checking, approval and record.



h) Applicability

Unless stated or specified else-where to the contrary these General Rules shall apply to all sections of work irrespective of their sequence, location and description.

5. DRAWINGS

5.1. Bid Drawings

Bid Drawings issued with the Bid Documents, called the Tender Drawings, show scope of the work to be performed by the Contractor. The Drawings are generally in sufficient detail so as to be used as a basis for construction, fabrication and for placing orders for materials subject to corrections based on the future issue of supplementary Drawings as provided under Sub-Clause 5.2 hereof.

5.2. Construction Drawings, Supplementary Drawings

After award of Contract, the Contractor shall carry out "Joint Survey" at Site of Works in pursuance to Sub-Clause 6.4, Specifications - Special Provisions. The Contractor shall submit to the Engineer "Joint Survey", duly signed, dated and stamped by the representatives of the Employer, Consultant and Contractor.

Simultaneously, the Contractor shall submit to the Engineer detailed "Work Programme" in terms of Sub-Clause 14.1 Conditions of Contract.

After receipt of "Joint Survey" and "Work Programme" from the Contractor, the Engineer will start issuing Construction Drawings to the Contractor. The Engineer shall have authority to issue to the Contractor, from time to time, such Supplementary Drawings and instructions as shall be necessary for the purpose of the proper and adequate execution and completion of the Works and the remedying of any defects therein. The Contractor shall follow these Drawings.

The Contractor shall give notice to the Engineer regarding the part of the Drawings which in his opinion contain discrepancies or are not clear. The Engineer shall issue necessary clarifications or Supplementary Drawings in greater details as required to execute the Works. These Supplementary Drawings showing changes from the Bid Drawings, in the opinion of the Contractor, shall be reviewed by the Engineer for his determination of adjustment of the Contract Price under Clause 51 and 52 of the Conditions of Contract.

5.3. Definition of Term Drawings

The term Drawings as used in the Specifications means the Drawings referred in Clauses 5.1 and 5.2 hereof.

5.4. Checking of Drawings

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



5.5. Copies of Drawings

Drawings will be issued to the Contractor and the Employer as described below.

5.5.1. Bid Drawings

One (1) set each of the Bid Drawings will be issued to the Contractor and Employer along with Bid Documents. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

5.5.2. Construction Drawings / Supplementary Drawings

One (1) print of each Construction Drawings / Supplementary Drawing will be issued to the Contractor and Employer free of charge. Additional sets will be provided at cost of reproduction upon written request of the Contractor.

5.6. Drawings to be furnished by the Contractor / As-Built Drawings

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

The Contractor shall, at all times, keep on Site a separate set of prints on which all significant changes between the work shown on the Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses. The Subcontractor(s) for plumbing, mechanical and electrical shall, at all times, keep on Site, a separate set of prints of the drawings (showing their parts of the Works) on which all significant changes between the work shown on the Drawings and that which is actually constructed, shall be noted neatly, accurately and promptly as the work progresses. Such drawings shall show the exact physical location and configuration of the works as actually installed.

The Contractor shall, within fourteen (14) days of issuance Taking-Over Certificate for whole of the Works, furnish to the Engineer for his approval two (2) copies of such marked up drawings. One (1) copy of each of the marked-up drawings approved by the Engineer shall be returned to the Contractor by the Engineer and these shall be used for the preparation of the As - Built Drawings.

The Contractor shall furnish to the Engineer six (6) complete sets of all As -Built Drawings as well as AutoCAD soft copy within thirty (30) days of receipt of drawings stated above, from the Engineer.



5.7 Shop Drawings & Design

The Contractor to prepare and provide detailed shop drawings & design, for all the required items as per the instructions and approval of the Employer/ Engineer and as mentioned in Bidding documents and drawings including but not limited to Architectural, Structural, Road works, Hard & Soft Landscaping, Electrical, Water Supply, Drainage, ICT or any related electro-mechanical works apart from Bar-bending schedule, etc. All drawings should be prepared based on the rules, regulation and requirements of the concerned departments and should be prepared electronically on latest version of AutoCAD, hard copies along with soft copies on CD's shall be submitted for the approval of Engineer as per the Nos. required in Scope of Work.

Any item which is neither shown on the drawing not mentioned in the Bill of Quantities or Specification but is a pre-requisite to carryout, the contractor is required to prepare shop drawing of the missing/ required items, distributed among the rates and prices entered for the related items of works and shall be considered to be included in the contract price. The decision of the Engineer shall be final and binding on the Contractor unless before the deadline for submission of Bids, such discrepancies are to be clarified. The clarifications in either case would be sent to all bidders as an Addendum.

6. SETTING OUT OF WORK AND SURVEY

6.1. Reference Points, Lines

The Contractor shall establish bench marks and / or reference line at the Site in accordance with the instructions of the Engineer. The Contractor shall set out its work from these bench marks and / or lines.

6.2. Verification

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

6.3. Survey Instruments

The Contractor shall maintain at the Site the requisite surveying instruments in perfect working conditions for the use of the Engineer's Representative to check levels and lines of the work at all times. These instruments shall include (but not limited to) One Total Station, Adequate nos. of Levels, theodolites, Tapes, etc.

6.4. No work without Joint Survey

The Contractor shall not start the excavation and / or embankment works until the Joint Survey has been done to establish the existing/ original ground levels (i.e. National Surface Level or NSL).



7. APPROVAL OF MATERIALS AND PLANT

7.1. Quality of Materials

All materials, fixtures, fittings, supplies and plant furnished under the Contract shall be new and unused, standard first grade quality and of the best workmanship and design. No inferior or low- grade materials, supplies or articles will be either approved or accepted, and all work of assembly and construction shall be done in a first-class and workman like manner. In asking for prices for materials intended for delivery to the Site and incorporation in the Works under any portion of these Specifications, the Contractor shall provide the manufacturer or supplier with complete information as may be necessary to secure compliance to this Clause and, in every case, he shall quote this Clause in full to each such manufacturer or supplier.

The Employer will select the manufacturer of his choice and approval will be conveyed to the Engineer and Contractor.

7.2. Submission of Samples and Data

As soon as practicable after award of Contract, the Contractor shall submit for the approval of the Engineer drawings, catalogues, diagrams and other descriptive data for all mechanical, electrical, architectural and such other materials and plant designated by the Engineer subject to approval of Employer, which the Contractor proposes for use under this Contract. For certain materials and plant, data may be required to be submitted in accordance with a detail form furnished by the Engineer. Samples of materials (1 set) each shall be submitted by the Contractor to the Engineer and the Employer at Contractor's cost for approval sufficiently in advance of the materials intended to be incorporated in the Works.

7.3. Testing

Testing, except as otherwise specified herein, shall be performed by a testing agency as proposed by the Contractor and approved by the Engineer, at no extra cost to the Employer. The Engineer/ Employer may require all testing to be carried out under their supervision only.

The quality control testing shall be performed by the Contractor's competent personnel in accordance with a site testing as approved by the Engineer/ Employer.

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

7.4. Testing Laboratory Certificates

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



7.5. Inspection

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

7.6. Approved Sample at Site

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

7.7. Site Laboratory

The Contractor shall establish a site laboratory for the purpose of necessary testing. The cost of equipment and salaries of the manpower required will be borne by the Contractor.

8. CONSTRUCTION SCHEDULE

8.1. Submittal Date

The programme of Works submitted by the Contractor in accordance with Clause 14" Programme to be Submitted", of the Conditions of Contract shall be submitted in the form of a CPM schedule based on Primavera Project Planner or Microsoft Project covering all construction activities indicating critical activities with critical path, total and free float, interdependencies between the construction activities and resource scheduling for Contractor's Equipment, material and labor, within the period stated in the Appendix A to Tender. All milestones shall be clearly identified.

If the Contractor fails to submit the construction schedule indicating all the details as listed above within 30 days of Notice of Commencement a penalty of Rs 30,000/- per week will be charged on the Contractor.

8.2. Requirements

The detailed submittal shall consist of schedules, network analysis tabulations and narrative descriptions of the proposed construction programme.

Each summary or detailed schedule shall consist of a bar chart and a time -scaled network. The scheduled start and finish times for all activities on the bar chart shall agree with those on the network. All inter-relationships and inter-dependencies between structures shall be clearly indicated on the schedules.

The network shall show the order and interdependence of activities planned by the Contractor, and shall be time-scaled according to calendar dates.



8.3. Monthly Reports

Each month, the Contractor shall submit a report consisting of:

- Copies of the bar charts for the current phase with both actual progress and scheduled
- ~~Networks analysis~~ tabulations as in Sub-Clause 8.3 above, reflecting actual start and finish dates where applicable.
- A narrative report discussing any significant deviations from the schedule and, if necessary, explaining the steps proposed to be taken to maintain the approved schedule.

9. Not used

10. SITE OFFICE AND TEMPORARY FACILITIES PROVIDED BY THE CONTRACTOR

10.1. Contractor's Office, Facilities etc.

The Contractor shall establish and maintain a Site office. The Contractor shall provide all facilities in connection with the execution, completion, of the Works, remedying defects therein and maintenance of the utilities services. The facilities shall, not be limited to, the Contractor's Site Office, labor camps, workyard and storage areas, temporary water supply, waste water disposal, temporary electricity, medical unit, temporary roads, fire protection and firefighting equipment etc. The Contractor shall be solely responsible for arranging the facilities.

The Contractor shall arrange his labor camp, work yard, storage area, site office within the area available at the Site.

10.2. Notice Board

The Contractor shall erect and maintain at the Site in a location to be approved by the Engineer, 3 Sign Boards 4.45 M height and 2 M wide for writing the name of Work, name of Employer, name of Consultants, name of Contractor and Project Cost. The notice board shall comprise of the following;

- ☐ Frame of 3" dia GI Pipe properly painted as per the direction of the Consultants/ Engineer and as per drawing.
- ☐ 2 Nos. Posts of 3" dia GI Pipe 4.45M above ground and 1M below ground embedded in 1:2:4 CC 2'x2'x4' with proper arrangements of anchorage and brasses. Pipes painted with anti-rust as directed by the Engineer.
- ☐ 4 Nos. Steel Sheets 0.6M high and 2M wide fixed on both sides with 50mm gap between each. The background of plates is of white color whereas the writing would be black or red color (as approved by the Engineer)
- ☐ White imported 3M sheet used as background. The color of monogram would be, green, red or black etc. (as approved by the Engineer)
- ☐ Alphabets of appropriate size as approved by the Engineer in 3M reflective sheet in blue/ black color.

The Contractor shall maintain the display of the notice boards at his own cost throughout the length of the project.



11. FACILITIES FOR ENGINEER'S & EMPLOYER PERSONNEL PROVIDED BY THE CONTRACTOR

11.1. Engineer & Employer Facilities

The Contractor shall provide, operate and maintain the following facilities within 14 days of the Engineer's Order to Commence the Works for the Engineer & Employer:

- a). Contractor shall establish a container office accommodation complex (Approx. 5000 sqft) as per provided drawing. Two office containers of 40 feet with fully Air-Conditioned and maintain the same facility for Engineer & Employer, till the completion of the project (including) DLP, including all costs of electricity, telephone, water supply, sewerage, janitorial services, provision of stationery / consumable / supplies (as per the requirement of the Engineer & Employer).
- b). Contractor shall provide 02 Nos office boy, 02 Nos. Security Guards etc. Contractor shall be responsible for all salaries, benefits etc. of the appointed people. Cost of all the above works are deemed to be included in the contract price and no additional payment shall be made by the Employer to the Contractor under any circumstances.
- c). Contractor shall provide all tea items for use in Engineer & Employer office.
- d). **02 Nos. Desktop** - Core i7 10th Gen or Higher, 32/64 GB Ram, Latest Intel Motherboard as required by the processor & GPU, Nvidia GPU RTX 3000 Series or Higher, 1TB HDD + 256 SSD, Keyboard, Mouse, DVD Writer, 21" LED, Licensed Windows 10/11, Ms Office latest version, USB 3.0 64 GB, Latest UPS for backup.
- e). Contractor shall provide and maintain with cartridge/toner etc., **HP Color Printer (02 Nos.)** with Scanner (All in one) latest model throughout the contract period including DLC period.
- f). Contractor shall provide 2 nos. of vehicles detailed as under, to be used by the Engineer & Employer at site. The Contractor shall pay the POL maintenance and driver charges and no additional payment shall be made by the Engineer & Employer to the Contractor under any circumstances. The vehicle shall be returned to the Contractor after completion of the project on as is where is basis. Details of the vehicles are as under:
 - (i) 02 Nos. Toyota Hilux Revo G-AT 4x4 Double Cabin (full options with Driver)
- g). Contractor should also provide all protective gear like Helmet, goggles, safety boots to the Engineer & Employer staff at site.
- h). Providing all stationery and consumable items like pen, pencils, papers, binder cards, plastics, staples, etc. as per requirement.
- i). The Contractor shall provide an average cost of Rupees Thirty Five only (Rs. 35,000/-) each per month pertaining to mobile & telephone use for Engineer & Employer.

The above equipments shall be in use of the Engineer & Employer and shall become property of the Employer and as-such will be handed-over to the Employer in good working condition on completion of the project.



In case of non-provision of facilities mentioned above, the same shall be arranged by the Employer / Engineer and be deducted from any monies due / becoming due to the Contractor by the Employer alongwith 10% overheads till these facilities are provided satisfactorily to the Engineer.

Cost of all above facilities are deemed to be included in the contract price and no additional payment shall be made by the Engineer to the Contractor under any circumstances.

The vehicle should be brand new and latest model. The vehicles are for the exclusive use of the Engineer & Employer / Engineer's supervision team to meet their transportation needs. The use of such transportation facilities shall be exclusively under the control of the Engineer & Employer and the contractor shall be wholly responsible for furnishing at all times above said facilities. The said facility shall be provided within 14 days of Engineer's issue of commencement letter and shall continue un-interrupted till the completion of works. The said vehicles shall be handed-over back to the Contractor on completion of work.

- a). The Contractor shall furnish, supply and provide, without specific direction of the Engineer & Employer all lubricants, tyres, other supplies, regular service and maintenance at all times for the above vehicles till the issue of the Completion Certificate of the contract.
- b). The Contractor shall provide an amount equivalent to 800 liters, 2 x 400 liters for Toyota Revo Double Cabin, Petrol / diesel per month to the Engineer & Employer by 6th of each month in advance for complete duration of work including any extended period.

In case of non-provision of facilities mentioned above, the same shall be arranged by the Employer / Engineer and be deducted from any monies due / becoming due to the Contractor by the Employer alongwith 10% overheads till these facilities are provided satisfactorily to the Engineer & Employer.

Cost of all above facilities are deemed to be included in the contract price and no additional payment shall be made by the Engineer & Employer to the Contractor under any circumstances.

12. SAFETY

12.1. Accident Prevention, Protective Equipment

The Contractor shall comply and enforce compliance by all his Subcontractors with the highest standards of safety and accident prevention in compliance with all applicable laws, ordinance and statutory provisions.

Where overhead work is being carried out, warning signs shall be installed at ground level clearly warning of the overhead work.

All warning signs shall be in two languages, English and Urdu, and shall at all times be maintained in a clean and legible condition, to the satisfaction of the Engineer.

Trash shall be removed at frequent intervals to the satisfaction of the Engineer.

If, safety precautions/ warning signs are not installed by the Contractor, employer will charge an amount of Rs. 10,000/- per site per day for the period.



13. PAYMENT FOR WORK REQUIRED BY SPECIAL PROVISIONS

Unless otherwise specifically stated in the Contract, the price of all work required by the Special Provisions shall be considered to be included in the Contract Price.

- 14.** The Bided Rates shall be inclusive of all lead and lift
- 15.** No alterations or additions shall be made by the Contractor in the Bill of Quantities and rates must be filled in ink or typed out both in figures and words clearly and legibly in the columns provided in the schedule of quantities. All corrections must be initiated by the contractors. Any Tender which does not comply with this condition will be liable to be summarily rejected and not taken into account when preparing comparative statement.
- 16.** Materials obtained from excavations will be the property of the Employer. Serviceable materials are to be stacked in places pointed out by Engineer-in-charge. The Contractor undertakes to have the site clean and free from rubbish to the satisfaction of the Engineer. All surplus materials, rubbish, etc., will be removed to places to be fixed by the Engineer and nothing extra will be paid for this.
- 17.** On completion of the work or earlier as directed by the Engineer, the Contractor shall remove all temporary structure (Godowns, site offices, etc.), erected by him at the site of work. He shall fill tanks dug out by him at site, remove all debris and other materials like surplus sand, stone ballast, rubbish, etc.; and in short, shall leave the site in a neat and tidy condition.
- 18.** The contractors in the course of their works should understand that all material (e.g., stone and other materials) obtained in the work or dismantling, excavation, etc., will be considered as Employer's property and issued to the contractors (if they require the same for their own use) at rates approved by the Engineer. If the materials are not required by them they will be disposed off in the interest of Employer.
- 19.** The contractor shall inspect the site of works and acquaint himself with the nature and requirements of the work, facilities of access for materials, removal of rubbish, cost of carriage, nature of strata, etc., before submitting his Bid.
- 20.** The contractor shall have to make temporary approach roads, etc., at his own cost to facilitate movement of materials, such approach roads shall be aligned in a manner approved by the Engineer.
- 21.** The contractor shall have to make proper arrangements for road crossing barriers during working hours in the day time as well as in the night when danger lights will have to be provided on either ends at his own cost and no extra cost will be paid. Sufficient barricades and red lights will be provided by the Contractor where required to avoid the chances of accidents. In case an accident occurs for failure on the part of the contractor, he shall be entirely responsible for the consequences.
- 22.** The Contractor shall have to make arrangements for diversions for traffic wherever necessary and shall have to provide diversion and caution boards as per directions of the Engineer at his own cost for which no extra cost will be paid. The diversion shall be watered and consolidated as per directions of the Engineer.



23. No material shall be removed from the site without the written permission of the Engineer.
24. Dewatering including shoring wherever so required for any foundation area, pumping, bailing out water, drainage of water within plot areas if any shall be deemed to have been included in the rates quoted by the bidders and no extra payment will be made. The rates shall be deemed inclusive of such incidental charges.
25. The Contractors shall execute all works at their own cost for diversion of water away from the plot as per site requirements to have full satisfaction of Engineer and no additional payment will be made on this account.
26. The Engineer, subject to approval of the Employer, reserves the right to select all materials and the type, grade, heating capacity and quantity of proportion of any or all materials as required for a particular work. The decision of Employer in this respect shall be final and binding on the Contractor. The rejects on materials must be carted at his own cost. If the rejected materials are not re moved within one month of its rejection the materials will become the property of the Employer or will be removed at Contractors cost.

27. ATTENDANCE OF MEETINGS

The Contractor shall attend and shall cause his Sub-Contractors to attend any or all meetings when called by the Employer or the Engineer or his Representative to discuss progress of the work and other matters related to the work and the Contract, without any compensation from the Employer.

- 27.1. The Contractor shall bear all expenses of the Employer and his agents and representatives and the Engineer, his agents and representatives if requested by the Contractor for any meetings, instructions and approvals away from the Site.
- 27.2. The proceedings of the meetings shall be recorded by the Engineer which shall be circulated to all the participants including those of the Contractor. All decisions taken in the meetings shall be binding on the Contractor and shall form part of the Contract.

28. DOCUMENTS NOT TO BE ALTERED OR MUTILATED

No alteration or mutilation (other than filling in all the blanks intended to be filled in) shall be made in the form of Bid or in any of the documents attached to it. Any comments which it is desired to make shall not be placed on any of the documents attached hereto, but shall take the form of a separate statement which shall be as brief as possible and referenced to items, clauses and pages of the annexed documents.

Such statements shall not qualify the acceptance of the Bid based upon a proposed change or changes in the annexed documents, nor shall be binding upon the Employer in any way in making the award. Alterations of already written prices must be signed in the place of alteration by the Bidder or his legally authorized representative.



29. PERSONAL LIABILITY OF PUBLIC OFFICIALS OR ENGINEER

In carrying out any of the provisions of these specifications, or in exercising any power of authority granted to them by or within the scope of the Contract, there shall be no liability upon the Employer or his authorized representatives or the Engineer or his authorized representatives their personally or in their official capacity, it being understood that in all matters they act solely as agents and representatives of the Employer.

30. ACCESS AND EXISTING ROADS

If the Contractor finds it necessary or elects to use existing roads, the Contractor shall make all necessary arrangements and obtain all permits from the relevant departments for travel over and use of such roads. The Contractor shall observe all rules regulations of the concerned department regarding the use of said roads. The cost of maintaining all necessary safety measures and temporary structures and making any necessary repairs, replacements or similar operations and all or any other costs required by reason of his use of such roads shall be borne by the Contractor and the Contractor shall save harmless and indemnify the Employer in respect of all claims, demands proceedings, damages, costs, charges and expenses whatsoever arising out of or in relation to any such operation or interference.

31. FIRST AID FACILITIES

The Contractor shall provide and maintain adequate First Aid Facilities at all times, convenient to the Site to the approval of the Employer.

32. FINAL HAND-OVER

At the end of the Defect Liability Period stipulated in the contract, the Employer and the Engineer on application of the Contractor, shall decide the members of the final hand over committee and announce the same to the Contractor. The committee, after inspection of Work, if satisfied that there are no deficiencies or defects due to work of the Contractor shall certify the final hand-over, and the Employer will then issue a final Certificate of Completion of Work within thirty (30) calendar days thereafter.

Once completion has been formalized and endorsed both by the contractor as well as controlling officer, the work will be regarded as completed for all purpose as per contract agreement although the accounts may not have been settled, no further new works will be authorized against the sanctioned project and not further supplementary estimates or claims may be accepted.

33. EMPLOYER AND ENGINEER NOT PERSONALLY LIABLE

No member or officer of the Government or the Employer or the Employer's Representative or the Engineer or his representatives or any one of their respective staffs or their employees shall be in anyway personally bound or liable for the acts or obligations of the contractor under the contract or answerable for any default or omission in the observance or performance of any of the acts, matters or things which are herein, contained.



34. PROGRESS PHOTOGRAPHS

The contractor shall furnish to the Employer and to the Engineer every two weeks at least six photographs to clearly show the progress of construction. The photographs shall be submitted in glossy prints 20 cm x 20 cm. Each print shall be marked on the back with the date and serial number. There shall be no writing, lettering or marking on the face of the photographs. The set of photographs of the Engineer should accompany respective negatives.

35. SITE ORDER BOOK

The Contractor shall maintain site order book (of triplicate leaves) at the Site, for taking down instructions of the Engineer and/ or the Employers, without any obligation and charges to the Employer / Engineer.

36. REPORT ON PROGRESS OF WORK AND PHOTOGRAPHS

The Contractor shall, during the execution of the work, submit to the Employer (3 copies) and Engineer (2 copies) so as to reach them in the first week of every calendar month, a report on the actual progress of the works attained by him during the preceding monthly fully supported with color photographs of (5" x 7") size, at least 15, depicting the complete stages of the works. Each photograph should be properly pasted on A-4 size paper, indicating the location and other relevant information of the area photographed. The report will be submitted on the standard format to be supplied later on. In case the Supervision Engineer are different from the Design Engineer, one copy each of photographs should be sent to both the Engineer.

The set of photographs for the Design Engineer should be submitted with respective



BILL OF QUANTITIES



Preamble to the Bill of Quantities

The following preamble clauses shall form part of the Contract Documents and must be read in conjunction with the Drawings, Specifications, General Conditions, and Particular Conditions of Contract.

1. General Instructions

- ☐ The Bill of Quantities (BOQ) shall be read in conjunction with all relevant drawings, specifications, and contract conditions.
- ☐ The quantities provided are approximate and are subject to re-measurement upon execution and completion of the Works.
- ☐ The Contractor is responsible for visiting the site to examine and understand all local conditions before pricing the Works.
- ☐ Prior to commencement of the Works, the Contractor shall visit the site to verify existing structures and prepare an accurate As-Built Drawing of the existing premises. The As-Built Drawing shall be submitted in AutoCAD (soft copy) format for finalization and incorporation of existing site condition (if differed from prior survey).
- ☐ All costs associated with site visits and As-Built Drawing preparation shall be deemed included in the BOQ rates.
- ☐ The Contractor shall carry out a confirmatory Topographic Survey of the proposed site and submit a Survey Report and Topographic Drawing to the Consultant for review. The verified data shall be incorporated into the IFC (Issued for Construction) Drawings.
- ☐ IFC Drawings shall be issued by the Consultant only after submission and approval of the site verification report and As-Built Drawings by the Contractor.

3. Drawings and Specifications

- ☐ The Contractor shall ensure that all works are executed in accordance with the latest approved drawings and specifications.
- ☐ In the event of any discrepancy between the drawings and the BOQ, the matter shall be referred to the Consultant for clarification prior to execution.

4. Compliance with Standards

- ☐ All materials and workmanship shall conform to the applicable international or national standards as specified in the Contract Documents.

5. Health, Safety & Environmental Obligations

- ☐ The Contractor shall comply with all statutory Health, Safety, and Environmental (HSE) requirements, including project-specific Environmental Management Plans.
- ☐ All costs related to such compliance shall be deemed included in the BOQ rates.



6. Preliminaries and General Items

The Contractor shall allow for the following in the pricing of the preliminaries:

- ☐ Mobilization and demobilization
- ☐ Site establishment
- ☐ Site security and access control
- ☐ Temporary services and facilities
- ☐ Site signage and traffic management
- ☐ Engineering Facilities
- ☐ Required insurances, permits, and approvals



BILL OF QUANTITIES

Client / Owner : Project Implementation Unit

Name of Project : Rehabilitation of Dumlottee Well (Well No. 09)

Name of Work : Civil / Plumbing & Electrical Works

<u>GRAND SUMMARY</u>			
Sub-Head	Name of Work	Amount (Rs.)	
ACIVIL WORKS			
BCONSTRUCTION OF LAKE RESERVIOR			
CTUBEWELL			
DELECTRICAL WORKS			
iGeneral Works			
iiSolar System			
iiiGenerator			
	Total Amount Rs. (A+B+C+D)		
	13% SST		
	Grand Total		



BILL OF QUANTITIES

Client / Owner : Project Implementation Unit
 Name of Project : Rehabilitation of Dumlottee Well (Well No. 09)
 Name of Work : Civil / Plumbing & Electrical Works

Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
CIVIL WORKS					
Boundary Wall					
1	Clearing and grubbing and Jungle clearance the site by cutting, uprooting and removing all rubbish and shrubs including disposal to (outside limits) designated places.	100,000	Sft		
2 (i)	Excavation asin ordinary soil upto 1.5 Mdepth, infoundation and pipe trenches upto 1.5 Mwide, inshafts, wells and independent holes upto 30sqm each andthrow earth clear of edgesof excavation within 10m. Timbering tobe paid extra (Foundation andTrench over 1.5 Mwidths will be treated asAreas).(Complete with all respects asper drawing details & approved by Architect)	7,535	Cft		
2 (ii)	Same as item 1-1, but in Hard Soil.	4,057	Cft		
3	Earth filling asin Ordinary orhard soil, filling infoundation, pipe trenches, shafts, wells, independent holes, underfloors or around plinths etc., 1.5 Mbelow orabove Ground Level (GL), with spoil obtained from excavation intranches/over areas within 50Mincluding watering andcompaction in150 mm layer and dressing to required profile and shape	8,114	Cft		
4	Providing &fixing Precast boundary Panel size 10'x8' x2" (3500 psi minimum) wall and prestressed column size 8'x9'x10'-6" (5000 psi minimum) i/c column cap local made and anylead, lift, line &level including column fixing grouting with high strength grout material complete asper drawings details specifications and as directed by the Engineer/Architect.	1,296	Rft		
5	Placing, compacting, finishing andcuring ofconcrete using ordinary Portland Cement/ Sulphate resistant cement /Slag cement asmay berequired: including screening, washing of aggregates andmixing ofconstituents using batching plant, transportation bytransit mixer, pouring with pump inthe required portion toachive acylindrical strenth inthe field as per ACI214, with the specifiedconsistency i/c the cost of shuttering,, compaction with compactor, excluding the cost of admixture, as approved and directed by the Engineer Incharge.				
i)	Ratio 1:4:8 1450 PSI	595.35	Cft		
	Ratio 1:1 1/2 :3 3000 PSI	4,044.39	Cft		
6	Fabrication of deformed steel reinforcement for cement concrete including cutting,bending, laying inposition, making joints andfastenings including cost ofbinding wire (also includes removal of rust from bars.) Grade-60	12.43	ton		



Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
7	Preparing the surface and painting with weather coat 1/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather three coat of approved make.	11,000	Sft		
8	One Coat of bitumen applied hot @ 0.75 kg/sqm and blinded with sand at 0.012 cum per sqm (including cleaning surface)	5,292	Sft		
9	Providing and laying stone soling from approved quarry including hand packing & filling voids with stone metals over a consolidated & compacted layer of moist earth including ramming & compacting with power roller etc. complete as per drawings details specifications and as directed by the Engineer/Architect.	1,621	Cft		
10	Providing & fixing (MS) steel gate including columns comprising 5/8" square solid steel bar welded with 3/8" square solid barings, 2" x 1/4" horizontal strips, 24" x 24" x 3/4" thick MS bearing plate, G.I. bolts, hinges, hold fast with rollers track, locking arrangement etc including cutting, welding, red-oxide & enamel painting. Including RCC columns 2' x 2' complete in all respects as shown on drawing and directed by the Engineer	130	Sft		
11	Earth work Barrow compaction laying earth 6" layers levelling, dressing and watering for compaction etc complete upto 2 ft	11,000	Cft		
B Rehabilitation of Buildings					
12	Dismantling of existing steel structure and removal of debris from premises complete in all respects	1	LS		
13	Repair works of RCC and CC concrete complete in all respects.	100	Cft		
14	Internal plaster cement plaster Ratio 1:2 upto 20ft height 1/2" thick	2,000	Sft		
15	Internal plaster cement plaster Ratio 1:2 upto 30ft height 1/2" thick	2,000	Sft		
16	Repairing of stone cladding complete in all respects.	1,500	Sft		
17	Preparing the surface and painting with weather coat 1/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather three coat of approved make.	3,500	Sft		
18	Internal floor repairing complete in all respects.	2,000	Sft		
19	Providing and fixing roof sheets, single layer 13mm thick polythene sheet and 2mm thick high rip pvc water proofing membrane over one coat bitumen balck japan mixed with carosine oil with burning lamp over roof i/c necessary overla etc complete in respects.	1,200	Sft		
20	Providing and fixing MS door as per sizes available in existing buildings and as approved by engineer with 2 coats of red oxide and epoxy paint complete in all respects.	280	Sft		
21	Fabrication of heavy steel work with angles, tees, flat iron, round iron and sheet iron for making trusses, girders, tanks etc including cutting, drilling riveting, handling assembling and fixing including erection in position. for photo voltaic solar system complete in all respects.	10	ton		

Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
22	Supplying and Fixing MS Angle (3"x3"x3/16"th.), fixed with 1/4" Ø, 3" long concrete expansion bolt @ 12" c/c including paint etc complete in all respect	2	ton		
23	Providing & fixing cement paving blocks flooring having size of 197x 97x 80(mm) of city /quddra /cobble shape with pigment, having strength b/w 5000PSI to 8500 PSI/c filling the joints with hill sand over abed of 2" thick hill sand or stone dust and laying and compacting in specified manner/ pattern and design etc complete.	10,000	Sft		
24	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate for (Sub Floor 1:3: 6 4"thk under pavers). Complete in all respects.	3,330	Cft		
25	Providing & fixing Precast Edge Block 3750PSI Industrial Made Size 6 inches thick x12 inches long x18 inches high including the cost of Cartage, excavation, form Work for haunching, 1450PSI lean concrete, 2250PSI concrete for haunching, 1:4 cement sand mortar.	1,000	Rft		
26	Supply and Fixing cast iron (CI) manhole cover with frame etc (Heavy Type) of approved quality complete 24"(610 mm) dia	40	Nos		
27	Galvanised MS ladder rings 3/4" dia inside and outside water tanks; Each rung of 12" width, 6" projected outside the wall and 6" embedded in RCC on both ends; including all necessary works for complete installation	2	Job		
28	Providing and fixing ratio 1:3:6 concrete solid block 6" wide masonry with 1:6 cement sand mortar upto 20ft height as and where needed complete in all respects.	2,500	Sft		
29	Providing, Laying uPVC Pressure Pipes of Glass 'C' (equivalent make) fixing in trench i/c cutting, fitting and jointing with 'Z' joint with one rubber ring i/c testing with water to a head 91.5 meter or 300 ft. (may vary at site)	3,000	Rft		
30	Construction of Gate Valve, Air valve and washout valve chamber complete in all respect	4	Nos		
31	2 way pillar, CI body gate valves, elbow, Tees and reducer complete in all respect.	4	Nos		
	Toilets (5' x 5')				
32	Excavation as in ordinary soil upto 1.5 M depth, in foundation and pipe trenches upto 1.5 M wide, in shafts, wells and independent holes upto 30sqm each and throw earth clear of edges of excavation within 10m. Timbering to be paid extra (Foundation and Trench over 1.5 M widths will be treated as Areas). (Complete with all respects as per drawing details & approved by Architect)	60	Cft		
33	Supplying and laying concrete for foundation (assuming M15 grade or appropriate for non-RCC foundation) complete in all respects.	60	Cft		



Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
34	Providing and laying 1: 3: 6 cement concrete solid block masonry wall above 6" thickness set in 1: 6 cement sand mortar inground floor superstructure including raking out joints and curing etc complete				
		576	Sft		
35	Internal plaster cement plaster Ratio 1:2 upto 20ft height 1/2" thick	1,000	Sft		
36	Flat RCC slab on suitable roof (assuming non-RCC, i.e. beams consider alternative like concrete slab roofing material) complete in all respects.	80	Sft		
37	Internal Wall Tiling (up to 4 ft height) Wall area to tile per washroom (150 mm x 150 mm) or as approved by engineer	360	Sft		
38	Indian style WC complete in all respects.	4	Nos		
39	Washbasin / Washhand basin (medium size) with fittings and completed in all respects.	4	Nos		
40	Pedestal or wall-mounted basin complete in all respects.	4	Nos		
41	Flushing system with fittings completed in all respects.	4	Nos		
42	Faucets complete in all respects.	4	Nos		
		4	Nos		
		4	L/S		
45	Roof screeding 2" thick with 13mm polythene sheet complete in all respects.	80	Sft		
46	Providing and fixing wooden door with frame hole fast complete door for washrooms (size 2.5 x 6.5 ft) complete in all respects.	65	Sft		
46a	Construction of an 8' x 10' x 6' septic tank and a 6' diameter soakage pit, including excavation, stone soling, lean concrete, 6" thick RCC/brick walls and floor, internal partition, inlet/outlet piping, internal and external plaster with waterproofing, UPVC pipe 4" dia and manhole covers. The soakage pit includes filter media and vent pipe. Work includes all materials, labor, and finishing as per standard specifications and site conditions.	1	LS		
46b	Providing and installation of fiber water tank of 500 gallon with complete plumbing works.	1	LS		
	Guard Room (5' x 5')				
47	Construction of 5' x 5' guard room with tie beam RCC roof, column, block masonry work, internal and external plaster with paint, window and door including electrical works complete in all respects.	1	Job		
	Washroom Room (5' x 5')				
48	Providing and constructing a complete washroom of size 5' x 5', including civil, plumbing, and electrical works. Scope includes earthwork, PCC, brickwork, plastering, waterproofing, ceramic tile flooring and add up to 7 feet height, RCC lintel, door frame with shutter, ventilation, sanitary fixtures (EW with cistern, wash basin), plumbing lines with CP fittings, electrical wiring with light point, exhaust fan point, and painting/finishing works. All works to be completed as per specifications, drawings, and instructions of the Engineer-in-Charge.	1	Job		



Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
	Electric Motor pump				
49	Providing, installing, testing, and commissioning of electric motor with centrifugal/submersible pump suitable for water lifting from underground/overhead tank, including base frame, vibration pads, suction/delivery pipe connections, NRV, foot valve, wiring, and control switch. Capacity as per site condition. Complete in all respects as per specifications and instructions of Engineer-in-Charge.	1	Job		
	uPVC pipe 250mm dia				
50	Supplying, laying, jointing, and testing of 250mm (outer dia) uPVC pipe, conforming to ASTM D-3034 / BS EN1401 or equivalent, SN-4/SN-8 stiffness class, including necessary fittings, rubber ring joints/solvent cement, bedding and cushioning in sand, cutting and jointing, excavation and backfilling (where required), complete in all respects as per drawings and specifications.	250	mt		
	Pump Room (15' x 15')				
51	Construction of 15' x 15' ft pump room with 12'ft height and 6" thick wall & floor, stone soling, lean concrete, foundation, plinth beam, Column, tie beam RCC slabs with screeding and water proofing, internal, external plaster with paint, 2 windows (4 ft x 4 ft) and one M.S door (4 ft x 8 ft), electrification complete in all respects.	2	Job		
52	Three (03) coats of matt finished enamel paint of approved colour, including including surface preparation by provision of a film with Alkali resisting primer on fair faced concrete surface/plastered surfaces to form smooth base for paint, including sand papering, filling where required, etc. complete	3,000	Sft		
53	Supplying and Fixing PVC Water Stopper 8" wide 3/8" thick in vertical (Wall/Column) or horizontal (Floor/Slab) expansion joint including cutting and jointing complete in all respects	200	Sft		
54	Providing & fixing cement paving blocks flooring having size of 197x 97x 80(mm) of city /quodra /cobble shape with pigment, having strength b/w 5000PSI to 8500 PSI/c filling the joints with hill sand over abed of 2" thick hill sand or stone dust and laying and compacting in specified manner/ pattern and design etc complete.	4,000	Sft		
55	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate for (Sub Floor 1:4: 8 3" thick under pavers). Complete in all respects.	1,000	Cft		
56	Providing & fixing Precast Edge Block 3750PSI Industrial Made Size 6 inches thick x 12 inches long x 18 inches high including the cost of Cartage, excavation, form Work for haunching, 1450PSI lean concrete, 2250PSI concrete for haunching, 1:4 cement sand mortar.	500	Rft		
57	providing and Laying gera as approved by engineer upto 2ft under pavours complete with compaction and watering.	8,000	cft		
Sub Total for Civil Works					

BILL OF QUANTITIES

Client / Owner : Project Implementation Unit
Name of Project : Rehabilitation of Dumlottee Well (Well No. 09)
Name of Work : Civil / Plumbing & Electrical Works

Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
CONSTRUCTION OF LAKE RESERVOIR					
1	Excavation for trenches, and pits in soft soils i/c trimming addressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth in required area any lead & lift also refilling watering ramming & compaction around structure as directed by Engineer Incharge. Providing fence guards, lights, flag etc as per side requirement.	150,000	Cft		
2	Providing and laying SF56 - 190 GSM 100% Polypropylene Mechanically and Thermally Bonded Isotropic Geotextile or approved equivalent. Including overlapping complete with all respects as per drawings, details and as per approved by the consultants / Engineer Incharge.	35,000	Sft		
3	Providing and laying 1mm thick PVC Geomembrane Liner as per ASTM D7176-06 (Impervious Layer) or approved equivalent. Including overlapping and field seam testing of PVC Geomembrane liner as per ASTM D7177. Complete in all respects as per drawings, details and as per approved by the Consultants / Engineer Incharge.	35,000	Sft		
4	Providing and laying NP17 -150 GSM Polypropylene Needle-Punched Geotextile or approved equivalent. Including overlapping complete with all respects as per drawings, details and as per approved by the consultants / Engineer Incharge.	35,000	Sft		
5	Providing and laying fibre reinforced cement concrete consisting of Class B Concrete, 100% Polypropylene Fibrillated Fiber DCF-25/13 (Dosage is 1.8 kg per cubic meter) or approved equivalent excluding formwork. Including hoisting, placing, compacting, finishing, curing complete in all respects as per drawings, details and as per approved by the consultants / Engineer Incharge.	12,000	Cft		
6	Providing and laying Gravel in trenches as per approved size and thickness. Including leveling and compacting where required complete in all respects as per drawings, details and as per approved by the Consultants / Engineer Incharge.	35,000	Cft		
7	Providing and laying cement concrete consisting of 1:4:8 Concrete, Including hoisting, placing, compacting, finishing, curing complete in all respects as per drawings, details and as per approved by the consultants / Engineer Incharge.	10,000	Cft		
Sub total of Lake Reservoir					



BILL OF QUANTITIES

Client / Owner : Project Implementation Unit
 Name of Project : Rehabilitation of Dumlottee Well (Well No. 09)
 Name of Work : Civil / Plumbing & Electrical Works

Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
	Tubewell				
1	Drilling in all kinds of soils, strata & rocks, with 8"- 10" Ø bit including mobilization of straight rotary drilling machinery and equipment, material, accessories, staff & labor. 00ft -- 1000ft.	2,000			
2	Sampling of strata for the study of soil-formation encountered after every 10ft. of interval or change of strata.	2	No		
3	Enlargement of 8" dia test bore into 12" dia in all types of soils.	2,000			
4	Providing sanitary seal to avoid the upper polluted water from the tube well with grouting material (sand, silica, S.R. cement) in 1:1:1 to avoid polluted upper zone water from entering into the well.	50	Rft		
5	Long duration pumping test to collect hydraulic data for the finalization of permanent pump & motor by placing temporary high-rated suction pump, motor & run it for 24 hours to check the static water level, dynamic water level, draw down, well recharging time to provide the specifications for permanent submersible pump & motor along with safe continuous discharge range and pump setting depth. (Lumpsum)	2	No.		
6	Chemical analysis of water samples	2	No.		
7	Providing, Lowering Screen and Blank of 8" Ø UPVC "D" casing according to the proposed tube well, complete with all necessary fittings, (S.S cone, cut-screw, jointing solution, centralizers, etc.)	2,000	Rft		
8	Providing of silica graded peagravel from kohistan origin & pouring of gravel shrouding in-between the annular space of borehole walls & uPVC casing with the help of water circulation. The size of the graded gravel must be in accordance with the thickness of the UPVC filter slots. (Lumpsum)	2	Job		
9	Supply of (Brand New) Stainless Steel Submersible Pump, Motor - China.				
		2	Set		
10	Supply of Motor Control Unit (25 HP) ECOR, Toggle ON/OFF switch, Ammeter, Voltmeter, Contactor, Breakers, switches complete in all respects. (Lumpsum)	2	No.		
11	Supply of 2½" dia M.S. Riser Pipes with flanged ends.	800	Rft		
12	Supply of Submersible Drop Cable (3 core)	1,600	Rft		
13	Supply of Cover plate (M.S), S.S. Nut bolts, Rubber packing, Cable tie, Clamps 2½" dia (G.I) (Lumpsum)	2	Job		
Sub total of Tube Well					



BILL OF QUANTITIES

Client / Owner : Project Implementation Unit
 Name of Project : Rehabilitation of Dumlottee Well (Well No. 09)
 Name of Work : Civil / Plumbing & Electrical Works

Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
ELECTRICAL WORKS					
1	LV CABLE				
	Supply, installation, testing and commissioning of LV cable 600/1000V stranded aluminum conductor, XLPE insulated, Extruded PVC bedded, steel wire armored and PVC sheathed overall, laid in trenches excavated in all types of soil and backfilled complete with bricks, soft sand cushion, warning tape and Marker as directed by the Consultant Engineer. Depth of cable is 1.0 m. (Inclusive cost of excavation & back filling).				
i	4C- 95 Sq.mm XLPE/PVC (Cu) Armored from PMT to DB-01	803	Rft		
ii	4C- 95 Sq.mm XLPE/PVC (Cu) Armored from PMT to DB-01	803	Rft		
iii	4C- 50 Sq.mm XLPE/PVC (Cu) Armored from DB-01 to Borewell (near Well-10)	852	Rft		
iv	4C- 50 Sq.mm XLPE/PVC (Cu) Armored from DB-02 to Borewell (near Well-09)	852	Rft		
2	DISTRIBUTION BOARD				
	Transfer, including all material, tools, labor & accessories required for completion of works, Complete in all aspect. Contractor should submit the Shop drawings for approval before commencement of work. Refer Single Line Diagram.				
	Distribution Board	2	No.		
	EARTHING				



Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
i	<p>Earthing is required (Supply and fixing) to give earth resistance value less than or equal to 3 Ω and it should not deteriorate with time. The bidder should include in his bid the following items per earthing:-</p> <p>a) Copper Clad steel rods 20meters inlength. Each copper clad steel rod shall have 20mm dia, in 3m sections, extendable to 20m depth with chemical Earthing Powder. OF</p> <p>b) Copper Clad steel Rods 20mm dia 3meters inlength. connected with 17meters 3/0 SWG Copper conductor. 3/0 Copper conductor shall have earth Plate (4" x4" x3/8") at its end with chemical Earthing Powder.</p> <p>The Copper Clad Steel Rod shall be connected with 3/0 SWG copper conductor upto ECP(Earthing Connecting Point). Complete with excavation / boring, civil works, and heavy duty cover with back fill approved chemical compound such as hydroscopic material GRIP (Ground Resistance Improvement Powder).</p> <p>Bidder should assess site conditions and include additional Earthing rods if required to achieve specified resistance.</p>	4	Job		
ii	70 Sq.mm bare Cu conductor	100	Rft		
iii	Earth Connecting Point (ECP)MS Coated 14" SWG with Insulator, size (14"x5"x4")	4	No.		
3	ROAD-CROSSING G.I. SLEEVES, PVC CONDUIT & HAND HOLE				
i	Supply, Excavation, laying, jointing, Back filling and compaction of UPVC 6" dia pipes with endcap for LV Cable as per requirements, standards, specifications, and to the approval of the Consultant Engineer.	100	Rft		
ii	Hand Hole 24" x 24" x 24" with heavy duty liftable cover.	20	No.		
4	ROUTE MARKER				
i	Supply and installation of Route Marker for MV/LV/OFC Cable as per instruction of the Site Consultant Engineer and Specifications.	6	No.		
5	DECORATIVE 8M HIGH POLE, ARMS AND FIXTURES				



Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
	<p>Supply, Installation, testing and commissioning of Decorative Street Light Tubular 8-meter high Pole as approved. Pole should be MS powder coated paint with approved color including arms and foundation. As per underspecification, drawings and Consultant Engineer approval.</p> <p>Pole & Base:</p> <ul style="list-style-type: none"> • microns: 80/100 - Powder Coated • Wall thickness: 4/5 mm • Diameters: 114mm and 90mm. • Self inspection door with special key • Stiffeners: 04 nos. • Base plate: 300mm X 300mm X 15mm or 20mm thick • Product Warranty: 5 years <p>Decorative Light Fixtures:</p> <ul style="list-style-type: none"> • Lumens: 120 to 150 lm per watt, • Wattage: 90W/100W/110W (Recm 100W) • Voltage: 220/230VAC • Product Life \geq 50,000 hrs • Color temperature: 3500/3200K <p>Standards Req for complete System (Pole/LED Light fixtures etc)</p> <ul style="list-style-type: none"> • NV65/EN40 standard for wind speed of 165-185 km/h. • IK08/IK09 or equivalent compliance required • IEC60598 or equivalent compliance required • IP66/IP67 or equivalent compliance required <p>Wiring & Terminal Box:</p> <p>Supply of 3 x 1.5 Sq. mm pvc Cable Terminate from Terminal Box (4A, DP MCB) to Light Fixtures, as per DWG.</p> <p>Contractor also proper terminate 4C armored power cable + Earth (6sq. mm Pvc Cable 1m) from already laid bare conductor to Terminal Box.</p>				
i	Single Arm Pole	12	No.		
	Double Arm Pole	15	No.		
	Three Arm Pole	5	No.		
iv	Four Arm Pole (12m high Pole as approved by Engr. Pole specs must comply as per standard)	4	No.		
6	LED LIGHT FIXTURES				
	10W Bollard Light	20	No.		
7	LV CABLE				
	Supply, installation, testing and commissioning of LV cable 600/1000V stranded aluminum conductor, XLPE insulated, Extruded PVC bedded, steel wire armored and PVC sheathed overall, laid in trenches excavated in all types of soil and backfilled complete with bricks, soft sand cushion, warning tape and Marker as directed by the Consultant Engineer. Depth of cable is 0.9 m. (Inclusive cost of excavation & back filling).				
i	From DB-01 to Street Light Controller Panel (SLCP)-1 <i>AC-16 Co. mm XLPE (PVC) AD Approved</i>	30	Rft		
ii	From DB-02 to Street Light Controller Panel (SLCP)-2 <i>AC-16 Co. mm XLPE (PVC) AD Approved</i>	30	Rft		
8	STREET LIGHT CONTROL PANEL (SLCP)				



Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
	Supply, Installation Testing & commissioning of Street Light Control Panel, including Timer, Magnetic contactor, Surge Protection, Neutral Busbar with all installation accessories as directed by the Engineers with as under details also consider appropriate size of foundation as approved by Site Consultant Engineer. Note:- Fiber Box Req (HxWxD = 2.5' x 2' x 8") with IP 66				
i	SLP (Street Light Panel-5Way)	2	No.		
9	SWITCHES & SOCKETS				
	Supply and Installation of following 15/20 Amps, one-way, gang type switches /socket outlets including back boxes, recessed on wall or as per design drawings with all material, tools, labor & accessories required for completion of works, Complete in all aspect.				
i	10A, 220V One way Switch Unit	2	No.		
		4	No.		
		8	No.		
		4	sets		
	Floor Box 1' x 1' with Two Power socket and 2 Data Point	4	No.		
	32A Isolator	2	No.		
10	LIGHT FIXTURES & FAN				
	lighting fixture with compatible drivers and electronics devices, including all material, tools, labor & accessories required for completion of works, Complete in all aspect.				
	Recessed LED Panel 2' x 2' Light fixture 40W, Color 4000K	8	No.		
	Recessed 15W LED Down Light fixtures, Color 4000K	4	No.		
	Exhaust Fan 1'x1'	4	No.		
		4	No.		
		4	No.		
11	WIRING WORKS				
	Supply, Laying, Testing and Commissioning of following wiring Copper Cables 450/750V, as per standard BS-6500 & BS-7655, including all material, tools, labor & accessories required for completion of works, Complete in all aspect.				
i	Circuit wiring from DB to Switch board and switch to switch with 3x2.5 sq.mm in 25mm dia conduit, complete in all aspect.	4	No.		

Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
ii	Circuit wiring from Switch board to light point with 3x2.5 sq.mm in 25mm dia conduit, complete in all aspect.	18	No.		
iii	Circuit wiring from light point to light point with 3x1.5 sq.mm in 20mm dia conduit, complete in all aspect.	6	No.		
iv	Circuit wiring from DB to Power socket point with 3x4 sq.mm in 25mm dia conduit, complete in all aspect.	4	No.		
v	Circuit wiring from Power socket point to point with 3x4 sq.mm in 25mm dia conduit, complete in all aspect.	8	No.		
Sub total of Electrical General Works					



BILL OF QUANTITIES

Client / Owner : Project Implementation Unit
 Name of Project : Rehabilitation of Dumlottee Well (Well No. 09)
 Name of Work : Civil / Plumbing & Electrical Works

Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
12	SOLAR SYSTEM 80KW				
i	supply and installation of Solar Panels 585WBifacial, Mono Perc	150	No		
ii	supply and installation of Inverter DCCoupled Charging / Discharging	3	No		
iii	supply and installation of Data logger Energy Management System	1	No		
iv	Battery Cabinet: Lithium Ion 197/200kWh	2	No		
v	Supply and installation of inverter stand, locally fabricated MS Structure based as per the specification, complete in all respect	3	No		
vi	Supply and installation of Battery stand, locally fabricated MS Structure based including Civil Pads for Batteries as per the specification, complete in all respect.	3	No		
vii	Supply and installation of Mounting structure of Solar panels with MS Epoxy complete in all respect.	150	No		
viii	supply and installation of offline Fuse for PV Protection Complete in all respect.	10	No		
ix	Supply and installation of Combiner 200A4 Pole 50KA- 5x 250A 4P 25KA Circuit Breakers with energy analyzer. Including AC SPD, DB Box etc for AC Protection complete in all respect.	1	No		
x	Supply and installation of 400A Circuit Breaker 6nos for DC Protection, Complete in all respect.	1	No		
xi	Supply and installation of 1C- 4Sqmm Flexible Cable for DC Circuits.	3000	Rm		
xii	Supply and installation of 4C-35Sqmm CU/ XLPE /PVC cable for AC Connection of Inverter	20	Rm		
xiii	Supply and installation of 1C-185Sqmm CU/ XLPE /PVC cable for AC Connection of Combiner	30	Rm		
xiv	Supply and installation of 1C- 2.5Sqmm CU/ XLPE /PVC cable for Earthing Loops of Solar panel.	25	Rm		
xv	Supply and installation of 1C- 10Sqmm CU/ XLPE /PVC Earthing Cable for Inverter	15	Rm		
xvi	Supply and installation of 1C- 35Sqmm CU/ XLPE /PVC Earthing Cable for Combiner	15	Rm		
xvii	Supply and installation of Busbars for Batteries complete in all respect.	3	No		
xviii	Supply and installation of Earthing Pit for Solar system complete in all respect as per the specification mentioned in the earthing section.	3	Job		
xvix	Supply and installation of (ESE) Early Streamer Emission for Lightning Arrestor.	1	No		
xx	Testing and Commissioning of solar System as per the specification and Design complete in all respect.	1	Job		
12a	LV CABLE				
i	4C- 95 Sq.mm XLPE/PVC (Cu) Armored from Solar Panel to DB-01	200	Rft		
ii	4C- 95 Sq.mm XLPE/PVC (Cu) Armored from Solar Panel to DB-02	200	Rft		
Sub Total of Solar					

BILL OF QUANTITIES

Client / Owner : Project Implementation Unit

Name of Project : Rehabilitation of Dumlottee Well (Well No. 09)

Name of Work : Civil / Plumbing & Electrical Works

Sr. No.	Particulars	Qty.	Unit	Rate (Rs.)	Amount (Rs)
13	GENERATOR				
i	<p>Supply, Installation, Testing & commissioning of 100kVA Prime Rated Diesel Generator Sets with Standard Canopy(81db at1 operating on 3-phase, 400V, 50Hz, 1500rpm, Water Cooled Diesel generating sets, suitable for operation at50°C inside Canopywith HMI andelectronic governer, and90% relative humidity assembled in accordance with their provided drawings / manuals and consisting of painted welded steel bed plate frame work to accommodate engine alternator complete with balanced flywheel, water jacket heaters energized bythe incoming main supply, heavy duty starting batteries, battery charger, hourruns meter, KWH meter, emergency stop push button, radiator, with water level switch, fuel tank (Standard bas tank & Day tank), pipingworks, consisting of black steel pipeschedule 40,fuel pump, exhaust system residential type silencer, 400/230 V,50 Cycles/second, at 1500 RPM, for 3 phase 4 wire system.</p> <p>The work also includes but not limited to</p> <ul style="list-style-type: none"> - Transportation upto site - 1/2 thick neuprene Sheet and - placement on foundation pads - Vibration Isolators, leveling and grouting <p>DG Sets shall bewithout power panelsexcept for those which has built-in circuit breaker</p> <p>The work also includes allied mechanical andelectrical works including material, labor, tools, accessories etc. Complete inall respects.</p> <p>Note: Onload testing (100%, 75%and 50%)of DGset with material required for 4hours operation inclusive of fuel, engineoil, load bank etc.</p>	1	No.		
	LV CABLE				
i	4C- 95 Sq.mm XLPE/PVC (Cu) Armored from Generator to DB-01	200	Rft		
ii	4C- 95 Sq.mm XLPE/PVC (Cu) Armored from Generator to DB-02	200	Rft		
	Sub Total of Generator				

