



Federal Board of Revenue
Revenue Division – Government of Pakistan

Request for Bids

(One-Envelope Bidding Process)

Procurement and Installation of Generators for Digital Enforcement Stations (DES) at Indus Sites, Phase-I (10 DES Sites)

Country:	Pakistan
Project Name:	Pakistan Raises Revenue Program
Implementing Agency:	Federal Board of Revenue (FBR)
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Standard Procurement Document

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PART 1 – Bidding Procedures

Section I - Instructions to Bidders

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Section I. Instructions to Bidders

A. General	
1. Scope of Bid	1.1 In connection with the Specific Procurement Notice / Request for Bids (RFB), specified in the Bid Data Sheet (BDS), the Purchaser, as specified in the BDS, issues this bidding document for the supply of Goods and, if applicable, any Related Services incidental thereto, as specified in Section VII, Schedule of Requirements. The name, identification and number of lots (contracts) of this RFB are specified in the BDS. 1.2 Throughout this bidding document: (a) the term “in writing” means communicated in written form (e.g., by mail, e-mail, fax, including if specified in the BDS, distributed or received through the electronic-procurement system used by the Purchaser) with proof of receipt; (b) if the context so requires, “singular” means “plural” and vice versa; and (c) “Day” means calendar day, unless otherwise specified as “Business Day”. A Business Day is any day that is an official working day of the Borrower. It excludes the Borrower’s official public holidays.
2. Source of Funds	2.1 The Borrower or Recipient (hereinafter called “Borrower”) specified in the BDS has applied for or received financing (hereinafter called “funds”) from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called “the Bank”) in an amount specified in the BDS, toward the project named in the BDS. The Borrower intends to apply a portion of the funds to eligible payments under the contract for which this bidding document is issued. 2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the Loan account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import is prohibited by decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party

	other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).
3. Fraud and Corruption	3.1 The Bank requires compliance with the Bank's Anti-Corruption Guidelines / Policy (as amended from time to time) and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Section VI, Fraud and Corruption. 3.2 In further pursuance of this policy, Bidders shall permit and shall cause their agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit the Bank to inspect all accounts, records and other documents relating to any initial selection process, prequalification process, bid submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.
4. Eligible Bidders	4.1 A Bidder may be a firm that is a private entity, a state-owned enterprise or institution subject to ITB 4.6, or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Bidding process and, in the event the JV is awarded the Contract, during contract execution. Unless specified in the BDS, there is no limit on the number of members in a JV. 4.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this Bidding process, if the Bidder: (a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or (b) receives or has received any direct or indirect subsidy from another Bidder; or (c) has the same legal representative as another Bidder; or (d) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the Bid of another Bidder, or influence the

	decisions of the Purchaser regarding this Bidding process; or (e) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works, goods & related services that are the subject of the Bid; or (f) or any of its affiliates has been hired (or is proposed to be hired) by the Purchaser or Borrower for the Contract implementation; or (g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or (h) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding document or specifications of the Contract, and/or the Bid evaluation process of such Contract; or (ii) would be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the Bidding process and execution of the Contract.
4.3	A firm that is a Bidder (either individually or as a JV member) shall not participate in more than one Bid, except for permitted alternative Bids. This includes participation as a subcontractor. Such participation shall result in the disqualification of all Bids in which the firm is involved. A firm that is not a Bidder or a JV member, may participate as a subcontractor in more than one Bid.
4.4	A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.8 and ITB 4.9. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of

	proposed subcontractors or subconsultants for any part of the Contract including related Services. 4.5 A Bidder that has been sanctioned by the Bank, pursuant to the Bank’s Anti-Corruption Guidelines, in accordance with its prevailing sanctions policies and procedures as set forth in the WBG’s Sanctions Framework as described in Section VI paragraph 2.2 d., shall be ineligible to be prequalified for, initially selected for, bid for, propose for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address specified in the BDS. 4.6 Bidders that are state-owned enterprises or institutions in Pakistan may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to the Bank, that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not under supervision of the Purchaser. 4.7 A Bidder shall not be under suspension from Bidding by the Purchaser as the result of the operation of a Bid–Securing Declaration or Proposal-Securing Declaration. 4.8 Firms and individuals may be ineligible if so indicated in Section V, Eligible Countries, and (a) as a matter of law or official regulations, Pakistan prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Pakistan prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country. 4.9 A Bidder shall provide such documentary evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request. 4.10 A firm that is under a sanction of debarment by the Borrower from being awarded a contract is eligible to participate in this procurement, unless the Bank, at the Borrower’s request, is satisfied that the debarment; (a) relates to fraud or corruption; and
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	(b) followed a judicial or administrative proceeding that afforded the firm adequate due process.
5. Eligible Goods and Related Services	5.1 All the Goods and Related Services to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries. 5.2 For purposes of this ITB, the term “goods” includes commodities, raw material, machinery, equipment, and industrial plants; and “related services” includes services such as insurance, installation, training, and initial maintenance. 5.3 The term “origin” means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.
B. Contents of Request for Bids Document	
6. Sections of Bidding Document	6.1 The bidding document consist of Parts 1, 2, and 3, which include all the sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 8. PART 1 Bidding Procedures • Section I - Instructions to Bidders (ITB) • Section II - Bidding Data Sheet (BDS) • Section III - Evaluation and Qualification Criteria • Section IV - Bidding Forms • Section V - Eligible Countries • Section VI - Fraud and Corruption
	PART 2 Supply Requirements • Section VII - Schedule of Requirements (SOR) PART 3 Contract • Section VIII - General Conditions of Contract (GCC)

	• Section IX - Special Conditions of Contract (SCC) • Section X - Contract Forms
	6.2 The Specific Procurement Notice, Request for Bids (RFB), issued by the Purchaser is not part of this bidding document. 6.3 Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre-Bid meeting (if any), or Addenda to the bidding document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Purchaser shall prevail. 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding document and to furnish with its Bid all information or documentation as is required by the bidding document.
7. Clarification of Bidding Document	7.1 A Bidder requiring any clarification of the bidding document shall contact the Purchaser in writing at the Purchaser's address specified in the BDS. The Purchaser will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of Bids within a period specified in the BDS. The Purchaser shall forward copies of its response to all Bidders who have acquired the bidding document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so specified in the BDS, the Purchaser shall also promptly publish its response at the web page identified in the BDS. Should the clarification result in changes to the essential elements of the bidding document, the Purchaser shall amend the bidding document following the procedure under ITB 8 and ITB 22.2.
8. Amendment of Bidding Document	8.1 At any time prior to the deadline for submission of Bids, the Purchaser may amend the bidding document by issuing addenda. 8.2 Any addendum issued shall be part of the bidding document and shall be communicated in writing to all who have obtained the bidding document from the Purchaser in accordance with ITB 6.3. The Purchaser shall also promptly publish the addendum on the Purchaser's web page in accordance with ITB 7.1.

	8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2.
C. Preparation of Bids	
9. Cost of Bidding	9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.
10. Language of Bid	10.1 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Purchaser, shall be written in the language specified in the BDS . Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into the language specified in the BDS , in which case, for purposes of interpretation of the Bid, such translation shall govern.
11. Documents Comprising the Bid	11.1 The Bid shall comprise the following: (a) Letter of Bid prepared in accordance with ITB 12; (b) Price Schedules: completed in accordance with ITB 12 and ITB 14; (c) Bid Security or Bid-Securing Declaration, in accordance with ITB 19.1; (d) Alternative Bid: if permissible, in accordance with ITB 13; (e) Authorization: written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.3; (f) Qualifications: documentary evidence in accordance with ITB 17 establishing the Bidder's qualifications to perform the Contract if its Bid is accepted; (g) Bidder's Eligibility: documentary evidence in accordance with ITB 17 establishing the Bidder's eligibility to bid; (h) Eligibility of Goods and Related Services: documentary evidence in accordance with ITB 16, establishing the eligibility of the Goods and Related Services to be supplied by the Bidder;

	(i) Conformity: documentary evidence in accordance with ITB 16 and 30, that the Goods and Related Services conform to the bidding document; and (j) any other document required in the BDS. 11.2 In addition to the requirements under ITB 11.1, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement. 11.3 The Bidder shall furnish in the Letter of Bid information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.
12. Letter of Bid and Price Schedules	12.1 The Letter of Bid and Price Schedules shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.3. All blank spaces shall be filled in with the information requested.
13. Alternative Bids	13.1 Unless otherwise specified in the BDS, alternative Bids shall not be considered.
14. Bid Prices and Discounts	14.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Price Schedules shall conform to the requirements specified below. 14.2 All lots (contracts) and items must be listed and priced separately in the Price Schedules. 14.3 The price to be quoted in the Letter of Bid in accordance with ITB 12.1 shall be the total price of the Bid, excluding any discounts offered. 14.4 The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid, in accordance with ITB 12.1. 14.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, unless otherwise specified in the BDS. A Bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected, pursuant to ITB 29. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a Bid

	submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero. 14.6 If so specified in ITB 1.1, Bids are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise specified in the BDS, prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer discounts for the award of more than one Contract shall specify in their Bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITB 14.4 provided the Bids for all lots (contracts) are opened at the same time. However, discounts that are conditional on the award of more than one lot, or any cross discount, will not be considered for bid evaluation purpose. 14.7 The terms EXW, CIP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce, as specified in the BDS. 14.8 Prices shall be quoted as specified in each Price Schedule included in Section IV, Bidding Forms. The disaggregation of price components is required solely for the purpose of facilitating the comparison of Bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V, Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V, Eligible Countries. Prices shall be entered in the following manner: (a) For Goods manufactured in Pakistan: (i) the price of the Goods quoted EXW (ex-works, ex-factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods; (ii) any sales tax and other taxes which will be payable on the Goods in Pakistan if the Contract is awarded to the Bidder; and
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	(iii) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination (Project Site) specified in the BDS. (b) For Goods manufactured outside Pakistan, to be imported: (i) the price of the Goods, quoted CIP named place of destination, in Pakistan, as specified in the BDS; (ii) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) specified in the BDS; (c) For Goods manufactured outside Pakistan, already imported: (i) the price of the Goods, including the original import value of the Goods; plus, any mark-up (or rebate); plus any other related local cost, and custom duties and other import taxes already paid or to be paid on the Goods already imported; (ii) the custom duties and other import taxes already paid (need to be supported with documentary evidence) or to be paid on the Goods already imported; (iii) the price of the Goods, obtained as the difference between (i) and (ii) above; (iv) any sales and other taxes which will be payable on the Goods in Pakistan if the Contract is awarded to the Bidder; and (v) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination (Project Site) specified in the BDS. (d) for Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements, the price of each item comprising the Related Services (inclusive of any applicable taxes).
15. Currencies of Bid and Payment	15.1 The currency(ies) of the Bid and the currency(ies) of payments shall be the same. The Bidder shall quote in PKR

	(Pak Rupee) the portion of the Bid price that corresponds to expenditures incurred in Pakistan, unless otherwise specified in the BDS. 15.2 Subject to BDS the Bidder may express the Bid price in any currency. If the Bidder wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but shall use no more than three foreign currencies in addition to PKR (Pak Rupee).
16. Documents Establishing the Eligibility and Conformity of the Goods and Related Services	16.1 To establish the eligibility of the Goods and Related Services in accordance with ITB 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms. 16.2 To establish the conformity of the Goods and Related Services to the bidding document, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section VII, Schedule of Requirements. 16.3 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII, Schedule of Requirements. 16.4 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the BDS following commencement of the use of the goods by the Purchaser. 16.5 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Section VII, Schedule of Requirements.

17. Documents Establishing the Eligibility and Qualifications of the Bidder	17.1 To establish Bidder's eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid, included in Section IV, Bidding Forms. 17.2 The documentary evidence of the Bidder's qualifications to perform the Contract if its Bid is accepted shall establish to the Purchaser's satisfaction: (a) that, if required in the BDS, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Pakistan; (b) that, if required in the BDS, in case of a Bidder not doing business within Pakistan, the Bidder is or will be (if awarded the Contract) represented by an Agent in Pakistan equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and (c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.
18. Period of Validity of Bids	18.1 Bids shall remain valid until the date specified in the BDS or any extended date if amended by the Purchaser in accordance with ITB 8. A Bid that is not valid until the date specified in the BDS, or any extended date if amended by the Purchaser in accordance with ITB 8, shall be rejected by the Purchaser as nonresponsive. 18.2 In exceptional circumstances, prior to the expiry of the Bid validity, the Purchaser may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB 19, it shall also be extended for twenty-eight (28) days beyond the extended date for Bid validity. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid, except as provided in ITB 18.3. 18.3 If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial Bid validity period, the Contract price shall be determined as follows:

	(a) in the case of fixed price contracts, the Contract price shall be the Bid price adjusted by the factor specified in the BDS; (b) in the case of adjustable price contracts, no adjustment shall be made; (c) in any case, Bid evaluation shall be based on the Bid price without taking into consideration the applicable correction from those indicated above.
19. Bid Security	19.1 The Bidder shall furnish as part of its Bid, either a Bid-Securing Declaration or a Bid Security, as specified in the BDS, in original form and, in the case of a Bid Security, in the amount and currency specified in the BDS. 19.2 A Bid Securing Declaration shall use the form included in Section IV, Bidding Forms. 19.3 If a Bid Security is specified pursuant to ITB 19.1, the Bid Security shall be a demand guarantee in any of the following forms at the Bidder's option: (a) an unconditional and irrevocable guarantee issued by a scheduled bank situated in Pakistan; (b) an irrevocable letter of credit; (c) a cashier's or certified check; or (d) another security specified in the BDS, from a reputable source, and an eligible country. Any guarantee issued by a non-bank financial institution is not acceptable. In the case of a bank guarantee, the Bid Security shall be submitted either using the Bid Security Form included in Section IV, Bidding Forms, or in another substantially similar format approved by the Purchaser prior to Bid submission. The Bid Security shall be valid for twenty-eight (28) days beyond the original date of expiry of the Bid validity, or beyond any extended date if requested under ITB 18.2. 19.4 If a Bid Security is specified pursuant to ITB 19.1, any Bid not accompanied by a substantially responsive Bid Security shall be rejected by the Purchaser as non-responsive. 19.5 If a Bid Security is specified pursuant to ITB 19.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the Contract and furnishing the Performance Security pursuant to ITB 46.

	19.6 The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required Performance Security. 19.7 The Bid Security may be forfeited: (a) if a Bidder withdraws its Bid prior to the expiry date of Bid validity specified by the Bidder on the Letter of Bid or any extended date provided by the Bidder; or (b) if the successful Bidder fails to: (i) sign the Contract in accordance with ITB 45; or (ii) furnish a Performance Security in accordance with ITB 46. 19.8 The Bid Security or Bid- Securing Declaration of a JV must be in the name of the JV that submits the Bid. If the JV has not been legally constituted into a legally enforceable JV at the time of Bidding, the Bid Security or Bid-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITB 4.1 and ITB 11.2. 19.9 If a Bid Security is not required in the BDS, pursuant to ITB 19.1, and (a) if a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Letter of Bid, or any extended date provided by the Bidder; or (b) if the successful Bidder fails to: sign the Contract in accordance with ITB 45; or furnish a performance security in accordance with ITB 46; the Borrower may, if provided for in the BDS, declare the Bidder ineligible to be awarded a contract by the Purchaser for a period of time as stated in the BDS.
20. Format and Signing of Bid	20.1 The Bidder shall prepare one original of the documents comprising the Bid as described in ITB 11 and clearly mark it “ORIGINAL.” Alternative Bids, if permitted in accordance with ITB 13, shall be clearly marked “ALTERNATIVE.” In addition, the Bidder shall submit copies of the Bid, in the number specified in the BDS and clearly mark them “COPY.” In the event of any discrepancy between the original and the copies, the original shall prevail. 20.2 Bidders shall mark as “CONFIDENTIAL” information in their Bids which is confidential to their business. This may

	include proprietary information, trade secrets, or commercial or financially sensitive information. 20.3 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid. 20.4 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives [that shall be attached to the Bid]. 20.5 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.
D. Submission and Opening of Bids	
21. Sealing and Marking of Bids	21.1 The Bidder shall deliver the Bid in a single, sealed envelope (one-envelope Bidding process). Within the single envelope the Bidder shall place the following separate, sealed envelopes: (a) in an envelope marked “ORIGINAL”, all documents comprising the Bid, as described in ITB 11; and (b) in an envelope marked “COPIES”, all required copies of the Bid; and, (c) if alternative Bids are permitted in accordance with ITB 13, and if relevant: i. in an envelope marked “ORIGINAL -ALTERNATIVE”, the alternative Bid; and ii. in the envelope marked “COPIES – ALTERNATIVE BID” all required copies of the alternative Bid. 21.2 The inner and outer envelopes, shall: (a) bear the name and address of the Bidder; (b) be addressed to the Purchaser in accordance with ITB 22.1;

	(c) bear the specific identification of this Bidding process indicated in ITB 1.1; and (d) bear a warning not to open before the time and date for Bid opening. 21.3 If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the Bid.
22. Deadline for Submission of Bids	22.1 Bids must be received by the Purchaser at the address and no later than the date and time specified in the BDS. When so specified in the BDS, Bidders shall have the option of submitting their Bids electronically. Bidders submitting Bids electronically shall follow the electronic Bid submission procedures specified in the BDS. 22.2 The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the bidding document in accordance with ITB 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
23. Late Bids	23.1 The Purchaser shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 22. Any Bid received by the Purchaser after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.
24. Withdrawal, Substitution, and Modification of Bids	24.1 A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITB 20.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be: (a) prepared and submitted in accordance with ITB 20 and 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” or “MODIFICATION;” and (b) received by the Purchaser prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.

	24.2 Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders. 24.3 No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Letter of Bid or any extension thereof.
25. Bid Opening	25.1 Except as in the cases specified in ITB 23 and ITB 24.2, the Purchaser shall, at the Bid opening, publicly open and read out all Bids received by the deadline at the date, time and place specified in the BDS in the presence of Bidders' designated representatives and anyone who chooses to attend. Any specific electronic Bid opening procedures required if electronic bidding is permitted in accordance with ITB 22.1, shall be as specified in the BDS. 25.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but returned to the Bidder. If the withdrawal envelope does not contain a copy of the "power of attorney" confirming the signature as a person duly authorized to sign on behalf of the Bidder, the corresponding Bid will be opened. No Bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Bid opening. 25.3 Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Bid opening. 25.4 Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening. 25.5 Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the total Bid Prices, per lot (contract) if applicable, including any discounts and alternative Bids; the presence or absence of a Bid Security, if required; and any other details as the Purchaser may consider appropriate.

	25.6 Only Bids, alternative Bids and discounts that are opened and read out at Bid opening shall be considered further in the evaluation. The Letter of Bid and the Price Schedules are to be initialed by representatives of the Purchaser attending Bid opening in the manner specified in the BDS. 25.7 At the Bid opening the Purchaser shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with ITB 23.1). 25.8 Following the opening of the Bids, the Purchaser shall prepare a record of the Bid opening that shall include, as a minimum: (a) the name of the Bidder and whether there is a withdrawal, substitution, or modification; (b) the Bid Price, per lot (contract) if applicable, including any discounts; (c) any alternative Bids; (d) the presence or absence of a Bid Security or Bid-Securing Declaration if one was required. 25.9 The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.
E. Evaluation and Comparison of Bids	
26. Confidentiality	26.1 Information relating to the evaluation of Bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until the information on Intention to Award the Contract is transmitted to all Bidders in accordance with ITB 40. 26.2 Any effort by a Bidder to influence the Purchaser in the evaluation or contract award decisions may result in the rejection of its Bid. 26.3 Notwithstanding ITB 26.2, from the time of Bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the Bidding process, it should do so in writing.
27. Clarification of Bids	27.1 To assist in the examination, evaluation, comparison of the Bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid.

	Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the Bids, in accordance with ITB 31. 27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Purchaser's request for clarification, its Bid may be rejected.
28. Deviations, Reservations, and Omissions	28.1 During the evaluation of Bids, the following definitions apply: (a) "Deviation" is a departure from the requirements specified in the bidding document; (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and (c) "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.
29. Determination of Responsiveness	29.1 The Purchaser's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in ITB 11. 29.2 A substantially responsive Bid is one that meets the requirements of the bidding document 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 Goods and Related Services specified in the Contract; or (ii) limit in any substantial way, inconsistent with the bidding document, the Purchaser's rights or the Bidder's obligations under the Contract; or (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.

	29.3 The Purchaser shall examine the technical aspects of the Bid submitted in accordance with ITB 16 and ITB 17, in particular, to confirm that all requirements of Section VII, Schedule of Requirements have been met without any material deviation or reservation, or omission. 29.4 If a Bid is not substantially responsive to the requirements of bidding document, it shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.
30. Nonconformities, Errors and Omissions	30.1 Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformities in the Bid. 30.2 Provided that a Bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission 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. 30.3 Provided that a Bid is substantially responsive, the Purchaser 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 substantially responsive Bidders. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Purchaser shall use its best estimate.
31. Correction of Arithmetical Errors	31.1 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis: (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;

	(b) 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; and (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above. 31.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB 31.1, shall result in the rejection of the Bid.
32. Conversion to Single Currency	32.1 For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted in a single currency as specified in the BDS.
33. Margin of Preference	33.1 Unless otherwise specified in the BDS, a margin of preference shall not apply.
34. Evaluation of Bids	34.1 The Purchaser shall use the criteria and methodologies listed in this ITB and Section III, Evaluation and Qualification criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies, the Purchaser shall determine the Most Advantageous Bid. This is the Bid of the Bidder that meets the qualification criteria and whose Bid has been determined to be: (a) substantially responsive to the bidding document; and (b) the lowest evaluated cost. 34.2 To evaluate a Bid, the Purchaser shall consider the following: (a) evaluation will be done for Items or Lots (contracts), as specified in the BDS; and the Bid Price as quoted in accordance with ITB 14; (b) price adjustment for correction of arithmetic errors in accordance with ITB 31.1; (c) price adjustment due to discounts offered in accordance with ITB 14.5; (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 32;

	(e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 30.3; and (f) the additional evaluation factors are specified in Section III, Evaluation and Qualification Criteria. 34.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation. 34.4 If this bidding document allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated cost of the lot (contract) combinations, including any discounts offered in the Letter of Bid, is specified in Section III, Evaluation and Qualification Criteria. 34.5 The Purchaser's evaluation of a Bid will exclude and not take into account: (a) in the case of Goods manufactured in Pakistan, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder; (b) in the case of Goods manufactured outside Pakistan, already imported or to be imported, customs duties and other import taxes levied on the imported Good, sales and other similar taxes, which will be payable on the Goods if the contract is awarded to the Bidder; (c) any allowance for price adjustment during the period of execution of the contract, if provided in the Bid. 34.6 The Purchaser's evaluation of a Bid may require the consideration of other factors, in addition to the Bid Price quoted in accordance with ITB 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Bids, unless otherwise specified in the BDS from amongst those set out in Section III, Evaluation and Qualification Criteria. The criteria and methodologies to be used shall be as specified in ITB 34.2(f).
35. Comparison of Bids	35.1 The Purchaser shall compare the evaluated costs of all substantially responsive Bids established in accordance with ITB 34.2 to determine the Bid that has the lowest evaluated cost. The comparison shall be on the basis of CIP (place of final destination) prices for imported goods and EXW

	prices, plus cost of inland transportation and insurance to place of destination, for goods manufactured within Pakistan, together with prices for any required installation, training, commissioning and other services. The evaluation of prices shall not take into account custom duties and other taxes levied on imported goods quoted CIP and sales and similar taxes levied in connection with the sale or delivery of goods.
36. Abnormally Low Bids	36.1 An Abnormally Low Bid is one where the Bid price, in combination with other constituent elements of the Bid, appears unreasonably low to the extent that the Bid price raises material concerns with the Purchaser as to the capability of the Bidder to perform the Contract for the offered Bid price. 36.2 In the event of identification of a potentially Abnormally Low Bid, the Purchaser shall seek written clarification from the Bidder, including a detailed price analyses of its Bid price in relation to the subject matter of the contract, scope, delivery schedule, allocation of risks and responsibilities and any other requirements of the bidding document. 36.3 After evaluation of the price analyses, in the event that the Purchaser determines that the Bidder has failed to demonstrate its capability to perform the contract for the offered Bid price, the Purchaser shall reject the Bid.
37. Qualification of the Bidder	37.1 The Purchaser shall determine, to its satisfaction, whether the eligible Bidder that is selected as having submitted the lowest evaluated cost and substantially responsive Bid, meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria. 37.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17. The determination shall not take into consideration the qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors (other than specialized subcontractors if permitted in the bidding document), or any other firm(s) different from the Bidder. 37.3 Prior to Contract award, the Purchaser will verify that the successful Bidder (including each member of a JV) is not disqualified by the Bank due to noncompliance with contractual SEA/SH prevention and response obligations. The Purchaser will conduct the same verification for each subcontractor proposed by the successful Bidder. If any

	proposed subcontractor does not meet the requirement, the Purchaser will require the Bidder to propose a replacement subcontractor. 37.4 An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the Bid, in which event the Purchaser shall proceed to the Bidder who offers a substantially responsive Bid with the next lowest evaluated cost to make a similar determination of that Bidder's qualifications to perform satisfactorily.
38. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids	38.1 The Purchaser reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to Contract Award, without thereby incurring any liability to Bidders. In case of annulment, all Bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.
39. Standstill Period	39.1 The Contract shall not be awarded earlier than the expiry of the Standstill Period. The Standstill Period shall be ten (10) Business Days unless extended in accordance with ITB 44. The Standstill Period commences the day after the date the Purchaser has transmitted to each Bidder the Notification of Intention to Award the Contract. Where only one Bid is submitted, or if this contract is in response to an emergency situation recognized by the Bank, the Standstill Period shall not apply.
40. Notification of Intention to Award	40.1 The Purchaser shall send to each Bidder the Notification of Intention to Award the Contract to the successful Bidder. The Notification of Intention to Award shall contain, at a minimum, the following information: (a) the name and address of the Bidder submitting the successful Bid; (b) the Contract price of the successful Bid; (c) the names of all Bidders who submitted Bids, and their Bid prices as readout, and as evaluated; (d) a statement of the reason(s) the Bid (of the unsuccessful Bidder to whom the notification is addressed) was unsuccessful, unless the price information in c) above already reveals the reason; (e) the expiry date of the Standstill Period;

	(f) instructions on how to request a debriefing and/or submit a complaint during the standstill period.
F. Award of Contract	
41. Award Criteria	41.1 Subject to ITB 38, the Purchaser shall award the Contract to the Bidder offering the Most Advantageous Bid. The Most Advantageous Bid is the Bid of the Bidder that meets the qualification criteria and whose Bid has been determined to be: (a) substantially responsive to the bidding document; and (b) having the lowest evaluated cost.
42. Purchaser's Right to Vary Quantities at Time of Award	42.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VII, Schedule of Requirements, provided this does not exceed the percentages specified in the BDS, and without any change in the unit prices or other terms and conditions of the Bid and the bidding document.
43. Notification of Award	43.1 Prior to the date of expiry of the Bid validity and upon expiry of the Standstill Period, specified in ITB 39.1 or any extension thereof, and upon satisfactorily addressing any complaint that has been filed within the Standstill Period, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification of award (hereinafter and in the Contract Forms called the "Letter of Acceptance") shall specify the sum that the Purchaser will pay the Supplier in consideration of the execution of the Contract (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price"). 43.2 Within ten (10) Business Days after the date of transmission of the Letter of Acceptance, the Purchaser shall publish the Contract Award Notice which shall contain, at a minimum, the following information: (a) name and address of the Purchaser; (b) name and reference number of the contract being awarded, and the selection method used; (c) names of all Bidders that submitted Bids, and their Bid prices as read out at Bid opening, and as evaluated; (d) names of all Bidders whose Bids were rejected either as nonresponsive or as not meeting qualification

	criteria, or were not evaluated, with the reasons therefor; (e) the name of the successful Bidder, the final total contract price, the contract duration and a summary of its scope; and (f) successful Bidder's Beneficial Ownership Disclosure Form. 43.3 The Contract Award Notice shall be published on the Purchaser's website with free access if available, or in at least one newspaper of national circulation in Pakistan or in the official gazette. 43.4 Until a formal Contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.
44. Debriefing by the Purchaser	44.1 On receipt of the Purchaser's Notification of Intention to Award referred to in ITB 40.1, an unsuccessful Bidder has three (3) Business Days to make a written request to the Purchaser for a debriefing. The Purchaser shall provide a debriefing to all unsuccessful Bidders whose request is received within this deadline. 44.2 Where a request for debriefing is received within the deadline, the Purchaser shall provide a debriefing within five (5) Business Days, unless the Purchaser decides, for justifiable reasons, to provide the debriefing outside this timeframe. In that case, the standstill period shall automatically be extended until five (5) Business Days after such debriefing is provided. If more than one debriefing is so delayed, the standstill period shall not end earlier than five (5) Business Days after the last debriefing takes place. The Purchaser shall promptly inform, by the quickest means available, all Bidders of the extended standstill period 44.3 Where a request for debriefing is received by the Purchaser later than the three (3)-Business Day deadline, the Purchaser should provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of Public Notice of Award of contract. Requests for debriefing received outside the three (3)-day deadline shall not lead to extension of the standstill period. 44.4 Debriefings of unsuccessful Bidders may be done in writing or verbally. The Bidders shall bear their own costs of attending such a debriefing meeting.
45. Signing of Contract	45.1 The Purchaser shall send to the successful Bidder the Letter of Acceptance including the Contract Agreement, and a

	request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form shall be submitted within eight (8) Business Days of receiving this request. 45.2 The successful Bidder shall sign, date and return to the Purchaser, the Contract Agreement within twenty-eight (28) days of its receipt. 45.3 Notwithstanding ITB 45.2 above, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, to Pakistan, or to the use of the products/goods, systems or services to be supplied, where such export restrictions arise from trade regulations from a country supplying those products/goods, systems or services, the Bidder shall not be bound by its Bid, always provided however, that the Bidder can demonstrate to the satisfaction of the Purchaser and of the Bank that signing of the Contract Agreement has not been prevented by any lack of diligence on the part of the Bidder in completing any formalities, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract.
46. Performance Security	46.1 Within twenty-eight (28) days of the receipt of Letter of Acceptance from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCC 18, using for that purpose the Performance Security Form included in Section X, Contract Forms, or another Form acceptable to the Purchaser. The Performance Security shall be issued by a reputable bank selected by the successful Bidder. If the Performance Security is issued by a bank located outside Pakistan, it shall be counter-guaranteed by a correspondent bank located in Pakistan, for being encashable in Pakistan. In case of a Joint Venture, the Performance Security must be in the name of all members of the Joint Venture that signs the Contract. If the Performance Security furnished by the successful Bidder is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Bidder to be acceptable to the Purchaser. A foreign institution providing a bond shall have a correspondent financial institution located in the Purchaser's Country, unless the Purchaser has agreed in writing that a correspondent financial institution is not required.

	46.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the Bidder offering the next Most Advantageous Bid.
47. Procurement Related Complaint	47.1 The procedures for making a Procurement-related Complaint are as specified in the BDS .
48. Integrity Pact	48.1 The Bidder shall sign and affix seal on the Integrity Pact included in Section IV, Bidding Forms, for all procurement contracts worth PKR ten million or more. Failure to provide the Integrity Pact, signed by the person authorized in accordance with ITB 20.3, in the Bid may cause rejection of Bid; unless otherwise rectified under ITB 30.2

Section II - Bid Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Reference	A. General																										
ITB 1.1	The reference number of the Request for Bids (RFB) is: 3(8)/2026-Addl-Dir(P&F) / PK-FBR-565387-GO-RFB The Purchaser is: Federal Board of Revenue (FBR) The name of the RFB is: Procurement and Installation of Generators for Digital Enforcement Stations (DES) at Indus Sites, Phase-I (10 DES Sites) The number and identification of lots (contracts) comprising this RFB is: 3 Lots. Each Lot includes the below mentioned sites: <table><tr><th>S No</th><th>Lot</th><th>Sites</th></tr><tr><td>1</td><td rowspan="4">01</td><td>DIK-hakla motorway M-14(CPEC)</td></tr><tr><td>2</td><td>Kalabagh Bridge</td></tr><tr><td>3</td><td>Jinnah Bridge</td></tr><tr><td>4</td><td>Chashma Barrage</td></tr><tr><td>5</td><td rowspan="2">02</td><td>Guddu Barrage</td></tr><tr><td>6</td><td>Kotri bridge</td></tr><tr><td>7</td><td rowspan="4">03</td><td>Sehwan (Aral Bridge)</td></tr><tr><td>8</td><td>Sehwan Bhan Saeed Abad</td></tr><tr><td>9</td><td>Khurkera</td></tr><tr><td>10</td><td>HUB(Mygarhi or chleghezi cut)</td></tr></table> Each Lot shall constitute a separate contract. Bidders may submit Bids for one Lot, any combination of Lots, or all Lots. The Purchaser reserves the right to award one or more Lots to a Bidder, subject to the Bidder meeting the applicable qualification requirements for the respective Lot(s) and based on best economic combination to the Purchaser. The locations of the above sites are enclosed at Annex – I.	S No	Lot	Sites	1	01	DIK-hakla motorway M-14(CPEC)	2	Kalabagh Bridge	3	Jinnah Bridge	4	Chashma Barrage	5	02	Guddu Barrage	6	Kotri bridge	7	03	Sehwan (Aral Bridge)	8	Sehwan Bhan Saeed Abad	9	Khurkera	10	HUB(Mygarhi or chleghezi cut)
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9		Khurkera																									
10		HUB(Mygarhi or chleghezi cut)																									
ITB 1.2(a)	Electronic –Procurement System: Not Applicable																										
ITB 2.1	The Borrower is: Federal Board of Revenue. Loan or Financing Agreement amount: US\$ 470 Million The name of the Project is: Pakistan Raises Revenue Project (PRRP)																										

ITB 4.1	Maximum number of members in the Joint Venture (JV) shall be: three (03)				
ITB 4.5	A list of debarred firms and individuals is available on the Bank’s external website: http://www.worldbank.org/debarr .				
	B. Contents of Bidding Document				
ITB 7.1	For <u>Clarification of Bid purposes</u> only, the Purchaser’s address is: Attention: Procurement Specialist Address: <i>FBR House, Constitution Avenue</i> Floor/Room number: <i>2nd Floor, Room 277B</i> City: <i>Islamabad</i> ZIP Code: <i>44000</i> Country: <i>Pakistan</i> Electronic mail address: procsp.prrp@fbr.gov.pk Requests for clarification should be received by the Purchaser no later than: 07 days prior to deadline for the bid submission date. Web page: https://www.fbr.gov.pk/ A Pre-Bid meeting “shall” take place at the following date, time and place which a bidder may attend physically or virtually: <table border="1"><tr><td>Date:</td><td>31st August 2026</td><td>Time:</td><td>11:30 hours (PST)</td></tr></table> VENUE ROOM 277B, FBR House, Constitution Avenue, Islamabad, Pakistan Link for Joining the Pre-Bid Meeting Virtually is: https://zoom.us/j/94685938654?pwd=NtS1THvRDR9p0KCa6xAj9Q4gS00D5r.1 Meeting ID: 946 8593 8654 Passcode: 382027	Date:	31 st August 2026	Time:	11:30 hours (PST)
Date:	31 st August 2026	Time:	11:30 hours (PST)		

	C. Preparation of Bids
ITB 10.1	The language of the Bid is: English All correspondence exchange shall be in English language. Language for translation of supporting documents and printed literature is English.
ITB 11.1 (j)	The Bidder shall submit the following additional documents in its Bid: i. Integrity Pact properly signed, as required under ITB 48 (form is provided in Section IV); ii. In case of Joint Venture, JV agreement as per ITB 11.2 .
ITB 12.1	The units and rates entered in the Price Schedules must be typewritten or, if handwritten, provided in printed (block) form. Price Schedules that do not meet these requirements may be considered non-responsive.
ITB 13.1	Alternative Bids shall not be considered.
ITB 14.5	The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.
ITB 14.6	Prices quoted shall correspond to 100% of the quantities, items, technical requirements and Related Services specified for each Lot. A Bidder shall quote for all Sites included within the respective Lot. Partial quotations within a Lot shall render the Bid non-responsive.
ITB 14.7	The Incoterms edition is: 2020 The applicable Incoterm is DDP—Delivered Duty Paid, Incoterms 2020, at the respective final DES site identified in Section VII.
ITB 14.8	Irrespective of whether the Goods are manufactured in Pakistan, already imported, or to be imported, the Bidder shall quote a complete final destination/ DDP price in Pakistani Rupees for delivery, installation, testing and commissioning at the respective DES site. The price shall include all applicable customs duties, import charges, sales taxes, levies, inland transportation, transit insurance, loading, unloading, storage, handling, installation, civil and electrical incidental works, testing, commissioning, training, manuals, tools, labour, warranty obligations,

	overheads, profit and every other cost necessary for complete performance of the Contract. No additional payment shall be admissible on account of importation, exchange-rate movement, inland transportation, customs duties, taxes or any other cost that should reasonably have been included in the DDP Bid Price.																										
ITB 14.8 (b)(i)	Place of destination on final destination/DDP base: FBR Customs Offices / Sites mentioned below: <table><tr><th>S No</th><th>Lot</th><th>Name and Location of DES Sites</th></tr><tr><td>1</td><td rowspan="4">01</td><td>DIK-hakla motorway M-14(CPEC)</td></tr><tr><td>2</td><td>Kalabagh Bridge</td></tr><tr><td>3</td><td>Jinnah Bridge</td></tr><tr><td>4</td><td>Chashma Barrage</td></tr><tr><td>5</td><td rowspan="2">02</td><td>Guddu Barrage</td></tr><tr><td>6</td><td>Kotri bridge</td></tr><tr><td>7</td><td rowspan="4">03</td><td>Sehwan (Aral Bridge)</td></tr><tr><td>8</td><td>Sehwan Bhan Saeed Abad</td></tr><tr><td>9</td><td>Khurkera</td></tr><tr><td>10</td><td>HUB(Mygarhi or chleghezi cut)</td></tr></table>	S No	Lot	Name and Location of DES Sites	1	01	DIK-hakla motorway M-14(CPEC)	2	Kalabagh Bridge	3	Jinnah Bridge	4	Chashma Barrage	5	02	Guddu Barrage	6	Kotri bridge	7	03	Sehwan (Aral Bridge)	8	Sehwan Bhan Saeed Abad	9	Khurkera	10	HUB(Mygarhi or chleghezi cut)
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ITB 14.8 (a)(iii), (b)(ii) and (c)(v)	Final Destination (Project Site): FBR Customs Offices / Sites mentioned below: <table><tr><th>S No</th><th>Lot</th><th>Name and Location of DES Sites</th></tr><tr><td>1</td><td rowspan="4">01</td><td>DIK-hakla motorway M-14(CPEC)</td></tr><tr><td>2</td><td>Kalabagh Bridge</td></tr><tr><td>3</td><td>Jinnah Bridge</td></tr><tr><td>4</td><td>Chashma Barrage</td></tr><tr><td>5</td><td rowspan="2">02</td><td>Guddu Barrage</td></tr><tr><td>6</td><td>Kotri bridge</td></tr><tr><td>7</td><td rowspan="4">03</td><td>Sehwan (Aral Bridge)</td></tr><tr><td>8</td><td>Sehwan Bhan Saeed Abad</td></tr><tr><td>9</td><td>Khurkera</td></tr><tr><td>10</td><td>HUB(Mygarhi or chleghezi cut)</td></tr></table> The locations of the above sites are enclosed at Annex – I.	S No	Lot	Name and Location of DES Sites	1	01	DIK-hakla motorway M-14(CPEC)	2	Kalabagh Bridge	3	Jinnah Bridge	4	Chashma Barrage	5	02	Guddu Barrage	6	Kotri bridge	7	03	Sehwan (Aral Bridge)	8	Sehwan Bhan Saeed Abad	9	Khurkera	10	HUB(Mygarhi or chleghezi cut)
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ITB 15.1	The Bidder is required to quote Prices for all the Goods and Related Services, to be supplied and performed either from within Pakistan or from outside Pakistan, in PKR only.																										
ITB 15.2	Not Applicable. The Bid Price and all payments under the Contract shall be expressed and made exclusively in Pakistani Rupees.																										

ITB 16.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): Five Years following acceptance of the Goods by the Purchaser.						
ITB 17.2 (a)	The Bidder shall submit a Manufacturer's Authorization in the prescribed form (Section IV – Bidding Forms) issued by the Original Equipment Manufacturer (OEM), or its duly authorized regional or national representative, specifically authorizing the Bidder to supply, install, commission and provide warranty support for the offered DG Set under this procurement. Where the offered DG Set comprises integrated components manufactured by different OEMs (such as engines, alternators, controllers, automatic transfer switches or synchronization equipment), separate Manufacturer's Authorizations for each component shall not be mandatory, provided that: (i) the DG Set manufacturer or authorized assembler accepts full responsibility for the complete integrated system; (ii) the Bidder provides documentary evidence demonstrating that all major components are genuine, new and covered by valid OEM warranties; and (iii) the Bidder demonstrates its arrangement for the availability of established maintenance and repair service facilities, spare parts and warranty support provision in Pakistan throughout the warranty period. Acceptable documentary evidence may include current dealership/distributorship certificates, OEM warranty confirmations, OEM supply-chain documentation, product certification, published warranty arrangements or other equivalent evidence acceptable to the Purchaser.						
ITB 17.2 (b)	After sales service is: Required						
ITB 18.1	The Bid shall be valid until: 120 Days from the bid(s) submission date.						
ITB 18.3 (a)	The Bid price shall be adjusted by the following factor(s): Not Applicable						
ITB 19.1	A Bid Security shall be required. The amount and currency of Bid Security shall be as per the table below in the favour of “Federal Board of Revenue” and shall be in the form of Bank “Pay Order / Demand Draft / Call Deposit Receipt / Bankers Cheque or Unconditional Irrevocable Bank Guarantee”. <table><tr><td>Lot No</td><td>Description</td><td>Lot-Wise Bid Security (PKR)</td></tr><tr><td></td><td></td><td></td></tr></table>	Lot No	Description	Lot-Wise Bid Security (PKR)			
Lot No	Description	Lot-Wise Bid Security (PKR)					

		<table><tr><td>1</td><td>DG SETS and Allied Components</td><td>5,000,000/-</td></tr><tr><td>2</td><td>DG SETS and Allied Components</td><td>2,500,000/-</td></tr><tr><td>3</td><td>DG SETS and Allied Components</td><td>5,000,000/-</td></tr></table>	1	DG SETS and Allied Components	5,000,000/-	2	DG SETS and Allied Components	2,500,000/-	3	DG SETS and Allied Components	5,000,000/-
	1	DG SETS and Allied Components	5,000,000/-								
	2	DG SETS and Allied Components	2,500,000/-								
	3	DG SETS and Allied Components	5,000,000/-								
Bidders submitting Bids for more than one Lot shall provide cumulative Bid Security corresponding to the Lots for which they submit Bids. Accordingly, the required Bid Security shall be PKR 7,500,000 for Lots 1 and 2, PKR 10,000,000 for Lots 1 and 3, PKR 7,500,000 for Lots 2 and 3, and PKR 12,500,000 for Lots 1, 2 and 3. Separate or consolidated Bid Securities may be submitted, provided that the relevant Lot or Lots are clearly identified and the total amount fully covers all Lots for which the Bidder has submitted its Bid.											
ITB 19.3 (d)	Other types of acceptable securities: As provided in ITB 19.1(Datasheet).										
ITB 19.3	Subject to the succeeding sentences, any Bid not accompanied by substantially compliant Bid Security shall be rejected by the Purchaser as nonresponsive. Failure to provide a compliant Bid Security within the said period shall cause the rejection of the Bid.										
ITB 19.9	Not Applicable										
ITB 20.1	In addition to the original of the Bid, the number of copies to be delivered to the Procuring Agency is One Soft Copy in USB/ Pen drive which should be sealed in an envelope along with the bid.										
ITB 20.3	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: A board resolution or its equivalent, or notarized Power of Attorney specifying the representative’s authority to sign the Bid on behalf of, and to legally bind, the Bidder shall be provided. If the Bidder is an intended or an existing Joint Venture, the power of attorney should be signed by all partners and specify the authority of the named representative of the Joint Venture to sign on behalf of and legally bind the intended or existing Joint Venture partners. If the Joint Venture has not been formed, also include evidence from all proposed Joint Venture partners of their intent to enter into a Joint Venture in the event of a contract award.										
	D. Submission and Opening of Bids										
ITB 22.1	For <u>Bid submission purposes</u> only, the Purchaser’s address is: Attention: Procurement Specialist										

	Address: FBR House, Constitution Avenue Floor/Room number: 2nd Floor, Room 277B City: Islamabad ZIP Code: 44000 Country: Pakistan Electronic mail address: procsp.prrp@fbr.gov.pk The deadline for Bid submission is: Date: 6th October 2026 Time: 11:30 AM Bidders shall not have the option of submitting their Bids electronically.
ITB 25.1	The Bid opening shall take place at: Room 277B, FBR House, Constitution Avenue Islamabad, Pakistan Date: 6th October 2026 Time: Immediately after the deadline for submission of Bids
ITB 25.6	The Letter of Bid and Price Schedules shall be initialed by at least 03 authorized representatives of the Purchaser conducting Bid opening. Each Bid shall be initialed by at least 03 authorized representatives and shall be numbered, any modification to the unit or total price shall be initialed by the respective Representative(s) of the Purchaser.
E. Evaluation and Comparison of Bids	
ITB 32.1	Not Applicable. Bids shall be quoted and evaluated in Pakistani Rupees only. No currency conversion or exchange-rate source shall apply.
ITB 33.1	A margin of domestic preference shall not apply.
ITB 34.2(a)	Evaluation will be done for Individual Lots/ Packages. Each Lot shall be evaluated independently Bids will be evaluated on the each lot basis. Evaluation shall be conducted separately for each Lot. A Bid for a Lot must include 100% of the Goods, quantities, sites and Related Services specified for that Lot. Where an item is listed in the Price Schedule but no price is entered, its price shall be deemed included in other prices quoted for that Lot. An item listed in the Price Schedule but omitted by the bidder shall be assumed to be not

	included in the Bid, and provided that the Bid is substantially responsive, the average price of the item quoted by substantially responsive Bidders will be added to the Bid price and the equivalent total cost of the Bid so determined will be used for price comparison.
ITB 34.6	The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria: (a) Deviation in Delivery schedule: <i>No</i> (b) Deviation in payment schedule: <i>No</i> (c) the cost of major replacement component, mandatory spare parts, and service: <i>No</i> (d) the availability in Pakistan of spare parts and after-sales services for the equipment offered in the Bid: <i>No</i> (e) Life cycle costs: <i>No</i> (f) the performance and productivity of the equipment offered; <i>No</i>
ITB 35.1	For purposes of evaluation and comparison, the Purchaser shall compare the total evaluated final destination/DDP price for the complete Lot, inclusive of all Goods, Related Services, taxes, duties, transportation, installation, testing and commissioning at all sites included in the Lot.
ITB 37.1	The qualification criteria as provided in Sub-Section 3 in Section III, Evaluation and Qualification Criteria) will be used.
ITB 39.1	The Standstill period, unless otherwise extended, shall be: ten (10) business days.
	F. Award of Contract
ITB 42	The maximum percentage by which quantities may be increased is: 25% The maximum percentage by which quantities may be decreased is: 25%
ITB 45.1	The successful Bidder shall submit: “Beneficial Ownership Disclosure Form”.
ITB 47.1	The procedures for making a Procurement-related Complaint are detailed in the “Procurement Regulations for IPF Borrowers (Annex III).” If a Bidder wishes to make a Procurement-related Complaint, the Bidder should submit its complaint following these procedures, in writing (by the quickest means available, that is either by email or fax), to: For the attention: Member (Reforms & Modernization) Purchaser: <i>Federal Board of Revenue</i> Floor/Room number: 3rd Floor, Room No. 350

	Email address: <i>memberr&m@fbr.gov.pk</i> A copy of the complaint can be sent for the Bank’s information and monitoring to: pprourementcomplaints@worldbank.org In summary, a Procurement-related Complaint may challenge any of the following: 1. the terms of the Bidding Documents; and 2. the Purchaser’s decision to award the contract.
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Section III - Evaluation and Qualification Criteria

Contents

- 1. Eligibility of Bidder (ITB 4)**
 - 1.1 Nationality
 - 1.2 Conflict of Interest
 - 1.3 Bank Eligibility
 - 1.4 State-Owned Enterprise or Institution of Pakistan
 - 1.5 Pakistan Law
 - 1.6 Registration of National Bidders
- 2. Evaluation of Bid (ITB 34)**
 - 2.1 Alternative Bids (ITB 13.1)
 - 2.2 Technical Evaluation (ITB 29)
 - 2.3 Evaluation Criteria (ITB 34.6)
 - 2.4 Multiple Contracts (ITB 34.4)
- 3. Qualification of Bidder (ITB 37)**
 - 3.1 Qualification Criteria (ITB 37.1)
- 4. Margin of Preference (ITB 33)**

Most Advantageous Bid:

The Purchaser shall determine the Most Advantageous Bid by applying the criteria and methodologies specified in **Sub-Section 2 (Evaluation of Bid)** and **Sub-Section 3 (Qualification of Bidder)**, after first verifying the Bidder's eligibility in accordance with **Sub-Section 1 (Eligibility of Bidder)** .

The Most Advantageous Bid shall be the Bid that:

- (a) is substantially responsive to the requirements of the Bidding Document;
- (b) has the lowest evaluated cost

1. Eligibility of Bidder (ITB 4)

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Corresponding Submission
		All Partners Combined	Each Partner	One Partner	

1.1 Nationality

Nationality in accordance with ITB 4.4.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Bidder's/ JV members Information Form(s)
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1.2 Conflict of Interest

No conflicts of interest in accordance with ITB 4.2.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Letter of Bid
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1.3 Bank Eligibility

Not having been declared ineligible, as described in ITB 4.5.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Letter of Bid
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1.4 State-Owned Enterprise or institution of Pakistan

Bidder required to meet conditions of ITB 4.6.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Bidder's/ JV members Information Form(s)
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1.5 Pakistan law

Not having been excluded as a result of prohibition in Pakistan laws or official regulations against commercial relations with the Bidder's country, or by an act of compliance with UN Security Council resolution, both in accordance with ITB 4.8.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Letter of Bid
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1.6 Registration of National Bidders

Registration with: Regulatory Body / Licensing Authority, and FBR.	Must meet requirement	Must meet requirement	Must meet requirement	Not applicable	Bidder's/ JV members Information Form(s)
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2. Evaluation of Bid (ITB 34)

2.1. Alternative Bids (ITB 13.1): Not Applicable.

2.2 Technical Evaluation (ITB 29) :

Assessment of adequacy of Technical requirements as provided in section VII Schedule of Requirements. Bidders shall complete the Compliance Statement Form in section IV: Bidding Forms.

2.3 Evaluation Criteria (ITB 34.6)

The Purchaser's evaluation of a Bid may take into account, in addition to the Bid Price quoted in accordance with ITB 14.8, one or more of the following factors as specified in ITB 34.2(f) and in BDS referring to ITB 34.6, using the following criteria and methodologies.

- (a) Delivery schedule: Not Applicable
- (b) Deviation in payment schedule: Not Applicable
- (c) Cost of major replacement components, mandatory spare parts, and service: Not Applicable
- (d) Availability in Pakistan of spare parts and after sales services for equipment offered in the Bid: Not Applicable
- (e) Life Cycle Costs: Not Applicable
- (f) Functional Performance and productivity of the equipment: Not Applicable
- (g) Specific additional criteria: Not Applicable

2.4 Multiple Contracts (ITB 34.4)

If bidders submit bids for more multiple lots, the contract will be awarded to the Bidder or Bidders offering a substantially responsive Bid(s) and the lowest evaluated cost(based on best economic combination) to the Purchaser for combined lots, after considering all possible combination of lots, subject to the selected Bidder(s) meeting the required aggregate qualification criteria (Sub-Section 3.1 of this Section III) for combination of lots.

In determining Bidder or Bidders that offer the total lowest evaluated cost to the Purchaser for combined lots, the Purchaser shall apply the following steps in sequence:

- (a) evaluate individual lots to determine the substantially responsive Bids and corresponding evaluated costs;
- (b) for each lot, rank the substantially responsive Bids starting from the lowest evaluated cost for the lot;
- (c) apply to the evaluated costs listed in b) above, any applicable discounts/price reductions offered by a Bidder (s) for the award of multiple contracts based on the discounts and the methodology for their application offered by the respective Bidder; and
- (d) **determine contract award on the basis of the combination of lots that offer the total lowest evaluated cost(based on best economic combination) to the Purchaser and meets the aggregate qualification requirements.**

3. Qualification (ITB 37)

3.1 Qualification Criteria (ITB 37.1)

After determining the substantially responsive Bid which offers the lowest-evaluated cost in accordance with ITB 34, and, if applicable, the assessment of any Abnormally Low Bid (in accordance with ITB 36) the Purchaser shall carry out the post-qualification of the Bidder in accordance with ITB 37, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

- (a) The Bidder shall have been continuously engaged in the supply and/or installation of power-generation or comparable electromechanical equipment for at least five years prior to the Bid submission deadline.
- (b) **Financial Capability:** The Bidder shall submit audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the latest **five (05)** financial years prior to bid submission deadline, demonstrating the current soundness of the Bidder's financial position. These financial statements must include balance sheets, profit and loss accounts, assets and liabilities, investments and availability of financial resources to manage the contract. Lot wise and cumulative Average Annual Turnover of the bidder / JV should minimum match or exceed the following in the last five years. For a joint venture, this requirement may be met by all members combined subject to the condition that each member meets at least 25% criteria and lead member to meet at least 50% of financial capability criteria;

The applicable minimum average annual turnover requirements are:

Lot or Combination of Lots	Minimum Average Annual Turnover in PKR
Lot 1	219,200,000
Lot 2	107,500,000
Lot 3	226,200,000
Lots 1 and 2	326,600,000
Lots 1 and 3	445,300,000
Lots 2 and 3	333,600,000
Lots 1, 2 and 3	552,700,000

Turnover attributable to an entity. Turnover of a parent company, subsidiary, affiliate or subcontractor, shall not be taken into account.

- (c) **Specific Experience:** The Bidder shall demonstrate successful completion of at least one (01) contract of a similar nature, scope, and complexity within the last five (05) years prior to the bid submission deadline, where the contract must minimum match or exceed the following Lot wise minimum threshold and involve the supply of DG Sets with allied components, synchronization / control systems, electrical infrastructure, installation and commissioning. For a joint venture, this requirement may be met by all members combined;

Lot or Combination of Lots	Minimum Value of One Similar Contracts
Lot 1	146,077,700
Lot 2	71,600,200
Lot 3	150,756,400
Lots 1 and 2	217,677,900
Lots 1 and 3	296,834,100
Lots 2 and 3	222,356,600
Lots 1, 2 and 3	368,434,200

Bidders shall submit completion/delivery certificates to demonstrate their specific experience.

- (d) **Manufacturer's authorization:** A Bidder who does not manufacture an item/s where a manufacturer authorization is required in accordance with BDS ITB 17.2 (a), the Bidder shall provide evidence of being duly authorized by a manufacturer (Manufacturer's Authorization Form, Section IV, Bidding Forms), meeting the criteria in (d) (i) and (ii) above, to supply the Goods;
- (e) **Documentary Evidence:** The Bidder shall furnish documentary evidence to demonstrate that the goods that it offers to supply meet the following usage requirement: Documentary evidence, including manufacturer's certification or published technical literature demonstrating compliance with the applicable emission standard, shall be submitted with the Bid.
- (f) The Bidder demonstrates its arrangement for the availability of established maintenance and repair service facilities, spare parts and warranty support provision in Pakistan throughout the warranty period.

At the time of Contract Award, the Bidder (including each subcontractor proposed by the Bidder) shall not be subject to disqualification by the Bank for non-compliance with SEA/SH obligations.

Each Lot shall be evaluated independently. A Bidder bidding for a Lot shall quote for the complete scope, all sites, items, quantities and Related Services (where applicable) included in that Lot. Partial Bids within a Lot shall not be accepted.

4. Margin of Preference (ITB 33): Not Applicable

Section IV - Bidding Forms

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Letter of Bid

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

The Bidder must prepare this Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: *All italicized text is to help Bidders in preparing this form.*

Date of this Bid submission: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of RFB process]*

Request for Bid No.: *[insert identification]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

(a) We submit our Bid for the following Lot(s):

☐ Lot 1

☐ Lot 2

☐ Lot 3

We confirm that, for each Lot selected above, our Bid covers the complete scope, all sites, items, quantities and Related Services specified for that Lot.

(b) We have submitted Bid Security in the amount of PKR _____ covering the Lot(s) No.....: _____.

(c) **No reservations:** We have examined and have no reservations to the bidding document, including Addenda issued in accordance with Instructions to Bidders (ITB 8);

(d) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;

(e) **Bid/Proposal-Securing Declaration:** We have not been suspended nor declared ineligible by the Purchaser based on execution of a Bid-Securing Declaration or Proposal-Securing Declaration in the Purchaser's Country in accordance with ITB 4.7;

(f) **Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH):** *[select the appropriate option from (i) to (iii) below and delete the others. In case of JV members and/or subcontractors, indicate the status of disqualification by the Bank of each JV member and/or subcontractor].*

We, including any of our subcontractors:

- (i) [have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]
 - (ii) [are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]
 - (iii) [had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.]
- (g) **Conformity:** We offer to supply in conformity with the bidding document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: *[insert a brief description of the Goods and Related Services]*;
- (h) **Bid Price:** The total price of our Bid, excluding any discounts offered in item (f) below is:
- Option 1, in case of one lot: Total price is: *[insert the total price of the Bid in words and figures, indicating the various amounts and the respective currencies]*;
- Or
- Option 2, in case of multiple lots: (a) Total price of each lot *[insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]*; and (b) Total price of all lots (sum of all lots) *[insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies]*;
- (i) We confirm that we possess, or will make available, the aggregate financial resources, personnel, equipment and implementation capacity required to execute the Lot(s) for which our Bid may be accepted.
- (j) **Discounts:** The discounts offered and the methodology for their application are:
- (i) The discounts offered are: *[Specify in detail each discount offered.]*
 - (ii) The exact method of calculations to determine the net price after application of discounts is shown below: *[Specify in detail the method that shall be used to apply the discounts]*;
- (k) **Bid Validity:** Our Bid shall be valid until *[insert day, month and year in accordance with ITB 18.1]*, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (l) **Performance Security:** If our Bid is accepted, we commit to obtain a performance security in accordance with the bidding document;
- (m) **One Bid per Bidder:** We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other Bid(s) as a Joint Venture member, or as a

subcontractor, and meet the requirements of ITB 4.3, other than alternative Bids submitted in accordance with ITB 13;

- (n) **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Purchaser's Country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- (o) **State-owned enterprise or institution:** *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of ITB 4.6];*
- (p) **Commissions, gratuities, fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

- (q) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (r) **Purchaser Not Bound to Accept:** We understand that you are not bound to accept the lowest evaluated cost Bid, the Most Advantageous Bid or any other Bid that you may receive; and
- (s) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption.
- (t) **Registration of National Bidders:** We are registered with *[insert name of the Registration / Licensing authority]* to establish and run our business in this field, and we appear on Active Tax Payers' List of FBR.
- (u) **We agree to permit** the World Bank or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the World Bank.

Name of the Bidder: **[insert complete name of the Bidder]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder: *******[insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid: *[insert complete title of the person signing the Bid]*

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

CNIC / Passport Number of the person named above (For National Bidders): *[insert CNIC / Passport Number of the person whose name and capacity are shown above]*

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

**: Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

Technical Part

The Bid shall include all relevant information required to evaluate the Bid in accordance with the technical requirements, as given under Section VII, Schedule of Requirements.

To establish the conformity of the Goods and Related Services to the RFB document, the Bidder shall furnish the documentary evidence that the Goods conform to the Technical Specifications and standards, including any essential technical and performance characteristics specified in Section VII, Schedule of Requirements. Any required functional guarantees shall also be provided. The attached forms/format may support the Bidder to organize information required to present its Bid.

The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the Technical Specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII, Schedule of Requirements.

In the interest of timely bid evaluation and contract award, Bidders are encouraged not to overload the supporting materials with documents that do not directly address the Purchaser's requirements.

If the contract has been assessed to present potential or actual cyber security risks, the Bid must include proposed cyber security risks management plan.

If there are assessed supply chain risks, the Bid must include proposed supply chain risk management plan.

Compliance Statement Form

(Bidders shall fill the compliance statement as required in Section III. Evaluation and Qualification Criteria-EQC)

Title			
Sr No	Clause Description (1 st Heading)	Requirement	Compliance
1.			
2.			
3.			
4.			
5.			

Functional Guarantes

Not Applicable

Manufacturer's Authorization

[If applicable under BDS: ITB 17.2 (a); may not normally be the case for off-the-shelf Goods]

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its Bid, if so indicated in the BDS.]

Date: [insert date (as day, month and year) of Bid submission]

RFB No.: [insert number of RFB process]

Alternative No.: [insert identification No if this is a Bid for an alternative]

To: [insert complete name of Purchaser]

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a Bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

We confirm that we do not engage or employ forced labor or persons subject to trafficking or child labor, in accordance with Clause 14 of the General Conditions of Contract.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Dated on _____ day of _____, _____ [insert date of signing]

Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of RFB process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member: <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.4. ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1. ☐ In case of state-owned enterprise or institution, in accordance with ITB 4.6 documents establishing: • Legal and financial autonomy • Operation under commercial law • Establishing that the Bidder is not under the supervision of the Purchaser
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. The successful Bidder shall provide additional information on beneficial ownership, using the Beneficial Ownership Disclosure Form.

Bidder's JV Members Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the Bidder and for each member of a Joint Venture].

Date: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of Bidding process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page _____ of _____ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. Bidder's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Bidder's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Bidder's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
6. Bidder's JV Member's authorized representative information Name: <i>[insert name of JV's Member authorized representative]</i> Address: <i>[insert address of JV's Member authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i> Email Address: <i>[insert email address of JV's Member authorized representative]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4. ☐ In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Purchaser, in accordance with ITB 4.6.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. The successful Bidder shall provide additional information on beneficial ownership for each JV member using the Beneficial Ownership Disclosure Form.

Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment Performance Declaration

[The following table shall be filled in by the Bidder, each member of a Joint Venture and each subcontractor proposed by the Bidder]

Bidder's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture Member's or Subcontractor's Name: *[insert full name]*

RFB No. and title: *[insert RFB number and title]*

Page *[insert page number]* of *[insert total number]* pages

SEA and/or SH Declaration in accordance with Section III, Qualification Criteria, and Requirements
We: ☐ (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations ☐ (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations ☐ (c) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.
<i>[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]</i>

Form : Financial Capability

Each Bidder shall fill out this form; in accordance with Sub-Section 3 of Section III, Evaluation and Qualification Criteria.

In case of a Joint Venture, each Joint Venture Member shall fill out this form separately and provide the Joint Venture Member's name:

Joint Venture Member: _____

Financial Data for Previous ____ Years [PKR Equivalent*]		
Year 1:	Year 2:	Year ____:

Information from Balance Sheet

Total Assets (TA)			
Total Liabilities (TL)			
Net Worth = TA-TL			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital = CA - CL			

* Apply selling exchange rate(s) of State Bank of Pakistan, prevailing on the last day of the respective year (in which the amount for that year is to be converted).

Most Recent Working Capital		Demonstrating the current soundness of the Bidder's / JV Member's financial position
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Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

- ☐ Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last _____ years, as indicated above, complying with the following conditions:
- 1) Unless otherwise required by Sub-Section 3 of Section III, Evaluation and Qualification Criteria, all such documents reflect the standalone financial situation of the legal entity or entities comprising the Bidder and not the Bidders parent companies, subsidiaries, or affiliates.
 - 2) Historical financial statements must be audited by a certified accountant.
 - 3) Historical financial statements must be complete, including all notes to the financial statements.
 - 4) Historical financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Form EXP: Specific Experience

Each Bidder shall fill out one form per contract; in accordance with Sub-Section 3 of Section III, Evaluation and Qualification Criteria. Each contract shall be supported by Signed Contract Agreement and Completion Certificate or Performance Certificate.

Specific Experience		
Contract No of	Contract Identification	
Award Date		Completion Date
Role in Contract	☐ Manufacturer ☐ Supplier ☐ Subcontractor	
Total Contract Amount	PKR Equivalent*	
If partner in a joint venture or subcontractor, specify participation of total contract amount and items supplied	Percent of Total	Amount and Specific items supplied
Purchaser's name Address Telephone/Fax Number E-mail		

* Apply selling exchange rate(s) of State Bank of Pakistan, prevailing on the last day of the respective year (in which the amount for that year is to be converted).

Technical Experience

Fill out one (1) form per contract. Each contract shall be supported by Signed Contract Agreement.

Technical Experience	
Name of Product	
Manufacturer:	Address and Nationality:
Requirements in accordance with Manufacturing Experience and Technical Capacity as specified in Section 3 (Evaluation and Qualification Criteria)	
(i) Goods of similar nature and complexity have been in production for at least years prior to the bid submission deadline.	
(ii) Annual production capacity of goods of similar nature and complexity for each of the last ____ years [e.g. three years] prior to the bid submission deadline, is at least ____ times the quantities specified under the contract.	
(iii) Product has been in operation for a minimum of years.	

- Note -

This form shall only be included if Criterion “Manufacturing experience and Technical Capacity” of Section 3 (Evaluation and Qualification Criteria) is applicable. Add pages as necessary. The Purchaser reserves the right to verify authenticity of Bidder submissions.

Production Capacity

Not Applicable.

Form of Integrity Pact

[As specified in Sections I and II, under ITB 48 and BDS 11.1(k)]

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

Contract No. _____ Dated _____

Contract Value: _____

Contract Title: _____

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

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

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

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

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

Name of Purchaser: Name of Supplier:

Signature: Signature:

[Seal]

[Seal]

Price Schedule Forms

Instructions for Completion of Price Schedules and Site-wise BOQs

The Bidder shall complete and submit the **Lot-wise Price Schedule** together with the **Site-wise priced Bills of Quantities (BOQs)** for each Lot for which it submits a Bid.

For each quoted Lot:

1. The Bidder shall quote prices for **all items, quantities, Goods and Related Services** included in every Site-wise BOQ forming part of that Lot.
2. The **Lot-wise Total final destination/DDP Price** shall be the arithmetic sum of the Total final destination/DDP Prices of all Site-wise BOQs included in that Lot.
3. The Bidder shall clearly indicate the **offered make, model and manufacturer**, where applicable, against each relevant BOQ item.
4. All prices shall be quoted in Pakistani Rupees on a DDP/site-delivered basis and shall include transportation, loading, unloading, insurance, storage, installation, testing, commissioning, documentation, warranty obligations, labour, tools, equipment, incidental works, overheads, profit and all other costs necessary for complete performance.
5. The cost of Goods and Services shall be inclusive of 3 years O&M warranty and 3 years comprehensive warranty for complete system and other incidental/ related services and obligations of Supplier's part as detailed hereto in this document.

Price Schedule – Lot Wise:

Date: _____ Currencies in accordance with ITB 15 RFB No: _____ Alternative No: _____ Page N° _____ of _____					
1	2	3	4	5	6
<i>Lot No</i>	Description of Goods and Sites Included	Country of Origin	Delivery Period as defined by Incoterms	Quantity and physical unit	Total final destination/ DDP Bid Price (includes all kinds of taxes, related services, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination), in accordance with ITB 14.8 (b) - for the Whole Lot based on itemized cost as per BOQ
Lot 01	DG Sets & Allied Components with associated incidental and allied services for DI KHAN HAKLA MOTORWAY M-14(CPEC), KALA BAGH BRIDGE, JINNAH BRIDGE, CHASHMA BARRAGE		<i>(180 Days from the date of signing of contract)</i>	As per BOQs/ Technical Specifications	
Lot 02	DG Sets & Allied Components with associated incidental and allied services for GUDDU BARRAGE, KOTRI BRIDGE		<i>(180 Days from the date of signing of contract)</i>	As per BOQs/ Technical Specifications	
Lot 03	DG Sets & Allied Components with associated incidental and allied services for SEHWAN (ARAL BIDGE), SEHWAN BHAN SAEED ABAD, KHUKERA, HUB (MYGARHI OR CHLEGHEZI CUT)		<i>(180 Days from the date of signing of contract)</i>	As per BOQ/ Technical Specifications	
Note: The Total Lot Price shall equal the aggregate of the Total DDP Prices of all Site-wise BOQs comprising that Lot.				Total DDP Price	

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[Insert Date]*

SITE WISE BOQ PRICE SCHEDULE

Each line item consists of the sub-items listed below for the respective number of sites specified in the BDS. Bidders shall quote prices for each sub-item. The total price quoted for each Lot in the above Price Schedule/table shall be equal to the aggregate price of all sub-items corresponding to the sites included in that Lot.

Note: Bidders must mention the brand/ model of each sub-item they are offering. The items must meet the requirements mentioned in the Technical Specifications.

LOT # 01 (DI KHAN HAKLA MOTORWAY M-14(CPEC), KALA BAGH BRIDGE, JINNAH BRIDGE, CHASHMA BARRAGE):

LOT # 01 - Site 01: DI KHAN HAKLA MOTORWAY M-14(CPEC) (BOQ-01)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR)	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects					

	(Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 400mm ²	Rm	600			
ii	1 Core 300mm ²	Rm	1,500			
iii	1 Core 150mm ²	Rm	800			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 300mm ²	Rm	250			
ii	1 Core 240mm ²	Rm	150			
iii	1 Core 150mm ²	Rm	150			
iv	1 Core 70mm ²	Rm	500			

v	1 Core 16mm2	Rm	2,000			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame claded with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	02			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	<u>DG SET</u>			
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KV Ae/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01	

	Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	100 kVA Prime rating*	Job	1			
b)	200 kVA Prime rating*	Job	1			
c)	150 kVA Prime rating*	Job	1			
d)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 100 kVA Prime rating* DG set	Job	1			
b)	suitable for 200 kVA Prime rating* DG set	Job	1			
c)	suitable for 150 kVA Prime rating* DG set	Job	1			
d)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					

	Under Ground Bulk Fuel Tank, 8,000 liters capacity (For 01 No. 100kVA DG Set & 01 No. 200kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			
6	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			
7	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	1			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			

C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos.leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing arrangement on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total final destination/DDP Price in PKR						

LOT # 01 - Site 02: KALA BAGH BRIDGE (BOQ-02)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
ii	1 Core 300mm2	Rm	1,500			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified					

	documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 300mm2	Rm	250			
ii	1 Core 150mm2	Rm	150			
iii	1 Core 70mm2	Rm	250			
v	1 Core 16mm2	Rm	1,750			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame claded with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	02			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	DG SET					
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KV Ae/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01			

	Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	150 kVA Prime rating*	Job	1			
b)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 150 kVA Prime rating* DG set	Job	1			
b)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			

6	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	1			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			
C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos.leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing					

	arrangement on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total DDP Price in PKR						

LOT # 01 - Site 03: JINNAH BRIDGE (BOQ-03)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR)	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
ii	1 Core 300mm2	Rm	1,500			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified					

	documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 300mm2	Rm	250			
ii	1 Core 150mm2	Rm	150			
iii	1 Core 70mm2	Rm	250			
v	1 Core 16mm2	Rm	2,000			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame claded with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	01			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	<u>DG SET</u>			
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KVAe/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01	

	Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	150 kVA Prime rating*	Job	1			
b)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 150 kVA Prime rating* DG set	Job	1			
b)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			

6	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	1			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			
C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos. leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing arrangement					

	on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total DDP Price in PKR						

LOT # 01 - Site 04: CHASHMA BARRAGE (BOQ-04)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
ii	1 Core 300mm2	Rm	1,500			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified					

	documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 300mm2	Rm	250			
Ii	1 Core 150mm2	Rm	150			
iii	1 Core 70mm2	Rm	250			
v	1 Core 16mm2	Rm	1,750			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame claded with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	02			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	<u>DG SET</u>			
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KVAe/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01	

Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	150 kVA Prime rating*	Job	1			
b)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 150 kVA Prime rating* DG set	Job	1			
b)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			

6	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	1			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			
C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos. leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing arrangement					

	on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total DDP Price in PKR						

LOT # 02 (GUDDU BARRAGE & KOTRI BRIDGE):

LOT # 02 - Site 01: GUDDU BARRAGE (BOQ-05)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
ii	1 Core 300mm2	Rm	1,500			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all					

	respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 300mm2	Rm	250			
ii	1 Core 150mm2	Rm	150			
iii	1 Core 70mm2	Rm	250			
v	1 Core 16mm2	Rm	1,600			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame clad with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	01			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	<u>DG SET</u>					
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KVAe/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01			

Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	150 kVA Prime rating*	Job	1			
b)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 150 kVA Prime rating* DG set	Job	1			
b)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			

6	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	05			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			
C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos. leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing arrangement					

	on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total DDP Price in PKR						

LOT # 02 - Site 03: KOTRI BRIDGE (BOQ-06)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
ii	1 Core 300mm2	Rm	1,500			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified					

	documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 300mm2	Rm	250			
Ii	1 Core 150mm2	Rm	150			
iii	1 Core 70mm2	Rm	250			
v	1 Core 16mm2	Rm	1,350			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame claded with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	01			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	<u>DG SET</u>					
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KVAe/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01			

Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	150 kVA Prime rating*	Job	1			
b)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 150 kVA Prime rating* DG set	Job	1			
b)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			

6	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	05			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			
C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos. leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing arrangement					

	on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total DDP Price in PKR						

LOT # 03 (SEHWAN (ARAL BIDGE), SEHWAN BHAN SAEED ABAD, KHUKERA & HUB MYGARHI OR CHLEGHEZI CUT):

LOT # 03 - Site 01: SEHWAN (ARAL BIDGE) (BOQ-07)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
ii	1 Core 300mm2	Rm	1,500			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all					

	respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 300mm2	Rm	250			
Ii	1 Core 150mm2	Rm	150			
iii	1 Core 70mm2	Rm	250			
v	1 Core 16mm2	Rm	1,350			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame claded with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	01			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	<u>DG SET</u>					
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KVAe/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01			

Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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	Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	150 kVA Prime rating*	Job	1			
b)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 150 kVA Prime rating* DG set	Job	1			
b)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			

6	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	05			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			
C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos.leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing arrangement					

	on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total DDP Price in PKR						

LOT # 03 - Site 02: SEHWAN BHAN SAEED ABAD (BOQ-08)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
ii	1 Core 300mm2	Rm	1,500			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified					

	documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 300mm2	Rm	250			
ii	1 Core 150mm2	Rm	150			
iii	1 Core 70mm2	Rm	250			
v	1 Core 16mm2	Rm	1,350			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame claded with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	01			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	<u>DG SET</u>					
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KVAe/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01			

	Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	150 kVA Prime rating*	Job	1			
b)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 150 kVA Prime rating* DG set	Job	1			
b)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			

6	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	05			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			
C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos.leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing arrangement					

	on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total DDP Price in PKR						

LOT # 03 - Site 03: KHUKERA (BOQ-9)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
ii	1 Core 300mm2	Rm	2,000			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified					

	documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
i	1 Core 300mm2	Rm	300			
ii	1 Core 150mm2	Rm	150			
iii	1 Core 70mm2	Rm	300			
v	1 Core 16mm2	Rm	2,000			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame claded with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	01			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	<u>DG SET</u>			
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KVAe/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01	

Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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	Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	150 kVA Prime rating*	Job	1			
b)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 150 kVA Prime rating* DG set	Job	1			
b)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			

6	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	05			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			
C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos. leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing arrangement					

	on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total DDP Price in PKR						

LOT # 03 - Site 04: HUB (MYGARHI OR CHLEGHEZI CUT) (BOQ-10)

Item No.	Description	Unit	Quantity	Unit final destination/D DP Price (PKR)	Total final destination/D DP Price (PKR	Offered Make/Model, where applicable
				(includes all kinds of taxes, after sales services, incidental services and costs to deliver, install, commission, inspect, and test goods at the place of destination)		
1	<u>Low Voltage Power Cables</u>					
1(a)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated 600/1000 Voltage grade unarmored Copper cables laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
li	1 Core 300mm2	Rm	2,000			
1(b)	Supply, installation, testing, commissioning and termination of following sizes of PVC insulated single core 450/750 Voltage grade unarmored Copper cables as circuit protective conductor/ earth continuity conductor (CPC/ECC) laid direct in ground, pulled in PVC pipe already laid, on surface of wall or cable trays etc. including all accessories as required complete in all respects (Imported copper shall be used. Verified					

	documentary evidence for source of copper & PVC shall be furnished prior to manufacturing)					
I	1 Core 300mm2	Rm	300			
Ii	1 Core 150mm2	Rm	150			
Iii	1 Core 70mm2	Rm	300			
V	1 Core 16mm2	Rm	1,650			
2	<u>Synchronization Panel with Manual Bypass</u>					
	14 SWG synchronization panel with factory built assemblies having an angle iron frame claded with 2mm (min) steel sheet enclosure having high quality powder coated paint (color RAL 7032) IP Class.44/54 complete in all aspects including but not limited to Synchronous/Auto start module, all accessories/ components/control wiring including control cable, MCCB, ACB, MCO, MCB, Bus Couplers/suitable electro mechanical interlocking (as applicable), meters, indication lights, timers, relays, CTs, push buttons, indication lights, terminal blocks, buzzers cable glands at bottom for cable entry of appropriate sizes, door, locking arrangement etc. and all other accessories as defined herein, mentioned in relevant specifications or drawings as per approval of the Engineer. Bus bars shall be of 415V, TPN&E. Panel board.	Each	1			

	shall be mounted on foundation/base frame with all installation and operational accessories as per site specifications, drawings or as directed by the Engineer. Synchronous modules shall be selected for proper operation of the system/generator(s) in parallel duly interconnected and rated for given load. 02 Nos. of DG Set Synchronization module make Deep sea UK or equivalent along with self-seeking power supply make Deep sea UK, or equivalent including UVT and shunt trip etc. with all accessories. <u>Specifications For Panel:</u> LV Panels (3-Phase, 400V, 4-Wire, 50Hz AC system) with following requirements: Pad mounted, Front access type Double powder coated 14 SWG MS sheet Bus bar of appropriate size (size/cross-section should be clearly mentioned in quotation based on calculation according to relevant IEC standard). O/G and I/C Cable Entries from Bottom. With Removable Plate for Cable Tray Top Bottom both removable Plates Front covering plate for all breakers Earthing arrangement (Neutral Earth Separate Bus Bar). Door operated one LED tube light 230V, Exhaust Fan in each Cubicle. Incoming: 2 No., according to DG Sets ratings, 4P, Motorized MCCB with electrical interlocking. Set of Instrument Fuses 2x Set of ON/OFF Push Buttons. 1x LOCAL/REMOTE Selection Switch. 2x Digital Voltmeter, Digital Ampere meter with, Selector Switch, 2x Phase R.Y.B & ON/OFF/TRIP indication lights Outgoing:	Job	01			
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	1 No. 100A, Adj, MCCB, 36KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 60A, Adj, MCCB, 25KATP, 400V. Digital Ampere Meter with, Selector Switch, 2 No. 30A, MCCB, 16KA TP, 400V.					
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3	<u>DG SET</u>					
	400 Volts, three phase four wire, 50 Hz skid mounted DG set including day tank suitable for 24 hours of rated capacity with foundation and all required accessories. Note: *DG set with continuous rating shall be installed on sites where utility power supply source is not available. Specifications: 45 deg C, Diesel Generator Set with radiator. Skid Mounted Package Type Electric Power Generator engine and alternator directly coupled over commonage frame with anti-vibration mountings (AVM pads) Outdoor type with Radiator and fuel tank. Output Rating: Prime Power in accordance with ISO 8528(10% overload power for 1 hour in 12 hours, as defined in ISO 3046,110KVAe/88KWe Standby Power) @ 0.8PF lagging, voltage (+/-5%) 50H:400/230 Volts. Reference conditions: 0 to 50 C Ambient temperature and 1000 Meter above sea level, 60% relative humidity. No derating shall occur within these conditions. Engine: Make: Perkins, Cummins, Caterpillar (or equivalent) (Country of origin UK, USA, China and European). India & Israel strictly not allowed Insulation : CLASS H Double or single bearing, anti-condensation heater and PTC thermistor. Voltage regulation:+/-1% with any power factor from no load to full load and in steady state THD: <5% Short circuit capacity: >300% <u>DG Set Control Panel Specifications:</u> MCCB: As per recommended for DG Set ratings, 4P,MCCB. Make: Schneider/ABB/Siemens or equivalent.	Job	01			

Controller: Preferably Deep-sea/equivalent latest approved brand & model only for DG Set& commercial changeover. Assembler: UK, Turkey, China and European Only. (India & Israel strictly not allowed. Local assembled not accepted) Digital Indications: AC Volts, Amps, Hz KWH, KW RPM Operating hours Oil pressure Coolant temp DC volts Alarms & Shutdowns with indicating lights: Low oil pressure High coolant temp Over speed/Under speed Emergency stop Failure to start Protections: Engine Speed (Over and under) Engine Coolant temperature. Lube oil Pressure. Fuel Temperature. Under and over voltage Under and over frequency Overload Short Circuit All standard safeties on any latest power Generator Communications: Modbus TCP/IP & RS 232/RS 485 (with Mod Bus register mapping). Base Attached Deisel Tank:					
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	Compliance: Must be manufactured and labeled in accordance with UL 142 (Steel Aboveground Tanks) or UL 2085 (Fire-Protected Tanks). Material: Heavy-duty reinforced steel plates; the interior must remain unpainted and galvanized to prevent chemical reactions with diesel. Containment: Double-walled (integral bonding) design. The secondary containment must have a minimum capacity of 110% of the primary tank. Load Bearing: The tank structure must be reinforced with internal box channels to support the full weight of the DG set and its vibrations. 2. Physical & Functional Features Capacity: Sized for 24 hours of full-load operation. Venting: Dedicated ports for normal atmospheric venting and emergency pressure relief venting. Fuel Supply/Return: The supply line must be positioned 50–100mm above the tank floor to prevent sediment from entering the engine. Return lines should be positioned to minimize turbulence. Baffles: Internal fuel baffles to minimize fuel surging and provide additional structural rigidity. 3. Monitoring & Safety Components Leak Detection: Mechanical or electronic sensors installed in the interstitial space between the two walls. Level Control: Calibrated fuel level gauge with electronic outputs for "Low Fuel" and "High Fuel" alarms. Overfill Protection: Must include a manual or automatic overfill prevention valve (typically set to 95% capacity). Valves: Anti-siphon valves are required if the fuel level is higher than the engine injectors.					
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	Installation must comply with NFPA 30 (Flammable and Combustible Liquids) and NFPA 37 (Stationary Combustion Engines). Maintenance: Provide a dedicated drain plug at the lowest point of the tank for water and sludge removal.					
a)	150 kVA Prime rating*	Job	1			
b)	300 kVA Prime rating*	Job	1			
4	<u>Sound and Weather Proof Canopy</u>					
	Supply and Installation of weather proof canopy locally fabricated from sheet steel, derusted phosphate & electrostatic painted, supper silent sound proof canopy with noise level of 85 dB at 1 meter complete with sound proof flame retardant linings, sealed on surfaces, rust proof hinges with rubber sunbbers, stainless steel bolts & rivets, insulated Engine muffler mounted with in canopy, complete in all respects and to the entire satisfaction of the Engineer/Consultants.					
a)	suitable for 150 kVA Prime rating* DG set	Job	1			
b)	suitable for 300 kVA Prime rating* DG set	Job	1			
5	<u>Under Ground Bulk Fuel Tank</u>					
	Under Ground Bulk Fuel Tank, 10,000 liters capacity (For 01 No. 150kVA DG Set & 01 No. 300kVA DG Set), 6mm thick MS sheet including excavation, concrete floor, retaining walls, concrete cover, water/ weather proofing arrangements , transfer pumps, strainers, auto fuel filling system with piping from bulk storage tank to day tank and from day tank to Genset, pumps, piping, valves, solenoids, control panel and control cables as well as filling motor including any other equipment/ accessories required for proper operation of the system complete in all respects.	Job	02			

6	<u>Earthing</u>					
A	Earth point comprising of 10 ft. 5/8" dia. (16 mm dia) copper coated M.S. rods driven in ground near each lighting control panel. The earthing rods shall be completed with fixing clamps etc.	Each	05			
B	Bore type, earthing up to permanent water level/moist soil by arrangement of earth pit/point comprising of concrete/brickwork housing with lifting cover 50mm perforated GI pipe, appropriate bare copper stranded conductor as per details in drawing. The earthing and bonding shall be complete with fixing clamps etc. & all metal works shall be bonded to the proposed earthing network.	Job	05			
C	Drilling of earth bore 3" dia 100 ft. deep or up to permanent water table.					
D	Supply and installation of G.I pipe 2" dia 14 SWG to be installed in pre-made bore including all accessories like tees, bends, sockets etc. Pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects.					
E	Supply and installation of tinned copper spike to be manufactured as per detail shown on drawing. Spike shall be connected/screwed at bottom of G.I pipe including all accessories like nuts and bolts complete in all respect.					
F	Supply and installation of 2 Nos. 70 mm ² bare stranded electrolytic copper conductor lead in preload G.I pipe and connected to tinned copper spike as shown on drawing. 02Nos.leads to be installed including all accessories like brass nuts, bolts, washers etc complete in all respect.					
G	Supply and installation of tinned earth test link in earthing pit consisting of copper plate (12"x2"x1/2") with fixing arrangement					

	on the wall of man hole including brass nuts, bolts washers lugs etc. complete in all respect.					
H	Construction of earthing pit (manhole) of internal size 18"x18"x24" deep with 9" thick brick wall with cement mortar, internal plaster 1:4, RCC 4" thick cover with lifting hooks including all accessories complete in all respect.					
I	Testing and commissioning of the earthing system along with all testing accessories complete in all respect.					
Total DDP Price in PKR						

Form of Bid Security

(Bank Guarantee)

[The bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Purchaser to insert its name and address]*

RFB No.: *[Purchaser to insert reference number for the Request for Bids]*

Alternative No.: *[Insert identification No if this is a Bid for an alternative]*

Date: *[Insert date of issue]*

BID GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _____ *[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Bid (hereinafter called "the Bid") for the execution of _____ under Request for Bids No. _____ ("the RFB").

Furthermore, we understand that, according to the Beneficiary's conditions, Bids must be supported by a Bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

- (a) has withdrawn its Bid prior to the Bid validity expiry date set forth in the Applicant's Letter of Bid, or any extended date provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary prior to the expiry date of the Bid validity or any extension thereof provided by the Applicant has failed to:
 - (i) sign the contract agreement, or
 - (ii) furnish the performance security, in accordance with the Instructions to Bidders ("ITB") of the Beneficiary's bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such Contract agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Bidding process; or (ii) twenty-eight days after the expiry date of the Bid validity.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758.

[Signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

Form of Bid Security (Bid Bond) - Not Applicable

[The Surety shall fill in this Bid Bond Form in accordance with the instructions indicated.]

BOND NO. _____

BY THIS BOND *[name of Bidder]* as Principal (hereinafter called “the Principal”), and *[name, legal title, and address of surety]*, **authorized to transact business in** *[name of country of Purchaser]*, as Surety (hereinafter called “the Surety”), are held and firmly bound unto *[name of Purchaser]* as Obligee (hereinafter called “the Purchaser”) in the sum of *[amount of Bond]*¹ *[amount in words]*, for the payment of which sum, well and truly to be made, we, the said Principal and Surety, bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal has submitted or will submit a written Bid to the Purchaser dated the ____ day of _____, 20__, for the supply of *[name of Contract]* (hereinafter called the “Bid”).

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal:

- (a) withdraws its Bid prior to the Bid validity expiry date set forth in the Principal’s Letter of Bid, or any extended date provided by the Principal; or
- (b) having been notified of the acceptance of its Bid by the Purchaser prior to the expiry date of the Bid validity or any extension thereto provided by the Applicant has failed to: (i) execute the Contract agreement; or (ii) furnish the Performance Security, in accordance with the Instructions to Bidders (“ITB”) of the Purchaser’s bidding document.

then the Surety undertakes to immediately pay to the Purchaser up to the above amount upon receipt of the Purchaser’s first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser shall state that the demand arises from the occurrence of any of the above events, specifying which event(s) has occurred.

The Surety hereby agrees that its obligation will remain in full force and effect up to and including the date 28 days after the date of expiry of the Bid validity set forth in the Principal’s Letter of Bid or any extension thereto provided by the Principal.

IN TESTIMONY WHEREOF, the Principal and the Surety have caused these presents to be executed in their respective names this ____ day of _____ 20__.

Principal: _____ Surety: _____

Corporate Seal (where appropriate)

¹ The amount of the Bond shall be denominated in the currency of the Purchaser’s Country or the equivalent amount in a freely convertible currency.

(Signature)
(Printed name and title)

(Signature)
(Printed name and title)

Form of Bid-Securing Declaration (Not Applicable)

[The Bidder shall fill in this Form in accordance with the instructions indicated.]

Date: *[date (as day, month and year)]*

Bid No.: *[number of RFB process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[complete name of Purchaser]*

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding or submitting proposals in any contract with the Purchaser for the period of time specified in Section II – Bid Data Sheet, if we are in breach of our obligation(s) under the Bid conditions, because we:

- (a) have withdrawn our Bid prior to the expiry date of the Bid validity specified in the Letter of Bid or any extended date provided by us; or
- (b) having been notified of the acceptance of our Bid by the Purchaser prior to the expiry date of the Bid validity in the Letter of Bid or any extended date provided by us, (i) fail or refuse to sign the Contract; or (ii) fail or refuse to furnish the Performance Security, if required, in accordance with the ITB.

We understand this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiry date of the Bid validity.

Name of the Bidder* _____

Name of the person duly authorized to sign the Bid on behalf of the Bidder** _____

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ day of _____, _____

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

**: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]

Section V - Eligible Countries

Eligibility for the Provision of Goods, Works and Non Consulting Services in Bank-Financed Procurement

In reference to ITB 4.8 and ITB 5.1, for the information of the Bidders, at the present time firms, goods and services from **the countries that does not have trade relationships with Pakistan** are excluded from this Bidding process.

Section VI - Fraud and Corruption

(Section VI shall not be modified)

1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
 - i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - v. "obstructive practice" is:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.

- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, 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 in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines, and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;¹ (ii) to be a nominated² sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents, personnel, permit the Bank to inspect³ all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

¹ For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

² A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

³ Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

PART 2 – Supply Requirements

Section VII - Schedule of Requirements

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1. List of Goods and Delivery Schedule

Line Item No.	Description of Goods	Quantity	Physical unit	Final Destination (Project Site) as specified in BDS	Delivery (as per Incoterms) Date(as per Incoterms i.e final destination/DDP)	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
1.	DG Sets & Allied Components with associated incidental and allied services for (Lot 01)	As specified in the Technical Specifications and BOQs		DI KHAN HAKLA MOTORWAY M-14(CPEC), KALA BAGH BRIDGE, JINNAH BRIDGE, CHASHMA BARRAGE	Within 180 calendar days from the Date of Contract Signing	
2.	DG Sets & Allied Components with associated incidental and allied services for (Lot 02)			GUDDU BARRAGE, KOTRI BRIDGE	Within 180 calendar days from the Date of Contract Signing	
3.	DG Sets & Allied Components with associated incidental and allied services for (Lot 03)			SEHWAN (ARAL BIDGE), SEHWAN BHAN SAEED ABAD, KHUKERA, HUB (MYGARHI OR CHLEGHEZI CUT)	Within 180 calendar days from the Date of Contract Signing	

Note:

1. Each site shall be treated as a separate delivery milestone solely for the purposes of inspection, acceptance, documentation and payment. The Supplier shall remain fully responsible for complete execution of the Contract until successful supply, delivery, installation, commissioning and acceptance of all sites.
2. The Purchaser may increase or decrease quantities/sites.
3. A site shall be considered complete only after:
 - delivery of generator and accessories;
 - installation;
 - fuel/oil filling;
 - cabling and integration;
 - testing and commissioning;
 - load testing;
 - submission of manuals;
 - training of site personnel;

- issuance of Site Completion Certificate.
 - The warranty period for each site shall commence from the date of issuance of the Site Completion Certificate
4. The Purchaser may:
 - I. Add, reduce the quantities and add or remove sites;
 - II. revise quantities;
 - III. change delivery sequence.
 5. The Supplier may execute work simultaneously at multiple Sites within the awarded Lot, provided that the contractual completion period for the Lot is maintained.

2. Technical Specifications – DG Sets & Allied Components with associated incidental and allied services

Supply, installation, testing, and commissioning of prime rated diesel generator sets, including complete turnkey installation with all associated installation(civil works), electrical works, earth pits, AMF panels with MOR option on all DES sites as mentioned in the BOQs and relevant sections.

HIGH LEVEL FUNCTIONAL REQUIREMENTS OF THE SYSTEM:

1. Normal Operation (Utility Supply Available)

AMF monitors utility supply.

If utility fails, AMF signals the master genset to start.

Upon successful start and stable voltage/frequency, AMF switches load to genset.

2. Master Genset Start Failure

If the master genset fails to start within a configurable delay (e.g., 10 seconds), AMF sends start command to slave genset.

Slave genset takes over load if voltage/frequency is within preset parameters.

3. DG PV Synchronisation:

IF the solar supply is available the genset will run on maximum fuel efficiency rating as per standard PV DG Synch criteria until solar supply is available.

4. Solar Supply Not Available:

In absence of solar/battery supply Master genset must be able to add the slave genset in case of load above 80% of its maximum rating for synchronization and load sharing purposes.

5. Return to Utility Power

When utility power is restored and stable, AMF automatically transfers the load back to utility smoothly as no break return procedure with appropriate ramp down function.

Running gensets are commanded to stop after cool-down period.

6. Testing & Commissioning

- I. Prior to dispatch of the DG Set(s) to the respective Site(s), the Supplier shall conduct a Factory Acceptance Test (FAT) at the manufacturer's works, the authorized assembler's facility, or the Supplier's testing facility where the complete assembled DG Set is available for testing. The Supplier shall bear all costs associated with conducting the FAT, including testing facilities, equipment, labour, consumables. Any costs associated with facilitating the Purchaser's staff inspection will be borne by the Purchaser. Where the FAT is conducted outside the Purchaser's premises, transportation of the DG Set(s) to and from the testing facility, where required, shall be at the Supplier's cost.
- II. The load testing to prove the Prime Rating of the D.G Set should be as following sequence;

25% of full load 1 hrs.
50% of full load 2 hrs.
75% of full load 4 hrs.
100% of full load 4 hrs.
110% of full load 1 hr.

7. **CODES & Standards**

- IEC 60947-6-1 (Automatic Transfer Switching Equipment)
- IEC 61439 (Low-voltage switchgear and control gear assemblies)
- ISO 8528 (Genset standard)

8. **Warranty**

The Supplier shall provide a comprehensive warranty for the complete supplied and installed system for a period of three (03) years from the date of issuance of the Site Acceptance Certificate for the respective Site. The comprehensive warranty shall cover all Goods, equipment, components, accessories, installation, integration and workmanship supplied under the Contract.

In addition, the major OEM equipment, including the DG Set/engine, alternator, controller and ATS, as applicable, shall be supported by the respective manufacturer's/OEM's warranty for a minimum period of three (03) years.

The Supplier shall remain the single point of responsibility for administration and fulfillment of all warranty obligations.

9. **Waste Management**

The Supplier shall collect, store, transport and dispose of all hazardous wastes generated during execution of the Contract, including spent batteries, used oils, oil filters, contaminated absorbents, damaged electrical components and other hazardous materials, through licensed waste management or recycling facilities in accordance with applicable Pakistani legislation and the World Bank Environmental and Social Standards.

Open dumping, uncontrolled disposal or burning of hazardous waste shall not be permitted.

Documentary evidence of disposal or recycling shall be submitted to the Purchaser before Final Acceptance.

10. **Engine Emission Standards**

The offered diesel engine shall comply with the applicable internationally recognized emission standards equivalent to or higher than **EU Stage IIIA / US EPA Tier 3** (or equivalent internationally recognized standard acceptable to the Purchaser).

Exhaust emissions shall comply with the applicable requirements of the World Bank Group Environmental, Health and Safety Guidelines.

11. Secondary Containment

Each installation site shall be provided with an appropriate spill response kit suitable for diesel fuel handling.

Personnel involved in fuel handling shall receive spill prevention and spill response training before commencement of fuel transfer operations.

Any fuel spill shall be immediately contained, cleaned and disposed of in accordance with the approved Environmental Management procedures.

Where contamination of soil occurs, the Supplier shall remediate the affected area and restore the site to the satisfaction of the Purchaser.

12. Site-Specific Occupational Health and Safety Plan

Within fourteen (14) days after Contract signing and before commencement of any site activities, the Supplier shall prepare and submit a Site-Specific Occupational Health and Safety (OHS) Plan for the Purchaser's approval. The supplier shall nominate a person who will coordinate and implement the OHS related trainings and plans and those record shall be shared with the Purchaser.

13. Security Personnel

Where security personnel are engaged by the Supplier or its subcontractors during execution of the Contract, they shall:

- act in accordance with applicable Pakistani laws;
- receive appropriate induction regarding the Supplier's Code of Conduct;
- respect local communities;
- avoid unnecessary use of force;
- comply with the Environmental and Social Commitment Plan (ESCP), Labour Management Procedures (LMP) and applicable World Bank Environmental and Social Standards.

14. Traffic Management Plan

Prior to transportation of DG Sets and heavy equipment to any Site, the Supplier shall prepare and implement a Site-Specific Traffic Management Plan.

15. The Generator Set shall be capable of continuous, reliable and safe operation under the climatic and environmental conditions prevailing at the respective DES Site and shall achieve

the guaranteed performance parameters specified in the Contract. Failure to achieve the guaranteed performance during testing shall constitute non-compliance.

16. Supplier should submit:

- Foundation Drawings
- Cable Routing
- Earthing Layout
- Fuel Tank Layout
- SLD
- Control Wiring
- GA Drawings

before installation. Without approved drawings, no work should commence.

17. Before execution, Supplier shall verify

- Cable sizing
- Earthing
- Voltage drop
- Load balance
- Foundation loading
- Ventilation
- Exhaust routing
- And others

18. Supplier shall coordinate with other Contractors working at DES sites and shall ensure complete compatibility of supplied equipment with electrical infrastructure, control systems and future operational interfaces without additional cost.
19. The Bidder shall be deemed to have inspected and satisfied itself regarding site conditions, accessibility, lifting requirements, transportation constraints, utility interfaces, weather conditions and all circumstances affecting execution of the Works.
20. The Generator shall continuously operate at rated load under specified environmental conditions without abnormal vibration, overheating, excessive smoke, leakage, unacceptable noise or repeated alarms.
21. Purchaser may reject if output is low, Frequency is unstable, Voltage unstable, Noise exceeds, Leakage, Improper workmanship, Incorrect accessories, Wrong make, Old manufacture.
22. During operation, installation and testing activities, the Supplier shall implement all reasonable measures to minimize noise impacts on nearby communities, offices and sensitive receptors. Generator enclosure design, operational practices and testing activities shall comply with the applicable requirements of the World Bank Group Environmental, Health and Safety Guidelines.
23. the Bidder demonstrates its arrangement for the availability of established maintenance and repair service facilities, spare parts and warranty support provision in Pakistan throughout the warranty period.

Detailed Technical Specifications, Standards and BOQs

Lots Details:

Lot No.	Description	Sites Covered Under the Lot	Delivery Period
Lot 01	Procurement, Supply, Installation, Testing & Commissioning of DG Sets & Allied Components with associated incidental and allied services for DES Sites	DI KHAN HAKLA MOTORWAY M-14(CPEC) (BOQ-1) KALA BAGH BRIDGE (BOQ-2) JINNAH BRIDGE (BOQ-03) CHASHMA BARRAGE (BOQ-04)	180 Days from the date of signing of contract
Lot 02		GUDDU BARRAGE (BOQ-05) KOTRI BRIDGE (BOQ-06)	
Lot 03		SEHWAN (ARAL BIDGE) (BOQ-07) SEHWAN BHAN SAEED ABAD (BOQ-08) KHUKERA (BOQ-9) HUB (MYGARHI OR CHLEGHEZI CUT) (BOQ-10)	

Generator Set shall be supplied as a complete operational package. Unless specifically excluded in the Schedule of Requirements, the quoted price shall include all accessories, fittings, interconnecting cables, earthing materials, mounting hardware, fuel piping, exhaust system, acoustic treatment, control cabling, batteries, battery charger, engine fluids, consumables, testing equipment, commissioning materials and all ancillary components necessary to deliver a complete, safe and fully functional installation.

The Supplier shall remain solely responsible for design verification, compatibility of all supplied equipment, proper sizing, successful integration, testing, commissioning and satisfactory operation of the complete system irrespective of whether individual components are specifically mentioned in the Bill of Quantities.

Detailed specifications are provided with the BOQ.

APPLICABLE FOR ALL LOTS AND SITES

Standard / Compliance Requirements

Unless otherwise specified, all materials, equipment, components and accessories supplied under the Contract shall be new, unused, of current production, free from defects and suitable for continuous outdoor operation under the specified environmental conditions.

The offered equipment shall comply with the latest applicable editions of internationally recognized standards, including, as applicable, IEC, ISO, IEEE, BS EN, ANSI, NEMA or equivalent internationally accepted standards.

The Supplier shall ensure compatibility between all major equipment, accessories and protection devices forming part of the DG Set installation.

The following minimum documented evidence of equipment manufactures/standards requirements shall apply:

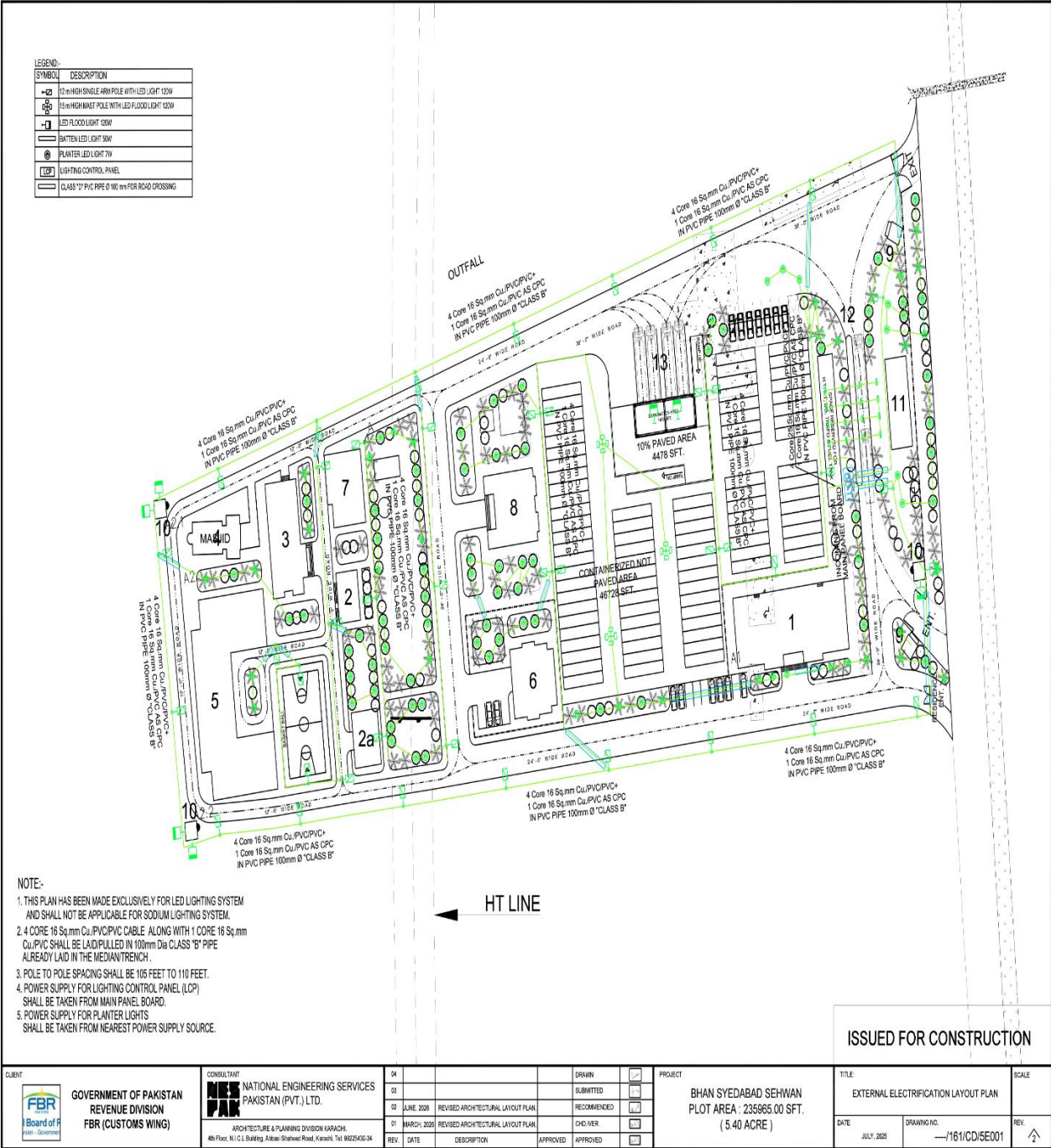
- **Low Voltage and Control Cables:** XLPE/PVC insulated, Class 2 (Stranded Conductors) Follow ASTM International specifications for chemical composition and minimum 99.9% copper purity,, flame-retardant, compliant with IEC 60502 & IEC 60228 or equivalent.
- **PVC Conduits and Accessories:** Heavy-duty, UV-resistant, compliant with IEC 61386 or equivalent.
- **Steel Conduits and Accessories:** Hot-dip galvanized, corrosion-resistant, compliant with IEC 61386 or equivalent.
- **Circuit Breakers (MCB, MCCB, ACB, ELCB) & Magnetic Contactors:** Compliant with IEC 60898, IEC 60947 or equivalent, with suitable breaking capacity and protection characteristics. Suitable for industrial applications
- **Meters (Ammeter, Voltmeter, Multifunction Meter):** Digital, true RMS, IEC compliant and suitable for continuous industrial operation With safety class IEC 61010-1 & IEC 61010-2-030 and IEC 61557-12, IEC 60051 for metering
- **Current Transformers and Voltage Transformers:** Accuracy Class and performance suitable for metering and protection applications in accordance with IEC 61869 or equivalent.
- **Selector Switches, Push Buttons and Indication Lamps:** Industrial-duty type, IEC compliant.
- **Terminal Blocks:** Modular DIN-rail mounted type, IEC compliant.
- **Cable Trays and Ladders:** Hot-dip galvanized steel or equivalent corrosion-resistant material suitable for outdoor installation. With ISO 9001 certified premissis and Load Bearing Capacity Sheet s specifying the maximum allowable cable weight per meter based on NEMA VE 1 guidelines

- **Wiring Accessories:** Industrial-grade and compatible with the installation environment.
- **ATS/AMF Controllers and Battery Chargers:** Marine grade with IEC 60947-6-1 and EN 50178 standard Microprocessor-based, fully programmable and compatible with the free software programmable for offered DG Set.
- **Alternator:** Brushless synchronous alternator complying with IEC 60034 or equivalent, suitable for continuous prime-duty operation.
- **Diesel Engine:** Brand New /Unused ISO 8528 Class G3 Water-cooled, turbocharged (where applicable), heavy-duty industrial diesel engine complying with ISO 8528 and the specified engine emission standards.
- **Radiator:** Tropical Rating (50°C Ambient) with engine-Mounted (Set-Mounted)

Where a manufacturer, trade name, catalogue number or brand is referenced elsewhere in the this RFB/Contract Documents, such reference shall be deemed to mean "**or equivalent**", and the Bidder may offer equivalent products that demonstrably meet or exceed the specified technical, functional and performance requirements, subject to the Purchaser's acceptance.

3. Drawing/Layout

Below is the site layout.



4. Inspections and Tests

The following inspections and tests shall be performed:

Mechanical & Installation Checks

- Visual inspection: Verify alignment, foundation, vibration pads, and secure mounting.
- Lubrication check: Ensure correct oil levels and absence of leaks.
- Cooling system test: Radiator, coolant levels, and hose integrity.
- Fuel system inspection: Proper connections, priming, and leak-free operation.

Electrical Tests

- Insulation resistance test: Measure winding insulation using a megger.
- Earth resistance test: Ensure proper grounding.
- No-load voltage test: Confirm generator produces correct voltage without load.
- Load test: Apply varying loads to check voltage stability, frequency, and efficiency.

Functional & Performance Tests

- Starting test: Cold and hot start reliability.
- Automatic transfer switch (ATS) test: Verify seamless transfer between mains and generator.
- Overload test: Check performance under rated and slightly higher loads.
- Frequency stability test: Ensure output remains at 50 Hz (Pakistan standard).

Safety & Protection Tests

- Emergency shutdown test: Verify sensors for oil pressure, coolant temperature, and overspeed.
- Circuit breaker operation: Confirm protection devices trip correctly.
- Noise & vibration measurement: Ensure compliance with environmental standards.

Testing & Commissioning

- I. Prior to dispatch of the DG Set(s) to the respective Site(s), the Supplier shall conduct a Factory Acceptance Test (FAT) at the manufacturer's works, the authorized assembler's facility, or the Supplier's testing facility where the complete assembled DG Set is available for testing. The Supplier shall bear all costs associated with conducting the FAT, including testing facilities, equipment, labour, consumables. A costs associated with facilitating the Purchaser's staff inspection will be borne by the Purchaser. Where the FAT is conducted outside the Purchaser's premises, transportation of the DG Set(s) to and from the testing facility, where required, shall be at the Supplier's cost. The load testing to prove the Prime Rating of the D.G Set should be as following sequence;
25% of full load 1 hrs.
50% of full load 2 hrs.
75% of full load 4 hrs.
100% of full load 4 hrs.
110% of full load 1 hr.

The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at the Purchaser's delivery point shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Purchaser or its representative prior to the Goods' shipment from the factory/ warehouse.

Nothing mentioned here “Inspection and Tests” shall not in any way release the Supplier from any warranty or other obligations under this Contract. Inspection shall be conducted separately for each site.

PART 3 – Conditions of Contract and Contract Forms

Section VIII - General Conditions of Contract

Section VIII - General Conditions of Contract

General Conditions of Contract	
1. Definitions	1.1 The following words and expressions shall have the meanings hereby assigned to them: (a) “Bank” means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA) (b) “Contract” means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein. (c) “Contract Documents” means the documents listed in the Contract Agreement, including any amendments thereto. (d) “Contract Price” means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract. (e) “Completion” means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract. (f) “Day” means calendar day. (g) “Delivery” means the transfer of the Goods from the Supplier to the Purchaser in accordance with the terms and conditions set forth in the Contract. (h) “GCC” means the General Conditions of Contract. (i) “Goods” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract. (j) “Purchaser” means the entity purchasing the Goods and Related Services, as specified in the SCC. (k) “Related Services” means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract. (l) “SCC” means the Special Conditions of Contract. (m) “Subcontractor” means any person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.

	(n) “Supplier” means the person, private or government entity, or a combination of the above, whose Bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement. (o) “The Project Site,” where applicable, means the place named in the SCC.
2.Contract Documents	2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.
3.Fraud and Corruption	3.1 The Bank requires compliance with the Bank’s Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in APPENDIX 1 to the GCC. 3.2 The Purchaser requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.
4.Interpretation	4.1 If the context so requires it, singular means plural and vice versa. 4.2 Incoterms: (a) Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms specified in the SCC. (b) The terms EXW, FCA, CPT, CIP, DDP, FOB and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the SCC and published by the International Chamber of Commerce in Paris, France. 4.3 Entire Agreement: The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract. 4.4 Amendment: No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

	4.5 Nonwaiver: (a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract. (b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived. 4.6 Severability: If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.
5.Language	5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in the language specified in the SCC. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified, in which case, for purposes of interpretation of the Contract, this translation shall govern. 5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.
6.Joint Venture, Consortium or Association	6.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser. 6.2 If the Supplier comprises a JV, Consortium or Association, the Supplier (and each JV partner individually) acknowledges and agrees to actively participate and contribute its fair share of resources, as set forth in the JV, Consortium or Association Agreement and related bid documents. Active involvement shall include, but not be limited to, contributing financial resources, personnel, expertise, equipment, and

	other resources as specified in the JV, Consortium or Association Agreement. The Supplier (and each Partner) shall adhere to the contribution commitments outlined in the JV, Consortium or Association Agreement and related bid documents and shall promptly fulfill its obligations in a timely manner. The Purchaser shall have the right to verify and monitor each partner's contributions to ensure compliance with the JV, Consortium or Association Agreement and related bid documents.
7. Eligibility	7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.
	7.2 All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components. Eligibility of the Goods and Related Services shall be further subject to GCC 9.2 below.
8. Notices	8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the SCC. The term “in writing” means communicated in written form with proof of receipt.
	8.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.
9. Governing Law	9.1 The Contract shall be governed by and interpreted in accordance with the laws of Islamic Republic of Pakistan.
	9.2 Throughout the execution of the Contract, the Supplier shall comply with the import of goods and services prohibitions in Pakistan when: (a) as a matter of law or official regulations, Pakistan prohibits commercial relations with that country; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Pakistan prohibits any import of goods from that country or any payments to any country, person, or entity in that country.

10.Settlement of Disputes	10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
	10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.
	10.3 Notwithstanding any reference to arbitration herein, (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and (b) the Purchaser shall pay the Supplier any monies due the Supplier.
11.Inspections and Audit by the Bank	11.1 The Supplier shall keep, and shall make all reasonable efforts to cause its Subcontractors to keep, accurate and systematic accounts and records in respect of the Goods in such form and details as will clearly identify relevant time changes and costs.
	11.2 Pursuant to: sub-item 2.2 (e) of Fraud and Corruption, the Supplier shall permit and shall cause its agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit, the Bank and/or persons appointed by the Bank to inspect the site and/or the accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have such accounts, records and other documents audited by auditors appointed by the Bank. The Supplier's and its Subcontractors' and subconsultants' attention is drawn to Sub-Clause 3.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).
12.Scope of Supply	12.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.
	12.2 Unless otherwise stipulated in the Contract, the Scope of Supply shall include all such items not specifically mentioned in the Contract, besides

	samples that are specified in the SCC if required, but that can be reasonably inferred from the Contract as being required for attaining Delivery and Completion of the Goods and Related Services as if such items were expressly mentioned in the Contract.
13.Delivery and Documents	13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are specified in the SCC.
14.Supplier's Responsibilities	14.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.
	14.2 The Supplier, including its Subcontractors, shall not employ or engage forced labor or persons subject to trafficking, as described in GCC Sub-Clauses 14.3 and 14.4.
	14.3 Forced labor consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labor, such as indentured labor, bonded labor or similar labor-contracting arrangements.
	14.4 Trafficking in persons is defined as the recruitment, transportation, transfer, harbouring or receipt of persons by means of the threat or use of force or other forms of coercion, abduction, fraud, deception, abuse of power, or of a position of vulnerability, or of the giving or receiving of payments or benefits to achieve the consent of a person having control over another person, for the purposes of exploitation.
	14.5 The Supplier, including its Subcontractors, shall not employ or engage a child under the age of 14 unless the national law specifies a higher age (the minimum age).
	14.6 The Supplier, including its Subcontractors, shall not employ or engage a child between the minimum age and the age of 18 in a manner that is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.
	14.7 Work considered hazardous for children is work that, by its nature or the circumstances in which it is carried out, is likely to jeopardize the health, safety, or morals of children. Such work activities prohibited for children include work:

	(a) with exposure to physical, psychological or sexual abuse; (b) underground, underwater, working at heights or in confined spaces; (c) with dangerous machinery, equipment or tools, or involving handling or transport of heavy loads; (d) in unhealthy environments exposing children to hazardous substances, agents, or processes, or to temperatures, noise or vibration damaging to health; or (e) under difficult conditions such as work for long hours, during the night or in confinement on the premises of the employer. 14.8 The Supplier shall comply, and shall require its Subcontractors if any to comply, with all applicable health and safety regulations, laws, guidelines, and any other requirement stated in the Technical Specifications. 14.9 The Supplier shall comply with additional obligations as specified in the SCC.
15.Contract Price	15.1 The Contract Price shall be as specified in the Agreement subject to any additions and adjustments thereto, or deductions therefrom, as may be made pursuant to the Contract. 15.2 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid, with the exception of any price adjustments authorized in the SCC.
16.Terms of Payment	16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the SCC. 16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract. Partial Payment on Partial 16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it. 16.4 The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the Bid price is expressed. 16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the SCC, the Purchaser

	shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the SCC , for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award.
17.Taxes and Duties	17.1 For goods manufactured outside Pakistan, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside Pakistan.
	17.2 For goods Manufactured within Pakistan, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
	17.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in Pakistan, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.
18.Performance Security	18.1 If required as specified in the SCC , the Supplier shall, within twenty-eight (28) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount specified in the SCC . In case if the Supplier is a JV, Consortium or Association, the performance security shall be in the name of the JV, Consortium or Association. The performance security in the name of any JV partner or submitted by any JV partner on behalf of the entire JV, Consortium or Association shall not be acceptable.
	18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
	18.3 As specified in the SCC , the Performance Security, if required, shall be denominated in the currency(ies) of the Contract, or in a freely convertible currency acceptable to the Purchaser; and shall be in one of the formats stipulated by the Purchaser in the SCC , or in another format acceptable to the Purchaser.
	18.4 The performance security must remain valid until Completion of the Supplier's performance obligations under the Contract, including any warranty / functional Guarantee obligations. The Performance security with insufficient validity shall not be acceptable. The performance security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty / functional Guarantee obligations, unless specified otherwise in the SCC .

19. Copyright	19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.
20. Confidential Information	20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.
	20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the Contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.
	20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that: (a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract; (b) now or hereafter enters the public domain through no fault of that party; (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or (d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
	20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.
	20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

21.Subcontracting	21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the Bid, duly verifying eligibility of the respective subcontractors / suppliers in accordance with GCC 7.1 above. Notification by the Supplier, for addition of any Subcontractor not named in the Contract, shall also include the Subcontractor's declaration in accordance with Appendix 2 to the GCC-Sexual exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration. Such notification, in the original Bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract. 21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.
22.Specifications and Standards	22.1 Technical Specifications and Drawings (a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section V, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin; ; Provided that no relaxation in the warranty / functional Guarantee (as and if required) shall be made available to the Supplier due to severe climatic conditions in Pakistan. (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser. (c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.
23. Packing and Documents	23.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit. 23.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be

	expressly provided for in the Contract, including additional requirements, if any, specified in the SCC , and in any other instructions ordered by the Purchaser.
24. Insurance	24.1 Unless otherwise specified in the SCC , the Goods supplied under the Contract shall be fully insured—in a freely convertible currency from an eligible country—against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the SCC .
25. Transportation and Incidental Services	25.1 Unless otherwise specified in the SCC , responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.
	25.2 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC : (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods; (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods; (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty / functional guarantee obligations under this Contract; and (e) training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
	25.3 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.
26. Inspections and Tests	26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the Section V, Schedule of Requirements.
	26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in Pakistan as specified in the SCC . Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance,

	including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.
	26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
	26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
	26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the Technical Specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.
	26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
	26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.
	26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties / functional guarantees or other obligations under the Contract.
27.Delay Damages	27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct

	from the Contract Price, as delay damages, a sum equivalent to the percentage specified in the SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those SCC . Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.
28.Warranty	28.1 Warranty as per Scheule of Requirement shall be applicable.
	28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in Pakistan.
	28.3 Unless otherwise specified in the SCC , the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the SCC , or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.
	28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
	28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the SCC , expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
	28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the SCC , the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.
29.Patent Indemnity	29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

	(a) the installation of the Goods by the Supplier or the use of the Goods in Pakistan; and (b) the sale in any country of the products produced by the Goods. Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract. 29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. 29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf and at the expense of the Supplier. 29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing. 29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.
30.Limitation of Liability	30.1 Except in cases of criminal negligence or willful misconduct, (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay delay damages to the Purchaser and

	(b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Supplier to indemnify the Purchaser with respect to patent infringement.
31.Change in Laws and Regulations	31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of Pakistan where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.
32.Force Majeure	32.1 The Supplier shall not be liable for forfeiture of its Performance Security, delay damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
	32.2 For purposes of this Clause, “Force Majeure” means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
	32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
33.Change Orders and Contract Amendments	33.1 The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following: (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser; (b) the method of shipment or packing;

	(c) the place of delivery; and (d) the Related Services to be provided by the Supplier. 33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's change order. 33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services. 33.4 Value Engineering: The Supplier may prepare, at its own cost, a value engineering proposal at any time during the performance of the contract. The value engineering proposal shall, at a minimum, include the following; (a) the proposed change(s), and a description of the difference to the existing contract requirements; (b) a full cost/benefit analysis of the proposed change(s) including a description and estimate of costs (including life cycle costs) the Purchaser may incur in implementing the value engineering proposal; and (c) a description of any effect(s) of the change on performance/functionality. The Purchaser may accept the value engineering proposal if the proposal demonstrates benefits that: (a) accelerates the delivery period; or (b) reduces the Contract Price or the life cycle costs to the Purchaser; or (c) improves the quality, efficiency or sustainability of the Goods; or (d) yields any other benefits to the Purchaser, without compromising the necessary functions of the Facilities. If the value engineering proposal is approved by the Purchaser and results in: (a) a reduction of the Contract Price; the amount to be paid to the Supplier shall be the percentage specified in the SCC of the reduction in the Contract Price; or (b) an increase in the Contract Price; but results in a reduction in life cycle costs due to any benefit described in (a) to (d) above, the amount to be
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	paid to the Supplier shall be the full increase in the Contract Price: Provided that the reduction in life cycle costs is at least ten (10) percent, and the Supplier will provide a Bank Guarantee equivalent to the increased amount to be paid by the Purchaser, and it shall be valid over 'Life Cycle Time Period'; whereas, the amount of Bank Guarantee shall be reduced proportionately to the Time Period elapsed, to eventually become worthless at the end of 'Life Cycle Time Period'. 33.5 Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.
34. Extensions of Time	34.1 If at any time during performance of the Contract, the Supplier or its Subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract. 34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of delay damages pursuant to GCC Clause 27, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.
35. Termination	35.1 Termination for Default: (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part: (i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34; (ii) if the Supplier fails to perform any other obligation under the Contract; or (iii) if the Supplier, in the judgment of the Purchaser has engaged in Fraud and Corruption, as defined in the APPENDIX 1 to the GCC, OR violated the Integrity Pact, in competing for or in executing the Contract. (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Sub-Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar

	Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated. 35.2 Termination for Insolvency: (a) The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser. 35.3 Termination for Convenience: (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective. (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect: (i) to have any portion completed and delivered at the Contract terms and prices; and/or (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.
36. Assignment	36.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.
37. Export Restriction	37.1 Notwithstanding any obligation under the Contract to complete all export formalities, any export restrictions attributable to the Purchaser, to Pakistan, or to the use of the products/goods, systems or services to be supplied, which arise from trade regulations from a country supplying those products/goods, systems or services, and which substantially impede the Supplier from meeting its obligations under the Contract, shall release the Supplier from the obligation to provide deliveries or services, always provided, however, that the Supplier can demonstrate to the satisfaction of the Purchaser and of the Bank that it has completed all formalities in a timely manner, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under

	the terms of the Contract. Termination of the Contract on this basis shall be for the Purchaser's convenience pursuant to Sub-Clause 35.3.
38.Purchaser's Obligations	38.1 Whenever the supply of Goods and Related Services requires that the Supplier obtain permits, approvals, and import and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner.
	38.2 Subject to GCC Clause 17, Taxes and Duties, the Purchaser shall pay all costs involved in the performance of its obligations, in accordance with GCC Sub-Clause 38.1.

APPENDIX 1

Fraud and Corruption

(Text in this Appendix shall not be modified)

1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

a. Defines, for the purposes of this provision, the terms set forth below as follows:

- i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
- iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- v. "obstructive practice" is:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.

- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, 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 in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;¹ (ii) to be a nominated² sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents, personnel, permit the Bank to inspect³ all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

¹ For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

² A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

³ Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

APPENDIX 2

Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration for Subcontractors*

[The following table shall be filled in by each subcontractor proposed by the Supplier, that was not named in the Contract]

Subcontractor's Name: *[insert full name]*

Date: *[insert day, month, year]*

Contract reference *[insert contract reference]*

Page *[insert page number]* of *[insert total number]* pages

SEA and/or SH Declaration
We: ☐ (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations. ☐ (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations. ☐ (c) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.
<i>[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]</i>
Period of disqualification: From: _____ To: _____

Name of the Subcontractor _____

Name of the person duly authorized to sign on behalf of the Subcontractor _____

Title of the person signing on behalf of the Subcontractor _____

Signature of the person named above _____

Date signed _____ day of _____, _____

Countersignature of authorized representative of the Supplier:

Signature: _____

Date signed _____ day of _____, _____

Section IX - Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC 1.1(i)	The Purchaser’s Country is: <i>Pakistan</i>																										
GCC 1.1(j)	The Purchaser is: Federal Board of Revenue.																										
GCC 1.1(o)	The Project Site(s)/Final Destination(s) is/are:<table><tr><th>S No</th><th>Lot</th><th>Name of Stations</th></tr><tr><td>1</td><td rowspan="4">01</td><td>DIK-hakla motorway M-14(CPEC)</td></tr><tr><td>2</td><td>Kalabagh Bridge</td></tr><tr><td>3</td><td>Jinnah Bridge</td></tr><tr><td>4</td><td>Chashma Barrage</td></tr><tr><td>5</td><td rowspan="2">02</td><td>Guddu Barrage</td></tr><tr><td>6</td><td>Kotri bridge</td></tr><tr><td>7</td><td rowspan="4">03</td><td>Sehwan (Aral Bridge)</td></tr><tr><td>8</td><td>Sehwan Bhan Saeed Abad</td></tr><tr><td>9</td><td>Khurkera</td></tr><tr><td>10</td><td>HUB(Mygarhi or chleghezi cut)</td></tr></table>The locations of the above sites are enclosed at Annex – I.	S No	Lot	Name of Stations	1	01	DIK-hakla motorway M-14(CPEC)	2	Kalabagh Bridge	3	Jinnah Bridge	4	Chashma Barrage	5	02	Guddu Barrage	6	Kotri bridge	7	03	Sehwan (Aral Bridge)	8	Sehwan Bhan Saeed Abad	9	Khurkera	10	HUB(Mygarhi or chleghezi cut)
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9		Khurkera																									
10		HUB(Mygarhi or chleghezi cut)																									
GCC 1.1 (p)	The term SEA/SH where used in the Contract has the following meaning: • “Sexual Exploitation and Abuse” “(SEA)” means the following: Sexual Exploitation is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another. Sexual Abuse is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions. • “Sexual Harassment” “(SH)” is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by contractor’s personnel with other contractor’s, subcontractors’ or employer’s personnel.																										
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms.																										
GCC 4.2 (b)	The version edition of Incoterms shall be: 2020.																										
GCC 5.1	The language shall be: English																										

GCC 8.1	For <u>notices</u>, the Purchaser's address shall be: Attention: Additional Director (Procurement & Finance) Street Address: <i>FBR House, Constitution Avenue</i> Floor/ Room number: <i>Fifth Floor, Room No. 574</i> City: <i>Islamabad</i> ZIP Code: <i>44000</i> Country: <i>Pakistan</i> Telephone: <i>051-9215109</i> Electronic mail address: <i>addldirector.prr@fbr.gov.pk</i> For Supplier: <i>Supplier to submit</i>
GCC 9.1	The governing law shall be the law of: Islamic Republic of Pakistan
GCC 10.2	Arbitration proceedings shall be conducted in accordance with the rules of procedure of the Arbitration Act of Pakistan, 1940, as amended from time to time, as per the procedure defined by PPRA The place of arbitration shall be at Islamabad.
SCC 12.2	<i>Not Applicable.</i>
GCC 13.1	Details of Shipping and other Documents to be furnished by the Supplier are: Supplier's Valued Invoice(s), GST Invoice(s) (as applicable), Certificate of Origin, Warranty/ Support Certificate, Insurance Declaration (if applicable).

GCC 14.9	Respectful Work Environment: 14.9.1 The Supplier shall ensure that its employees and Subcontractors observe the highest ethical standards and refrain from any form of bullying, discrimination, misconduct and harassment, including sexual harassment and shall, at all times, behave in a manner that creates an environment free of unethical behavior, bullying, misconduct and harassment, including sexual harassment. The Supplier shall take appropriate action against any employees or Subcontractors, including suspension or termination of employment or sub-contract, if any form of unethical or inappropriate behavior is identified. 14.9.2 The Supplier shall conduct training programs for its employees and Subcontractors to raise awareness on and prevent any form of bullying, discrimination, misconduct, and harassment including sexual harassment, and to promote a respectful work environment. The Supplier shall keep an up to date record of its employees and Subcontractors who have attended and completed such training programs and provide such records to the Purchaser at its first written request. 14.9.3 The Supplier and its Subcontractors will comply with the Labour Management Procedures (LMP) and Environmental and Social Commitment Plan (ESCP). 14.9.4 The Supplier shall submit and implement a Code of Conduct applicable to Supplier Personnel, signed before commencement of work; 14.9.5 The Supplier will designate an Environmental, Health and Safety (EHS) Officer; and 14.9.6 The Supplier will develop and periodically submit an E&S Monitoring Checklist based on the ESMP and LMP. 14.9.7 The Supplier/ Contractor shall abide by the requirements of the client's Environmental & Social Management Plan and the Workers' Code of Conduct during transportation and installation of goods. 14.9.8 No site work shall commence before approval of the Site-Specific OHS Plan.
GCC 15.1	Total Contract Price for the Goods including 3 years O&M warranty and 3 years comprehensive warranty for complete system on final destination/ DDP base is PKR (_____). The prices charged for the Goods supplied and the Related Services performed “shall not,” be adjustable.

GCC 16.1	The method and conditions of payment to be made to the Supplier under this Contract shall be as follows: <u>Site-Wise Payment for Goods and Services supplied:</u> <table border="1" data-bbox="435 386 1382 873"> <thead> <tr> <th>Milestone</th><th>Payment</th></tr> </thead> <tbody> <tr> <td>Approval of drawings, execution plan and technical submittals</td><td>10%</td></tr> <tr> <td>Delivery of complete DG Sets and all major equipment at the respective sites, verified through inspection along with submission of documents specified under Shipping and other Documents</td><td>50%</td></tr> <tr> <td>Completion of installation, cabling, ATS/synchronization, fuel system, earthing and incidental works</td><td>20%</td></tr> <tr> <td>Successful FAT documentation, SAT, full-load testing, commissioning, training, issuance of Site Acceptance Certificate and final sign-up</td><td>20%</td></tr> <tr> <td></td><td></td></tr> </tbody> </table> (i) Payments shall be certified and processed site-wise based on the DDP value allocated to each site in the accepted Price Schedule. Completion or delay at one site shall not prevent payment for another site that has independently achieved the relevant milestone. (ii) The Supplier shall submit the relevant invoice together with all documents required under the Contract, including inspection certificates, delivery challans, warranty certificates (where applicable), serial number register and any other documents specified in the Contract. (iii) The Purchaser shall process payment only after successful inspection and issuance of the Acceptance Certificate. (iv) A sign-off by Purchaser regarding successful delivery, acceptance and subsequent installation, testing and commissioning (where/ if applicable) shall be a prerequisite before an invoice can be submitted by the Supplier. (v) Purchaser will make payment through cross cheque in PKR. (vi) Taxes will be deducted as per the applicable laws of Pakistan.	Milestone	Payment	Approval of drawings, execution plan and technical submittals	10%	Delivery of complete DG Sets and all major equipment at the respective sites, verified through inspection along with submission of documents specified under Shipping and other Documents	50%	Completion of installation, cabling, ATS/synchronization, fuel system, earthing and incidental works	20%	Successful FAT documentation, SAT, full-load testing, commissioning, training, issuance of Site Acceptance Certificate and final sign-up	20%		
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GCC 16.5	1%+KIBOR												
GCC 18.1	The amount of the Performance Security shall be: 5 % of the Contract(s) Price in the shape of an unconditional and irrevocable Bank Guarantee issued by any scheduled bank in Pakistan as per applicable template. The performance security should be valid for a period of sixty (60) days beyond												

	the 3-year OEM & comprehensive warranty for complete system. The performance security amount will be reduced to 2.5% of the contract(s) price for the comprehensive warranty period.
GCC 18.3	If required, the Performance Security shall be in the form of: <i>As above in SCC 18.1</i>
GCC 18.4	Discharge of the Performance Security shall take place: Within 60 days following successful completion of three (03) years comprehensive warranty period for complete system and completion of performance obligations by the Supplier under the Contract.
GCC 23.2	Where applicable, the packing, marking and documentation within and outside the packages shall be: <i>1. The Supplier shall provide such packing of the goods as is required to prevent damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and upon storage. Packing case size and weight shall take into consideration, where appropriate, the remoteness of the goods final destination and the absence of heavy handling facilities at all points in transit. In case of any damage to the materials due to in secure and/or improper packing, resulting on account of normal handling, the Supplier shall make good such damages free of charge to Purchaser.</i> <i>2. The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract in any subsequent instructions ordered by Purchaser. Each packaging shall be clearly and legibly marked in English with the name of the Supplier, the Consignee, Contract No., date and quantity of material/ items.</i>
GCC 24.1	The provision of insurance coverage is: Applicable.
GCC 25.1	Where applicable, responsibility for transportation of the Goods shall be as specified in the Incoterms. <i>1. Transportation of the goods to the place of final delivery/ destination as specified in the Contract shall be arranged and paid for by the Supplier, and the cost (including insurance and storage) thereof is included in the Contract price.</i> <i>2. Where the supplier is responsible for transporting goods to the final destination, the supplier shall provide Safe Driving Training to drivers of vehicles transporting project goods.</i> <i>3. Where the Supplier is required to affect delivery under any other terms, for example, by post or to another address in the country, the Supplier shall be required to meet all transport and storage expenses until final delivery without additional cost to Purchaser.</i>

GCC 25.2	Incidental services to be provided are: 1. 3 years O&M warranty and 3 years comprehensive warranty for complete system by the supplier/ contractor.
GCC 26.2	The inspections and tests applicable under this Contract shall be those specified in Section VII – Schedule of Requirements.
GCC 27.1	Liquidated damages shall be 0.5% of the value of the delayed site or delayed portion of the Goods and Related Services for each week or part thereof of delay, subject to a maximum of 10% of the Contract Price of the affected site or delayed portion. Where the delay affects completion of the entire Lot, the maximum may be applied against the Lot Contract Price. Delay attributable to the Purchaser, lack of site access or an approved variation shall not attract liquidated damages.
GCC 27.1	The maximum amount of liquidated damages shall be: 10% of the contract price.
GCC 28.3	The period of validity of the Warranty/ Support shall be 3 years O&M warranty and 3 years comprehensive warranty for complete system with effect from the date of completion of 100% delivery and installation accepted, acknowledged/confirmed by the Purchaser. The warranty period applicable to each site shall commence from the date of issuance of the respective Acceptance Certificate for the complete system installed at that site. The Supplier shall provide a comprehensive warranty for the complete supplied and installed system for a period of three (03) years from the date of issuance of the Site Acceptance Certificate for the respective Site. The comprehensive warranty shall cover all Goods, equipment, components, accessories, installation, integration and workmanship supplied under the Contract. In addition, the major OEM equipment, including the DG Set/engine, alternator, controller and ATS, as applicable, shall be supported by the respective manufacturer's/OEM's warranty for a minimum period of three (03) years. The Supplier shall remain the single point of responsibility for administration and fulfillment of all warranty obligations

GCC 28.5, GCC 28.6	Where applicable, the period for repair/ replacement/ resolution shall be: Response Time: within 24 hours Resolution Time: within 72 hours The response and resolution times: 24 X 7 X 365 during the warranty/ after-sales support period.
GCC 33.4	<i>Not Applicable.</i>

Attachment: Price Adjustment Formula: Not Applicable

If in accordance with GCC 15.1, prices shall be adjustable, the following method shall be used to calculate the price adjustment:

- 15.1 Prices payable to the Supplier, as stated in the Contract, shall be subject to adjustment during performance of the Contract to reflect changes in the cost of labor and material components in accordance with the formula:

$$P_1 = P_0 \left[a + \frac{bL_1}{L_0} + \frac{cM_1}{M_0} \right] - P_0$$

$$a+b+c = 1$$

in which:

- P_1 = adjustment amount payable to the Supplier.
- P_0 = Contract Price (base price).
- a = fixed element representing profits and overheads included in the Contract Price and generally in the range of five (5) to fifteen (15) percent.
- b = estimated percentage of labor component in the Contract Price.
- c = estimated percentage of material component in the Contract Price.
- L_0, L_1 = *labor indices applicable to the appropriate industry in the country of origin on the base date and date for adjustment, respectively.
- M_0, M_1 = *material indices for the major raw material on the base date and date for adjustment, respectively, in the country of origin.

The Bidder shall indicate the source of the indices, and the source of exchange rate (if applicable) and the base date indices in its Bid.

The coefficients a , b , and c as specified by the Purchaser are as follows:

a = *[insert value of coefficient]*

b = *[insert value of coefficient]*

c = *[insert value of coefficient]*

Base date = thirty (30) days prior to the deadline for submission of the Bids.

Date of adjustment = *[insert number of weeks]* weeks prior to date of shipment (representing the mid-point of the period of manufacture).

The above price adjustment formula shall be invoked by either party subject to the following further conditions:

- (a) No price adjustment shall be allowed beyond the original delivery dates. As a rule, no price adjustment shall be allowed for periods of delay for which the Supplier is

entirely responsible. The Purchaser will, however, be entitled to any decrease in the prices of the Goods and Services subject to adjustment.

- (b) If the currency in which the Contract Price P_0 is expressed is different from the currency of origin of the labor and material indices, a correction factor will be applied to avoid incorrect adjustments of the Contract Price. The correction factor shall be: Z_0 / Z_1 , where,

Z_0 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price P_0 on the Base date, and

Z_1 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price P_0 on the Date of Adjustment.

- (c) No price adjustment shall be payable on the portion of the Contract Price paid to the Supplier as advance payment.

Section X - Contract Forms

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Notification of Intention to Award

[This Notification of Intention to Award shall be sent to each Bidder that submitted a Bid.]

[Send this Notification to the Bidder's Authorized Representative named in the Bidder Information Form]

For the attention of Bidder's Authorized Representative

Name: *[insert Authorized Representative's name]*

Address: *[insert Authorized Representative's Address]*

Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]*

Email Address: *[insert Authorized Representative's email address]*

[IMPORTANT: insert the date that this Notification is transmitted to Bidders. The Notification must be sent to all Bidders simultaneously. This means on the same date and as close to the same time as possible.]

DATE OF TRANSMISSION: This Notification is sent by: *[email/fax]* on *[date]* (local time)

Notification of Intention to Award

Purchaser: *[insert the name of the Purchaser]*

Project: *[insert name of project]*

Contract title: *[insert the name of the contract]*

Contract No.:

Lot No.:

Country: *[insert country where RFB is issued]*

Loan No. /Credit No. / Grant No.: *[insert reference number for loan/credit/grant]*

RFB No: *[insert RFB reference number from Procurement Plan]*

This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The transmission of this Notification begins the Standstill Period. During the Standstill Period you may:

- a) request a debriefing in relation to the evaluation of your Bid, and/or
- b) submit a Procurement-related Complaint in relation to the decision to award the contract.

1. The successful Bidder

Name:	<i>[insert name of successful Bidder]</i>
Address:	<i>[insert address of the successful Bidder]</i>
Contract price:	<i>[insert contract price of the successful Bid]</i>

2. Other Bidders *[INSTRUCTIONS: insert names of all Bidders that submitted a Bid. If the Bid's price was evaluated include the evaluated price as well as the Bid price as read out.]*

Name of Bidder	Bid price	Evaluated Bid price (if applicable)
[insert name]	[insert Bid price]	[insert evaluated price]
[insert name]	[insert Bid price]	[insert evaluated price]
[insert name]	[insert Bid price]	[insert evaluated price]
[insert name]	[insert Bid price]	[insert evaluated price]
[insert name]	[insert Bid price]	[insert evaluated price]

3. Reason/s why your Bid was unsuccessful

[INSTRUCTIONS: State the reason/s why this Bidder's Bid was unsuccessful. Do NOT include: (a) a point by point comparison with another Bidder's Bid or (b) information that is marked confidential by the Bidder in its Bid.]

4. How to request a debriefing

DEADLINE: The deadline to request a debriefing expires at midnight on [insert date] (local time).

You may request a debriefing in relation to the results of the evaluation of your Bid. If you decide to request a debriefing your written request must be made within three (3) Business Days of receipt of this Notification of Intention to Award.

Provide the contract name, reference number, name of the Bidder, contact details; and address the request for debriefing as follows:

Attention: [insert full name of person, if applicable]

Title/position: [insert title/position]

Agency: [insert name of Purchaser]

Email address: [insert email address]

Fax number: [insert fax number] **delete if not used**

If your request for a debriefing is received within the 3 Business Days deadline, we will provide the debriefing within five (5) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (5) Business Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end.

The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.

If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of the Contract Award Notice.

5. How to make a complaint

Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, *[insert date]* (local time).

Provide the contract name, reference number, name of the Bidder, contact details; and address the Procurement-related Complaint as follows:

Attention: *[insert full name of person, if applicable]*

Title/position: *[insert title/position]*

Agency: *[insert name of Purchaser]*

Email address: *[insert email address]*

Fax number: *[insert fax number]* ***delete if not used***

At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.

Further information:

For more information see the [Procurement Regulations for IPF Borrowers \(Procurement Regulations\)](#) (Annex III). You should read these provisions before preparing and submitting your complaint. In addition, the World Bank's Guidance "[How to make a Procurement-related Complaint](#)" provides a useful explanation of the process, as well as a sample letter of complaint.

In summary, there are four essential requirements:

1. You must be an 'interested party'. In this case, that means a Bidder who submitted a Bid in this bidding process, and is the recipient of a Notification of Intention to Award.
2. The complaint can only challenge the decision to award the contract.
3. You must submit the complaint within the period stated above.
4. You must include, in your complaint, all of the information required by the Procurement Regulations (as described in Annex III).

6. Standstill Period

DEADLINE: The Standstill Period is due to end at midnight on *[insert date]* (local time).

The Standstill Period lasts ten (10) Business Days after the date of transmission of this Notification of Intention to Award.

The Standstill Period may be extended as stated in Section 4 above.

If you have any questions regarding this Notification please do not hesitate to contact us.

On behalf of the Purchaser:

Signature: _____

Name: _____

Title/position: _____

Telephone: _____

Email: _____

Beneficial Ownership Disclosure Form

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE FORM

This Beneficial Ownership Disclosure Form (“Form”) is to be completed by the successful Bidder. In case of joint venture, the Bidder must submit a separate Form for each member. The beneficial ownership information to be submitted in this Form shall be current as of the date of its submission.

For the purposes of this Form, a Beneficial Owner of a Bidder is any natural person who ultimately owns or controls the Bidder by meeting one or more of the following conditions:

- *directly or indirectly holding 25% or more of the shares*
- *directly or indirectly holding 25% or more of the voting rights*
- *directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder*

RFB No.: [insert number of RFB process]

Request for Bid No.: [insert identification]

To: [insert complete name of Purchaser]

In response to your request in the Letter of Acceptance dated [insert date of letter of Acceptance] to furnish additional information on beneficial ownership: [select one option as applicable and delete the options that are not applicable]

(i) we hereby provide the following beneficial ownership information.

Details of beneficial ownership

Identity of Beneficial Owner	Directly or indirectly holding 25% or more of the shares (Yes / No)	Directly or indirectly holding 25 % or more of the Voting Rights (Yes / No)	Directly or indirectly having the right to appoint a majority of the board of the directors or an equivalent governing body of the Bidder (Yes / No)
[include full name (last, middle, first), nationality, country of residence]			

OR

(ii) *We declare that there is no Beneficial Owner meeting one or more of the following conditions:*

- directly or indirectly holding 25% or more of the shares
- directly or indirectly holding 25% or more of the voting rights
- directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder

OR

(iii) *We declare that we are unable to identify any Beneficial Owner meeting one or more of the following conditions. [If this option is selected, the Bidder shall provide explanation on why it is unable to identify any Beneficial Owner]*

- directly or indirectly holding 25% or more of the shares
- directly or indirectly holding 25% or more of the voting rights
- directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder]

Name of the Bidder: *[insert complete name of the Bidder]

Name of the person duly authorized to sign the Bid on behalf of the Bidder: **[insert complete name of person duly authorized to sign the Bid]

Title of the person signing the Bid: [insert complete title of the person signing the Bid]

Signature of the person named above: [insert signature of person whose name and capacity are shown above]

Date signed [insert date of signing] **day of** [insert month], [insert year]

* In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder. In the event that the Bidder is a joint venture, each reference to “Bidder” in the Beneficial Ownership Disclosure Form (including this Introduction thereto) shall be read to refer to the joint venture member.

** Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

Letter of Acceptance

[use letterhead paper of the Purchaser]

[date]

To: *[name and address of the Supplier]*

Subject: **Notification of Award Contract No.**

This is to notify you that your Bid dated *[insert date]* for execution of the *[insert name of the contract and identification number, as given in the SCC]* for the Accepted Contract Amount of *[insert amount in numbers and words and name of currency]*, as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish (i) the Performance Security within 28 days in accordance with the Conditions of Contract, using for that purpose one of the Performance Security Forms and (ii) the additional information on beneficial ownership in accordance with ITB 45.1 within eight (8) Business days using the Beneficial Ownership Disclosure Form, included in Section X, - Contract Forms, of the Bidding Document.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract Agreement

Contract Agreement

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS AGREEMENT made

the *[insert: **number**]* day of *[insert: **month**]*, *[insert: **year**]*.

BETWEEN

- (1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of of the Government of {insert name of Country of Purchaser}, or corporation incorporated under the laws of {insert name of Country of Purchaser}]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called “the Purchaser”), of the one part, and
- (2) *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called “the Supplier”), of the other part:

WHEREAS the Purchaser invited Bids for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Services

The Purchaser and the Supplier agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other contract documents.
 - (a) the Letter of Acceptance
 - (b) the Letter of Bid
 - (c) the Addenda Nos. _____ (if any)
 - (d) Special Conditions of Contract
 - (e) General Conditions of Contract
 - (f) the Specification (including Schedule of Requirements and Technical Specifications)
 - (g) the completed Schedules (including Price Schedules)

- (h) any other document listed in GCC as forming part of the Contract
 - (i) Any other document listed in GCC/SCC as forming part of the Contract
3. In consideration of the payments to be made by the Purchaser to the Supplier as specified in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*
in the capacity of *[insert title or other appropriate designation]*
In the presence of *[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*
in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

Performance Security

Option 1: (Bank Guarantee)

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[insert name and Address of Purchaser]*

Date: *_ [Insert date of issue]*

PERFORMANCE GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *_ [insert name of Supplier, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the supply of *_ [insert name of contract and brief description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (_____) *[insert amount in words]*,¹ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the Day of, 2...², and any demand for payment under it must be received by us at this office indicated above on or before that date.

¹ The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, and denominated either in the currency (ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

² Insert the date twenty-eight days after the expected completion date as described in GC Clause 18.4. The Purchaser should note that in the event of an extension of this date for completion of the Contract, the Purchaser would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Purchaser might consider adding the following text to the form, at the end of the penultimate

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

paragraph: “The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary’s written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”

Option 2: Performance Bond (Not Applicable)

By this Bond *[insert name of Principal]* as Principal (hereinafter called “the Supplier”) and *[insert name of Surety]* as Surety (hereinafter called “the Surety”), are held and firmly bound unto *[insert name of Purchaser]* as Obligee (hereinafter called “the Supplier”) in the amount of *[insert amount in words and figures]*, for the payment of which sum well and truly to be made in the types and proportions of currencies in which the Contract Price is payable, the Supplier and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Supplier has entered into a written Agreement with the Purchaser dated the _____ day of _____, 20 ____, for *[name of contract and brief description of Goods and related Services]* in accordance with the documents, plans, specifications, and amendments thereto, which to the extent herein provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

NOW, THEREFORE, the Condition of this Obligation is such that, if the Supplier shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise, it shall remain in full force and effect. Whenever the Supplier shall be, and declared by the Purchaser to be, in default under the Contract, the Purchaser having performed the Purchaser’s obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

- (1) complete the Contract in accordance with its terms and conditions; or
- (2) obtain a Bid or Bids from qualified Bidders for submission to the Purchaser for completing the Contract in accordance with its terms and conditions, and upon determination by the Purchaser and the Surety of the lowest responsive Bidder, arrange for a Contract between such Bidder and Purchaser and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term “Balance of the Contract Price,” as used in this paragraph, shall mean the total amount payable by Purchaser to Supplier under the Contract, less the amount properly paid by Purchaser to the Supplier; or
- (3) pay the Purchaser the amount required by Purchaser to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

Any suit under this Bond must be instituted not later than twenty-eight (28) days following the date of completion of the Supplier's performance of its obligations under the Contract, including any warranty obligations.

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Purchaser named herein or the heirs, executors, administrators, successors, and assigns of the Purchaser.

In testimony whereof, the Supplier has hereunto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly attested by the signature of his legal representative, this _____ day of _____ 20_____
_____.

SIGNED ON _____ on behalf of _____

By _____ in the capacity of _____

In the presence of _____

SIGNED ON _____ on behalf of _____

By _____ in the capacity of _____

In the presence of _____

Advance Payment Security (Not Applicable)

Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Insert name and Address of Purchaser]*

Date: *[Insert date of issue]*

ADVANCE PAYMENT GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *[insert name of Supplier, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called “the Applicant”) has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the execution of *[insert name of contract and brief description of Goods and related Services]* (hereinafter called “the Contract”).

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum *[insert amount in figures]* () *[insert amount in words]* is to be made against an advance payment guarantee.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (____) *[insert amount in words]*¹ upon receipt by us of the Beneficiary’s complying demand supported by the Beneficiary’s statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- (d) has used the advance payment for purposes other than toward delivery of Goods;
or
- (e) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

¹ The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Purchaser.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Applicant on its account number *[insert number]* at *[insert name and address of Applicant's bank]*.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Applicant as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, has been certified for payment, or on the *[insert day]* day of *[insert month]*, 2 *[insert year]*, whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No.758, except that the supporting statement under Article 15(a) is hereby excluded.

.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

ANNEX-I

The locations of the above sites are enclosed at Annex – I.

S N o	Name of Station	Road on the site	GPS coordinates of the site
1	Kalabagh bridge	Kalabagh-Nathiagali road	https://maps.app.goo.gl/TiAdfAx3rQ9N7KPA9
2	Jinnah Barrage	Mianwali-Kalabagh road	https://maps.app.goo.gl/8q34ubY3LZu34zsXA
3	DIK-hakla motorway M-14(CPEC)	M-14 Hakla D I Khan motorway	https://maps.app.goo.gl/DXW5TPXFUwdQEVB9
4	Chashma barrage	D I Khan-Mianwali road	https://maps.app.goo.gl/HNQryUh72VNnf_dPU9
5	Guddu Barrage	N-55 Indus highway	https://maps.app.goo.gl/uXDQphFjmKpyaw2N8
6	Kotri bridge	M-9 Motorway	https://maps.app.goo.gl/TVykyA2Tu5qUcwW2A
7	Sehwan(Ar al Bridge)	N-55 highway	https://maps.app.goo.gl/kutbiirZpi4caFtn8
8	Sehwan (Bhoon syedabad-MES)	Bhan syedabad, N-55 highway	https://maps.app.goo.gl/7vQzuNAjK5SrNP9C7
9	HUB (Mygarhi or chleghezi cut)	M-10 Karachi Northern bypass road	https://maps.app.goo.gl/5LKivtPJHD11G2qg8
10	Khurkera	N-25 Highway	https://maps.app.goo.gl/EU9W8PflX2FaUyy98