

NTDC

NATIONAL TRANSMISSION AND DISPATCH COMPANY

TENDER NO. ADB – 70 – 2015

**PROCUREMENT OF 220 KV AUTO-TRANSFORMERS AND
GRID STATION EQUIPMENT/MATERIAL UNDER ADB LOAN
NO.3203 FOR POWER TRANSMISSION ENHANCEMENT
INVESTMENT PROGRAM TRANCHE-IV**

VOLUME-I

(TENDER CONDITIONS)

Prepared By:

DESIGN DEPARTMENT, NTDC
143 - WAPDA HOUSE, LAHORE, PAKISTAN
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Preface

This Bidding Document for Procurement of Goods has been prepared by National transmission and Despatch Company and is based on the Standard Bidding Document for the Procurement of Goods issued by the Asian Development Bank, dated September 2010.

This document reflects the structure and the provisions of the Master Procurement Document for the Procurement of Goods, except where specific considerations within the Asian Development Bank have required a change.

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Section I. Instructions to Bidders

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A. General

- 1. Scope of Bid**

 - 1.1 The Purchaser indicated in the **BDS** issues this Bidding Document for the supply of Goods and Related Services incidental thereto as specified in Section VI, Schedule of Supply. The name, identification, and number of lots of the International Competitive Bidding (ICB) are provided in the **BDS**.
 - 1.2 Throughout this Bidding Document :

 - (a) the term “in writing” means communicated in written form with proof of receipt;
 - (b) if the context so requires, singular means plural and vice versa; and
 - (c) “day” means calendar day.
- 2. Source of Funds**

 - 2.1 The Borrower or Recipient (hereinafter called “Borrower”) indicated in the **BDS** has applied for or received financing (hereinafter called “funds”) from the Asian Development Bank (hereinafter called “the ADB”) toward the cost of 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 Payments by the ADB will be made only at the request of the Borrower and upon approval by the ADB in accordance with the terms and conditions of the financing agreement between the Borrower and the ADB (hereinafter called the Loan Agreement), and will be subject in all respects to the terms and conditions of that Loan Agreement. No party other than the Borrower shall derive any rights from the Loan Agreement or have any claim to the funds.
- 3. Corrupt Practices**

 - 3.1 ADB’s Anticorruption Policy requires borrowers (including beneficiaries of ADB-financed activity), as well as bidders, suppliers, and contractors under ADB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the ADB:

 - (a) defines, for the purposes of this provision, the terms set forth below as follows:

 - (i) “corrupt practice” means the offering, giving,

- receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
- (ii) “fraudulent practice” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) “coercive practice” means 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;
 - (iv) “collusive practice” means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party;
- (b) will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract; and
 - (c) will cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the borrower or of a beneficiary of ADB-financing engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the borrower having taken timely and appropriate action satisfactory to ADB to remedy the situation; and
 - (d) will sanction a firm or an individual, at any time, in accordance with ADB’s Anticorruption Policy and Integrity Principles and Guidelines (both as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate¹ in ADB-financed or ADB-administered activities or to benefit from an ADB-financed or ADB-administered contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive or other prohibited practices.

¹ Whether as contractor, nominated subcontractor, consultant, manufacturer or supplier, or service provider or any other capacity (different names are used depending on the particular bidding document). A nominated subcontractor is one which either has been (i) included by the bidder in its prequalification application or bid because it brings specific and critical experience and know-how that are accounted for in the evaluation of the bidder’s prequalification application or the bid; or (ii) appointed by the purchaser.

- 3.2 Furthermore, Bidders shall be aware of the provision stated in Sub-Clause 3.2 and Sub-Clause 35.1 (c) of the General Conditions of Contract.
- 4. Eligible Bidders**
- 4.1 A Bidder may be a natural person, private entity, government-owned entity (subject to ITB 4.5) or any combination of them with a formal intent to enter into an agreement or under an existing agreement in the form of a Joint Venture (JV). In the case of a JV:
- (a) all parties to the JV shall be jointly and severally liable; and
 - (b) a JV shall nominate a Representative who shall have the authority to conduct all businesses for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.
- 4.2 A Bidder, and all parties constituting the Bidder, shall have the nationality of an eligible country, in accordance with Section V, Eligible Countries. A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, or incorporated, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.
- 4.3 ADB considers a conflict of interest to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations, and that such conflict of interest may contribute to or constitute a prohibited practice under ADB's Anticorruption Policy. In pursuance of ADB's Anticorruption Policy's requirement that Borrowers (including beneficiaries of ADB-financed activity), as well as bidders, suppliers, and contractors under ADB-financed contracts, observe the highest standard of ethics. ADB will take appropriate actions, which include not financing of the contract, if it determines that a conflict of interest has flawed the integrity of any procurement process. Consequently all Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if, including but not limited to:

- (a) have controlling shareholders in common; or
- (b) receive or have received any direct or indirect subsidy from any of them; or
- (c) have the same legal representative for purposes of this Bid; or
- (d) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process; or
- (e) a Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which it is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one bid; or
- (f) a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods and services that are the subject of the bid.

4.4 A firm shall not be eligible to participate in any procurement activities under an ADB-financed or ADB-supported project while under sanction by ADB pursuant to its Anticorruption Policy (see ITB 3), whether such sanction was directly imposed by ADB, or imposed by ADB pursuant to the Agreement for Mutual Enforcement of Debarment Decisions. A bid from a sanctioned or cross-debarred firm will be rejected.

4.5 Government-owned enterprises in the Purchaser's country shall be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under the principles of commercial law, and (iii) are not dependent agencies of the Purchaser.

4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

4.7 Firms shall be excluded if 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, the Borrower's country prohibits any import of goods or contracting of works or services from that country or any payments to persons or entities in that country.

5. Eligible Goods 5.1 All goods and related services to be supplied under the

and Related Services

Contract and financed by the ADB, shall have as their country of origin an eligible country of the ADB (see Section V, Eligible Countries).

- 5.2 For purposes of this Clause, the term “goods” includes commodities, raw material, machinery, equipment, and industrial plants; and “related services” includes services such as insurance, transportation, installation, commissioning, training, and initial maintenance.
- 5.3 The term “country of 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 imported components.
- 5.4 The nationality of the firm that produces, assembles, distributes, or sells the goods shall not determine their origin.

B. Contents of Bidding Document**6. Sections of the 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. Bid Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria
- Section IV. Bidding Forms
- Section V. Eligible Countries

PART 2 Supply Requirements

- Section VI. Schedule of Supply

PART 3 Conditions of Contract and Contract Forms

- Section VII. General Conditions of Contract (GCC)
- Section VIII. Special Conditions of Contract (SCC)
- Section IX. Contract Forms

- 6.2 The Invitation for Bids issued by the Purchaser is not part of the Bidding Document.
- 6.3 The Purchaser is not responsible for the completeness of the Bidding Document and its addenda, if they were not obtained directly from the Purchaser.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or documentation required by the

Bidding Document, may result in the rejection of the Bid.

- 7. Clarification of Bidding Document** 7.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Purchaser in writing at the Purchaser's address indicated in the **BDS**. The Purchaser will respond in writing to any request for clarification, provided that such request is received no later than twenty-one (21) days prior to the deadline for submission of Bids. The Purchaser shall forward copies of its response to all Bidders who have acquired the Bidding Document directly from it, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Document as a result of a clarification, it shall do so following the procedure under ITB 8 and 24.2.
- 8. Amendment of Bidding Document** 8.1 At any time prior to the deadline for submission of the 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 directly from the Purchaser.
- 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 the Bids, pursuant to ITB 24.2

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 in 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) Bid Submission Sheet and the applicable Price Schedules, in accordance with ITB Clauses 12, 14, and 15;
 - (b) Bid Security or Bid-Securing Declaration, in accordance

- with ITB 21, if required;
- (c) alternative bids, if permissible, in accordance with ITB 13;
 - (d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 22;
 - (e) documentary evidence in accordance with ITB 16 establishing the Bidder's eligibility to bid;
 - (f) documentary evidence in accordance with ITB 17, that the Goods and Related Services to be supplied by the Bidder are of eligible origin;
 - (g) documentary evidence in accordance with ITB Clauses 18 and 31, that the Goods and Related Services conform to the Bidding Document;
 - (h) documentary evidence in accordance with ITB 19 establishing the Bidder's qualifications to perform the contract if its Bid is accepted; and
 - (i) any other document required in the **BDS**.
- 12. Bid Submission Sheet and Price Schedules**
- 12.1 The Bidder shall submit the Bid Submission Sheet using the form furnished in Section IV, Bidding Forms. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
- 12.2 The Bidder shall submit the Price Schedules for Goods and Related Services, according to their origin as appropriate, using the forms furnished in Section IV, Bidding Forms.
- 13. Alternative Bids**
- 13.1 Unless otherwise indicated 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 Bid Submission Sheet and in the Price Schedules shall conform to the requirements specified below.
- 14.2 All items in the Schedule of Supply must be listed and priced separately in the Price Schedules. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Items not listed in the Price Schedule shall be assumed not to be included in the Bid, and provided that the Bid is substantially responsive, the corresponding adjustment shall be applied in accordance with ITB 32.3
- 14.3 The price to be quoted in the Bid Submission Sheet shall be the

total price of the Bid excluding any discounts offered.

- 14.4 The Bidder shall quote any unconditional discounts and the methodology for their application in the Bid Submission Sheet.
- 14.5 The terms EXW, CIF, 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, at the date of the Invitation for Bids or as specified in the **BDS**.
- 14.6 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:
- (a) For Goods offered from within the Purchaser's country :
 - (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 goods quoted ex works or ex factory, or on the previously imported goods of foreign origin quoted ex warehouse, ex showroom, or off-the-shelf;
 - (ii) sales tax and all other taxes applicable in the Purchaser's country and payable on the Goods if the Contract is awarded to the Bidder; and
 - (iii) the total price for the item.
 - (b) For Goods offered from outside the Purchaser's country :
 - (i) the price of the goods quoted CIF(named port of destination), or CIP (border point), or CIP (named place of destination), in the Purchaser's country, as specified in the **BDS**;
 - (ii) the price of the goods quoted FOB port of shipment (or FCA, as the case may be), if specified in the **BDS**;
 - (iii) the total price for the item.
 - (c) For Related Services whenever such Related Services are

specified in the Schedule of Requirements:

- (i) the local currency cost component of each item comprising the Related Services; and
- (ii) the foreign currency cost component of each item comprising the Related Services,

inclusive of all custom duties, sales and other similar taxes applicable in the Purchaser's country, payable on the Related Services, if the Contract is awarded to the Bidder

14.7 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 31. 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.

14.8 If so indicated pursuant to ITB 1.1, Bids are being invited for individual contracts (lots) or for any combination of contracts (packages). Unless otherwise indicated 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 any price reduction for the award of more than one Contract shall specify the applicable price reductions in accordance with ITB 14.4, provided the bids for all lots are submitted and opened at the same time.

15. Currencies of Bid

15.1 Bid prices shall be quoted in the following currencies:

- (a) Bidders may express their bid price in any fully convertible currency. If a 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 currencies in addition to the currency of the Purchaser's country.
- (b) If some of the expenditures for the Related Services are to be incurred in the borrowing country, such expenditures should be expressed in the Bid and will be payable in the Purchaser's currency.

16. Documents

16.1 To establish their eligibility in accordance with ITB 4, Bidders

- Establishing the Eligibility of the Bidder** shall:
- (a) complete the eligibility declarations in the Bid Submission Sheet, included in Section IV, Bidding Forms; and
 - (b) if the Bidder is an existing or intended JV in accordance with ITB 4.1, submit a copy of the JV Agreement, or a letter of intent to enter into such an Agreement. The respective document shall be signed by all legally authorized signatories of all the parties to the existing or intended JV, as appropriate.
- 17. Documents Establishing the Eligibility of the Goods and Related Services**
- 17.1 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.
- 18. Documents Establishing the Conformity of the Goods and Related Services to the Bidding Document**
- 18.1 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 and Related Services conform to the requirements specified in Section VI, Supply Requirements.
- 18.2 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 those requirements, and if applicable, a statement of deviations and exceptions to the provisions of Section VI, Schedule of Supply.
- 18.3 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Section VI, Schedule of Supply, 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 Section VI, Schedule of Supply.
- 19. Documents Establishing the Qualifications**
- 19.1 The documentary evidence of the Bidder's qualifications to perform the contract, if its bid is accepted, shall establish to the Purchaser's satisfaction that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and

- of the Bidder** Qualification Criteria.
- 19.2 If so 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 Purchaser's country.
- 19.3 If so required in the **BDS**, a Bidder that does not conduct business within the Purchaser's Country shall submit evidence that it will be represented by an Agent in the country 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.
- 20. Period of Validity of Bids**
- 20.1 Bids shall remain valid for the period specified in the **BDS** after the bid submission deadline date prescribed by the Purchaser. A Bid valid for a shorter period shall be rejected by the Purchaser as nonresponsive.
- 20.2 In exceptional circumstances, prior to the expiration of the bid validity period, 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 21, it shall also be extended for a corresponding period. 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.
- 21. Bid Security**
- 21.1 Unless otherwise specified in the **BDS**, the Bidder shall furnish as part of its bid, in original form, either a Bid Securing Declaration or a Bid Security as specified in the **BDS**. In the case of a Bid Security, the amount shall be as specified in the **BDS**.
- 21.2 If a Bid-Securing Declaration is specified pursuant to ITB 21.1 the Bidder shall use the form included in Section IV, Bidding Forms.
- 21.3 If a bid security is specified pursuant to ITB 21.1, the bid security shall be a demand guarantee in any of the following forms at the Bidder's option:
- (a) a bank guarantee;
 - (b) an irrevocable letter of credit; or

- (c) a cashier's or certified check;

all from a reputable bank from an eligible country. In case of a bank guarantee, the Bid Security shall be submitted using the Bid Security Form included in Section IV, Bidding Forms, or another form acceptable to the Purchaser. The form must include the complete name of the Bidder. The Bid Security shall be valid for twenty-eight days (28) beyond the end of the validity period of the bid. This shall also apply if the period for bid validity is extended.

- 21.4 If a Bid Security is required in accordance with ITB 21.2, any Bid not accompanied by a substantially compliant Bid Security in accordance with ITB 21.3, shall be rejected by the Purchaser as non-responsive.
- 21.5 If a Bid Security is specified pursuant to ITB 21.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder furnishing of the signed Contract Agreement and the Performance Security pursuant to ITB 43 and ITB 44.
- 21.6 If a Bid Security is specified pursuant to ITB 21.1, the Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract Agreement and furnished the required Performance Security.
- 21.7 The Bid Security may be forfeited or the Bid-Securing Declaration executed:
 - (a) if a Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Submission Sheet, except as provided in ITB 20.2; or
 - (b) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB 43;
 - (ii) furnish a Performance Security in accordance with ITB 44; or
 - (iii) accept the arithmetical correction in accordance with ITB 33.
- 21.8 The Bid Security or the 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 at the time of bidding, the Bid Security or the Bid-Securing Declaration shall be in the names of all future partners as named in the letter of intent mentioned in ITB 16.1.

22. Format and Signing of Bid

- 22.1 The Bidder shall prepare one original of the documents comprising the Bid as described in ITB 11 and clearly mark it "ORIGINAL." 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.
- 22.2 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.
- 22.3 Any amendments such as interlineation, 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**23. Sealing and Marking of Bids**

- 23.1 Bidders may always submit their bids by mail or by hand. When so specified in the **BDS**, Bidders have the option of submitting their bids electronically. Bidders submitting bids electronically shall follow the electronic bid submission procedures specified in the **BDS**.
- 23.2 Bidders submitting bids by mail or by hand shall enclose the original and each copy of the Bid, including alternative bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL", "ALTERNATIVE" and "COPY." These envelopes containing the original and the copies shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB 23.3 and 23.4.
- 23.3 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 24.1;
 - (c) bear the specific identification of this bidding process pursuant to ITB 1.1 and any additional identification marks as specified in the **BDS**; and
 - (d) bear a warning not to open before the time and date for bid opening, in accordance with ITB 27.1.
- 23.4 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.

- 24. Deadline for Submission of Bids**
- 24.1 Bids must be received by the Purchaser at the address and no later than the date and time indicated in the **BDS**.
- 24.2 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.
- 25. Late Bids**
- 25.1 The Purchaser shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 24. Any Bid received by the Purchaser after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.
- 26. Withdrawal, Substitution, and Modification of Bids**
- 26.1 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 in accordance with ITB 22.2 (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) submitted in accordance with ITB Clauses 22 and 23 (except that Withdrawal Notices do not require copies), and in addition, the respective envelopes shall be clearly marked "Withdrawal," "Substitution," "Modification"; and
 - (b) received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB 24.
- 26.2 Bids requested to be withdrawn in accordance with ITB 26.1 shall be returned unopened to the Bidders.
- 26.3 No Bid shall 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 Bid Submission Sheet or any extension thereof.
- 27. Bid Opening**
- 27.1 The Purchaser shall conduct the bid opening in public at the address, date and time specified in the **BDS**. Any specific electronic bid opening procedures required if electronic bidding is permitted in accordance with ITB 23.1, shall be as

specified in the **BDS**.

- 27.2 First, envelopes marked "WITHDRAWAL" shall be opened, read out, and recorded, and the envelope containing the corresponding Bid shall not be opened, but returned to the Bidder. If the withdrawal notice is not accompanied by a copy of the valid authorization pursuant to ITB 22.2, the withdrawal shall not be permitted and the corresponding Bid will be opened. Next, envelopes marked "SUBSTITUTION" shall be opened, read out, recorded, and exchanged for the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening. Envelopes marked "MODIFICATION" shall be opened, read out, and recorded with the corresponding Bid. No Bid shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at bid opening. Only envelopes that are opened, read out, and recorded at bid opening shall be considered further.
- 27.3 All other envelopes shall be opened one at a time, and the following read out and recorded: the name of the Bidder and whether there is a modification; the Bid Prices (per lot if applicable), any discounts and alternative offers; the presence of a Bid Security, if required; and any other details as the Purchaser may consider appropriate. Only discounts and alternative offers read out and recorded at bid opening shall be considered for evaluation. No Bid shall be rejected at bid opening except for late bids, in accordance with ITB 25.1.
- 27.4 The Purchaser shall prepare a record of the bid opening that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification; the Bid Price, per lot if applicable, any discounts and alternative offers if they were permitted; and the presence or absence of a Bid Security or Bid-Securing Declaration, if one was required. 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 who submitted bids in time, and posted on line if electronic bidding was permitted. The Bidders' representatives who are present shall also be requested to sign the attendance sheet.

E. Evaluation and Comparison of Bids

- 28. Confidentiality**
- 28.1 Information relating to the examination, evaluation, comparison, and postqualification of Bids, and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until publication of the Contract award; thereafter, information will be disclosed in accordance with ITB 42.3.
- 28.2 Any attempt by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and postqualification of the Bids or Contract award decisions may result in the rejection of its Bid.
- 28.3 Notwithstanding ITB 28.2, 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.
- 29. Clarification of Bids**
- 29.1 To assist in the examination, evaluation, comparison and post-qualification of the Bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder with regard 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 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 33.
- 30. Deviations, Reservations, and Omissions**
- 30.1 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.
- 31. Determination of Responsiveness**
- 31.1 The Purchaser's determination of the responsiveness of a Bid is to be based on the contents of the Bid itself, as defined in ITB11.
- 31.2 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 Section VI, Schedule of Supply; or
 - (ii) limits in any substantial way, inconsistent with the Bidding Document, the Purchaser's rights or the Bidder's obligations under the proposed Contract; or
- (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive bids.

31.3 The Purchaser shall examine the technical aspects of the bid in particular, to confirm that all requirements of Section VI, Schedule of Supply have been met without any material deviation or reservation.

**32. Nonmaterial
Nonconformi-
ties**

32.1 Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformities in the bid that do not constitute a material deviation, reservation or omission.

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

32.3 Provided that a Bid is substantially responsive, the Purchaser shall rectify nonmaterial nonconformities or omissions. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or non-conforming item or component. The adjustment shall be made using the method indicated in Section III, Evaluation and Qualification Criteria.

**33. Correction of
Arithmetical
Errors**

33.1 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 total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price 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 total price 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.

33.2 If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be rejected, and its bid security shall be forfeited, or its bid securing declaration shall be executed.

34. Conversion to Single Currency

34.1 For evaluation and comparison purposes, the currency(ies) of the bid shall be converted into a single currency as specified in the **BDS**.

35. Margin of Preference

35.1 Unless otherwise specified in the **BDS**, no margin of preference shall apply.

36. Evaluation of Bids

36.1 The Purchaser shall evaluate each Bid that has been determined, up to this stage of the evaluation, to be substantially responsive.

36.2 To evaluate a Bid, the Purchaser shall only use all the criteria and methodologies defined in this Clause and in Section III, Evaluation and Qualification Criteria. No other criteria or methodology shall be permitted.

36.3 To evaluate a Bid, the Purchaser shall consider the following:

- (a) the bid price as quoted in accordance with ITB 14;
- (b) price adjustment for correction of arithmetic errors in accordance with ITB 33.1;
- (c) price adjustment due to discounts offered in accordance with ITB 14.4; and
- (d) price adjustment due to application of the evaluation criteria specified in Section III, Evaluation and Qualification Criteria. These criteria may include factors related to the characteristics, performance, and terms

and conditions of purchase of the Goods and Related Services which shall be expressed to the extent practicable in monetary terms to facilitate comparison of bids unless otherwise specified in Section III.

- 36.4 The Purchaser's evaluation of a bid will exclude and not take into account:
- (a) in the case of Goods offered from within the Purchaser's country, all sales tax and all other taxes, applicable in the Purchaser's country and payable on the Goods if the Contract is awarded to the Bidder;
 - (b) in the case of Goods offered from outside the Purchaser's country, all customs duties, sales tax, and other taxes, applicable in the Purchaser's country and payable on the Goods if the Contract is awarded to the Bidder; and
 - (c) any allowance for price adjustment during the period of performance of the Contract, if provided in the Bid.
- 37. Comparison of Bids** 37.1 The Purchaser shall compare all substantially responsive bids to determine the lowest-evaluated bid, in accordance with ITB 36.
- 38. Post-qualification of the Bidder** 38.1 The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive Bid is qualified to perform the Contract satisfactorily.
- 38.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 19.
- 38.3 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 next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.
- 39. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids** 39.1 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 the Bidders.

F. Award of Contract

- 40. Award Criteria** 40.1 The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated Bid and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
- 41. Purchaser's Right to Vary Quantities at Time of Award** 41.1 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 VI, Schedule of Supply, provided this does not exceed the percentages indicated in the **BDS**, and without any change in the unit prices or other terms and conditions of the Bid and the Bidding Document.
- 42. Notification of Award** 42.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted.
- 42.2 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.
- 42.3 The Purchaser will publish in an English language newspaper or well-known freely accessible website the results identifying the bid and lot numbers and the following information: (i) name of each Bidder who submitted a Bid; (ii) bid prices as read out at bid opening; (iii) name and evaluated prices of each Bid that was evaluated; (iv) name of bidders whose bids were rejected and the reasons for their rejection; and (v) name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded. After publication of the award, unsuccessful bidders may request in writing to the Purchaser for a debriefing seeking explanations on the grounds on which their bids were not selected. The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after Publication of contract award, requests a debriefing.
- 43. Signing of Contract** 43.1 Promptly after notification, the Purchaser shall send to the successful Bidder the Contract Agreement and the Special Conditions of Contract.
- 43.2 Within twenty-eight (28) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.
- 44. Performance Security** 44.1 Within twenty-eight (28) days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the Performance Security in accordance with the GCC, using for

that purpose the Performance Security Form included in Section IX, Contract Forms, or another form acceptable to the Purchaser.

- 44.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or execution of the Bid-Securing Declaration. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

Section II. Bid Data Sheet

This Section includes provisions that are specific to each procurement and that supplement Section I, Instructions to Bidders. Whenever there is a conflict, the provisions herein shall prevail over those in Section I.

A. Introduction	
ITB 1.1	The Purchaser is: National Transmission And Despatch Company Limited
ITB 1.1	<p>The name of the ICB is: Procurement of 220 kV Transformer & Grid Station Material.</p> <p>The identification number of the ICB is: ADB-70-2015</p> <p>The number and identification of lots comprising this ICB is:</p> <p>Lot-I (220 kV Circuit Breakers)</p> <p>Lot-II (132 kV Circuit Breakers)</p> <p>Lot-III (220 kV Isolators)</p> <p>Lot-IV (132 kV Isolators)</p> <p>Lot-V (220 & 132 kV Instrument transformers, Surge Arrestors & Post Insulators)</p> <p>Lot-VI (220 /132 kV , 250 MVA Auto-Transformers)</p> <p>Lot-VII (Grid Station Hardware)</p> <p>Lot-VIII(Control & Relay Panels)</p> <p>Lot- IX(Control and Power Cables)</p> <p>Lot-X (Gantries)</p> <p>Lot-XI (132/11.5 kV Power Transformer)</p> <p>Lot-XII(220 & 132 kV Surge Arrestors and Post Insulators)</p> <p>The Bidder must bid for the complete Lot, and item-wise bidding of the Lot is not allowed. The bidder may bid for any of the above twelve (12) lots or all of the lots. A bidder offering discounts in case it is awarded contracts for which it has submitted Bids will be allowed to do so and these discounts will be considered in the evaluation process provided that such discounts are enumerated in the Letter of Bid and announced at the time of bid opening.</p>
ITB 2.1	The Borrower is: Islamic Republic of Pakistan.
ITB 2.1	The name of the Project is: ADB Power Transmission enhancement Investment Program (Tranche-IV).

B. Bidding Document	
ITB 7.1	<p>For clarification purposes only, the Purchaser's address is:</p> <p>Chief Engineer (Material Procurement & Management), NTDC 622-WAPDA House, Shahrah-e-Quaid-e-Azam, Lahore, Pakistan. Postal Code: 54000 Telephone: +92-42-99202597 Facsimile number: +92-42-99202173 E-mail address: cempm@ntdc.com.pk</p>
C. Preparation of Bids	
ITB 10.1	The language of the Bid is: English
ITB 11.1 (i)	<p>The Bidder shall submit the following additional documents with its Bid:</p> <ul style="list-style-type: none"> i) Copy of the deposit receipt of the tender fee. ii) Delivery Schedule and Schedule of technical data, duly filled in and signed, as provided in Section VI, Schedule of Supply. iii) Technical and commercial deviations from Tender Document if any. iv) Type certificates duly supported by reports of the offered equipment as per Section 6. In case of non-availability of the said, the bidder shall submit a testing plan regarding type testing of the offered equipment prior to mass production and without any change in the quoted price and tender delivery period.
ITB 13.1	Alternative Bids NOT permitted
ITB 14.5	The Incoterms edition is: Incoterms 2010
ITB 14.6 (b) (i)	For Goods offered from outside the Purchaser's country, the Bidder shall quote prices using the following Incoterms: CIF (Karachi)
ITB 14.6 (b) (ii)	In addition to the above, the Bidder shall quote prices for Goods offered from outside the Purchaser's country using the following Incoterms: FOB
ITB 14.7	The prices quoted by the Bidder shall be: Fixed
ITB 14.8	<p>Prices quoted for each lot shall correspond at least to 100 % of the items specified for each lot.</p> <p>Prices quoted for each item of a lot shall correspond at least to 100 % of the quantities specified for this item of a lot.</p>

ITB 19.2	The Bidder is required to include with its bid, the Manufacturer's Authorization.																																																				
ITB 19.3	The Bidder NOT required including with its bid, evidence that it will be represented by an Agent in the Purchaser's country.																																																				
ITB 20.1	The bid validity period shall be 150 days .																																																				
ITB 21.1	<p>A Bid Security shall be in the amount(s) stated in the Table below. Moreover, Bid Security Declaration is not required.</p> <table border="1" data-bbox="428 531 1382 1346"> <thead> <tr> <th>Sr. No.</th> <th>Lot No.</th> <th>Description</th> <th>Bid Security</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Lot-I</td> <td>(220 kV Circuit Breakers)</td> <td>112,930 US\$</td> </tr> <tr> <td>2.</td> <td>Lot-II</td> <td>(132 kV Circuit Breakers)</td> <td>67,850 US\$</td> </tr> <tr> <td>3.</td> <td>Lot-III</td> <td>(220 kV Isolators)</td> <td>49,686 US\$</td> </tr> <tr> <td>4.</td> <td>Lot-IV</td> <td>(132 kV Isolators)</td> <td>37,406 US</td> </tr> <tr> <td>5.</td> <td>Lot-V</td> <td>(220 & 132 kV Instrument transformers)</td> <td>110,249 US\$</td> </tr> <tr> <td>6.</td> <td>Lot-VI</td> <td>(220 /132 kV , 250 MVA Auto-Transformers)</td> <td>584,615 US\$</td> </tr> <tr> <td>7.</td> <td>Lot-VII</td> <td>(Grid Station Hardware)</td> <td>114,846 US\$</td> </tr> <tr> <td>8.</td> <td>Lot-VIII</td> <td>(Control & Relay Panels)</td> <td>95,000 US\$</td> </tr> <tr> <td>9.</td> <td>Lot-IX</td> <td>(Control and Power Cables)</td> <td>59,568 US\$</td> </tr> <tr> <td>10.</td> <td>Lot-X</td> <td>(Gantries)</td> <td>28,811 US\$</td> </tr> <tr> <td>11.</td> <td>Lot-XI</td> <td>(132/11.5 kV Power Transformer)</td> <td>27,723 US\$</td> </tr> <tr> <td>12.</td> <td>Lot-XII</td> <td>(220 & 132 kV Surge Arrestors and Post Insulators)</td> <td>20,256 US\$</td> </tr> </tbody> </table>	Sr. No.	Lot No.	Description	Bid Security	1.	Lot-I	(220 kV Circuit Breakers)	112,930 US\$	2.	Lot-II	(132 kV Circuit Breakers)	67,850 US\$	3.	Lot-III	(220 kV Isolators)	49,686 US\$	4.	Lot-IV	(132 kV Isolators)	37,406 US	5.	Lot-V	(220 & 132 kV Instrument transformers)	110,249 US\$	6.	Lot-VI	(220 /132 kV , 250 MVA Auto-Transformers)	584,615 US\$	7.	Lot-VII	(Grid Station Hardware)	114,846 US\$	8.	Lot-VIII	(Control & Relay Panels)	95,000 US\$	9.	Lot-IX	(Control and Power Cables)	59,568 US\$	10.	Lot-X	(Gantries)	28,811 US\$	11.	Lot-XI	(132/11.5 kV Power Transformer)	27,723 US\$	12.	Lot-XII	(220 & 132 kV Surge Arrestors and Post Insulators)	20,256 US\$
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ITB 22.1	In addition to the original of the Bid, the number of copies is: Three (03)																																																				
ITB 22.2	<p>The written confirmation of Authorization to sign on behalf of the Bidder shall consist of:</p> <p>a) An organizational document board resolution or its equivalent, or power of attorney specifying the representative's authority to sign the Bid on behalf of the Bidder. 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 the intended or existing joint venture partners of their intent to enter into a joint venture in the event of a</p>																																																				

	<p>contract award.</p> <p>b) Bids submitted by an existing or intended JV shall include an undertaking signed by all parties (i) stating that all parties shall be jointly and severally liable, and (ii) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.</p> <p>Scanned copies of any kind of authorization document are not acceptable.</p>
D. Submission and Opening of Bids	
ITB 23.1	Electronic bid submission is Not permitted.
ITB 23.3 (c)	The additional identification marks are: Not Applicable
ITB 24.1	<p>For bid submission purposes only, the Purchaser's address is :</p> <p>Chief Engineer (Material Procurement & Management), NTDC 622-WAPDA House, Shahrah-e-Quaid-e-Azam, Lahore, Pakistan. Postal Code: 54000</p>
ITB 24.1	<p>The deadline for bid submission is:</p> <p>Date: 4th August,2015 Time: 11:00 AM</p>
ITB 27.1	<p>The bid opening shall take place at:</p> <p>Chief Engineer (Material Procurement & Management), NTDC 622-WAPDA House, Shahrah-e-Quaid-e-Azam, Lahore, Pakistan. Date: 4th August,2015 Time: 11:30 AM</p>
ITB 27.1	Electronic bid submission is not permitted.
E. Evaluation, and Comparison of Bids	
ITB 34.1	<p>Bid prices quoted in different currencies shall be converted into equivalent Pak. Rupees:</p> <p>The source of exchange rate shall be TT/OD (telegraphic Transfer and Over Draft) issued by Treasury Dept. National Bank of Pakistan.</p>

	The date for the exchange rate shall be Bid Opening Date.
ITB 35.1	A margin of preference is applicable. The application methodology shall be as stipulated in Section-III, Evaluation and Qualification Criteria.
F. Award of Contract	
ITB 41.1	The maximum percentage by which quantities may be increased is: 15% The maximum percentage by which quantities may be decreased is: 15%

Section III. Evaluation and Qualification Criteria

A. Evaluation Criteria

In addition to evaluation parameters stated in clause 36 of ITB the following evaluation criteria and method shall be used for the purpose of evaluation of this tender.

1. Scope

The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. Furthermore, any bid not conforming to the qualification criteria mentioned herein shall not be considered for further evaluation.

1.1 Local Handling and Inland Transportation:

Costs for inland transportation, insurance, and other incidental costs for delivery of the goods from the EXW premises, or port of entry, or border point to Project Site as defined in Section VI, Schedule of Supply, shall be quoted in the price schedule for related services to be offered from outside and within the purchaser's country provided in Section IV, Bidding Forms. These costs will be taken into account during bid evaluation. If a Bidder fails to include such costs in its Bid, then these costs will be estimated by the Purchaser on the basis of published tariffs by the rail or road transport agencies, insurance companies, or other appropriate sources, and added to EXW or CIF price.

1.2 Minor Omissions or Missing Items:

Pursuant to Sub-Clause 31.3 of the Instructions to Bidders, the cost of all quantifiable nonmaterial nonconformities or omissions from the contractual and commercial conditions shall be evaluated. The Purchaser will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of Bids on the basis of the highest price quoted for the same Item by the other responsive bidder. If all the bidders do not have the prices for such nonmaterial nonconformities or omissions, the Purchaser shall base its assessment on the Purchaser's estimated cost of such Item(s).

2. Multiple Contracts

Goods are grouped in lots. The Purchaser will evaluate and compare Bids on the basis of a lot or a combination of lots, or as a total of lots in order to arrive at the least cost Combination for the Purchaser by taking into account discounts offered by Bidders in case of award of multiple contracts.

If a bidder submits successful bids for multiple lots (lowest evaluated substantially responsive bids), the evaluation will also include an assessment of the Bidder's capacity to meet the aggregated qualifying requirements - relating to qualifications criteria in Section B as follows:

- Average Annual Turnover;
- Financial Resources;
- Supply capacity;

3. Technical Criteria

It will be examined in detail whether the goods offered by the bidder comply with the Technical Specification of the Bidding Documents. It will also be examined in detail whether the bids comply with the Commercial/ Contractual Conditions of the Bidding Documents.

The requisite schedule of technical data in Annex [A] should be filled in and include in the bid. Otherwise, the bid shall be considered non-responsive. If there is only one annex, then use "Annex".

Type test reports shall be included in the bid as specified in Section-VI Schedule of Supply.

4. Economic Criteria

The evaluation of a bid will take into account, in addition to the Bid Price, the following factors (adjustments) in the manner and to the extent indicated hereof, to determine the Evaluated Bid Price.

- (i) Price Adjustment for Capitalization of Transformer Losses
- (ii) Price Adjustment on account of Late Delivery/Completion.

4.1 Price Adjustment for Capitalization of Transformer Losses

The capitalization of transformer losses will be made in accordance with the relevant provisions of NTDC specifications and evaluated prices will be calculated accordingly.

In the evaluation of tenders for transformers, the following rates shall be used for the capitalization of losses and auxiliary power consumption by cooling fans.

For 220/132/11 kV Auto-Transformer

Capitalized Cost of no-load losses	= US \$ 5,200/- per kilowatt
Capitalized Cost of load losses	= US \$ 2,700/- per kilowatt
Capitalized Cost of auxiliary consumption	= US \$ 2,700/- per kilowatt

For 132/11 kV Transformer

Capitalized Cost of no-load losses	= US \$ 5,200/- per kilowatt
Capitalized Cost of load losses including Consumption of fan motors	= US \$ 1200/- per kilowatt

4.2 Price Adjustment on account of Late Delivery

Bids, offering delivery later than the schedule given by the Purchaser, shall be adjusted in evaluation by adding to the bid price an amount of 0.05% of the CIF/Ex-works prices of the goods per day of late delivery for a maximum period of 30 days. Any Bid offering delivery schedule beyond 30 days from the required delivery period shall be considered non-responsive and rejected.

5. Margin of Preference

1. In comparison of evaluated bids, Purchaser will grant a margin of preference to goods manufactured in Pakistan. For this purpose, responsive bids shall be classified in one of the following three groups:
 - (a) **Group A:** bids exclusively offering goods manufactured in the country of the borrower if the bidder establishes to the satisfaction of the borrower and ADB that:
 - i) labor, raw material, and component from within the country of the borrower will account for 30 (%) or more of the EXW price of the product offered, and
 - ii) The production facility in which those goods will be manufactured or assembled has been engaged in manufacturing/assembling such goods at least since the time of bid submission.
 - (b) **Group B:** all other bids offering goods manufactured in the country of the borrower.
 - (c) **Group C:** bids offering goods manufactured abroad that have been already imported or that will be directly imported.
2. The price quoted for goods in bids of groups A and B shall include all duties and taxes paid or payable on the basic materials or component purchased in the domestic market or imported, but shall exclude the sales and similar taxes on the finished product. The price quoted for goods in bids of group C shall be on CIF, which is exclusive of customs duties and other import taxes already paid or to be paid.
3. In the first step, all evaluated bids in each group shall be compared to determine the lowest bid in each group. Such lowest evaluated bids shall be compared with each other and if, as a result of this comparison, a bid from group A or group B is the lowest, it shall be selected for the award.
4. If as a result of the comparison under paragraph three above, the lowest

evaluated bid is a bid from group C, the lowest evaluated bid from group C shall be further compared with the lowest evaluated bid from group A after adding to the evaluated price of goods offered in the bid from group C, for the purpose of this further comparison only, an amount equal to fifteen percent (15%) of the CIF bid price. The lowest evaluated bid determined from this last comparison shall be selected.

B. Qualification Criteria

1. Financial Criteria

1.1 Historical Financial Performance

Bidder must submit audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to Purchaser, for the last 03 years to demonstrate the current soundness of the Bidder's financial position. As a minimum, the Bidder's net worth for the last 3 years calculated as the difference between total assets and total liabilities should be positive. If Bidder is a JV, each partner must meet the requirement above.

1.2 Annual Turnover

To be awarded a Contract for any lot, the bidder must demonstrate an average annual turnover calculated as total payments received by the Bidder for contract completed or under execution during the last 3 years equal to or more than the amounts quoted below.

Sr. No.	Lot No.	Description	Minimum Average Annual Turnover (AAT)
1.	Lot-I	(220 kV Circuit Breakers)	23.05 Million US\$
2.	Lot-II	(132 kV Circuit Breakers)	13.85 Million US\$
3.	Lot-III	(220 kV Isolators)	6.73 Million US\$
4.	Lot-IV	(132 kV Isolators)	5.07 Million US
5.	Lot-V	(220 & 132 kV Instrument transformers + LAs)	7.6 Million US\$
6.	Lot-VI	(220 /132 kV , 250 MVA Auto-Transformers)	119.4 Million US\$
7.	Lot-VII	(Grid Station Hardware)	12.00 Million US\$
8.	Lot-VIII	(Control & Relay Panels)	9.7 Million US\$
9.	Lot-IX	(Control and Power Cables)	6.08 Million US\$
10.	Lot-X	(Gantries)	2.94Million US\$

11.	Lot-XI	(Power transformers)	2.83 Million US\$
12.	Lot-XII	(220 & 132 kV Surge Arrestor and Post Insulators)	2.06 Million US\$

If Bidder is a JV, the following requirements must be met:

- i) All partners combined must meet the requirements above. The combined annual turnover of partners in a JV shall be calculated by summing their individual turnovers;
- ii) Each partner must meet at least 25% of the requirement in table above;
- iii) One partner must meet 40% of the requirement in table above;

1.3 Financial Resources

The Bidder must demonstrate availability of or access to liquid assets, lines of credit, and other finances sufficient to meet any possible cash flow requirement, which may arise during the execution of the contract. This should in appropriate cases also take into account the Bidder's commitments for other contracts. The minimum cash flow requirements for each lot are below:

Sr. No.	Lot No.	Description	Minimum required cash flow
1.	Lot-I	(220 kV Circuit Breakers)	5.081 Million US\$
2.	Lot-II	(132 kV Circuit Breakers)	3.053 Million US\$
3.	Lot-III	(220 kV Isolators)	2.235 Million US\$
4.	Lot-IV	(132 kV Isolators)	1.683 Million US\$
5.	Lot-V	(220 & 132 kV Instrument transformers + LAs)	4.961 Million US\$
6.	Lot-VI	(220 /132 kV, 250 MVA Auto-Transformers)	26.307 Million US\$
7.	Lot-VII	(Grid Station Hardware)	5.168 Million US\$
8.	Lot-VIII	(Control & Relay Panels)	4.275 Million US\$
9.	Lot-IX	(Control and Power Cables)	2.680 Million US\$
10.	Lot-X	(Gantries)	1.296 Million US\$
11.	Lot-XI	(Power Transformer)	1.247 Million US\$
12.	Lot-XII	(220 & 132 kV Surge Arrestor and Post Insulators)	0.91 Million US\$

If Bidder is a JV, the following requirements must be met:

- i) All partners combined must meet the requirements above;

- ii) Each partner must meet at least 25% of the requirement in table above;
- iii) One partner must meet 40% of the requirement in table above;

2. Contractual Experience

2.1 Contract Experience

The bidder as main supplier must have completed at least three (3) number of similar contracts (in terms of value and nature) successfully within the last five (5) years. The value of each contract shall at least be equal to 80% of the value of contract for which the bid is submitted and equipment shall have the same or higher rating and capacity. Bidder shall submit with the bid Copies of the contract agreements/End user certificates for verification of above-mentioned contractual experience.

2.2 Supply Capacity

The manufacturer shall demonstrate that it has manufactured and supplied similar equipment/ goods of the same or higher rating and capacity in quantities of at least 80% of the quantities of the contract to be let within a period equal to or less than the delivery period outlined in Section-6.

The requirements can be met against a single or multiple contracts.

2.3 **Manufacturing/Operational Experience Criteria**

- i) The Equipment/Goods offered must have successful operational experience as per following:

Sr. No.	Lot No.	Description	Operational Experience (Years)	Manufacturing Experience (Years)
1.	Lot-I	(220 kV Circuit Breakers)	03	05
2.	Lot-II	(132 kV Circuit Breakers)	03	05
3.	Lot-III	(220 kV Isolators)	03	05
4.	Lot-IV	(132 kV Isolators)	03	05
5.	Lot-V	(220 & 132 kV Instrument transformers + LAs)	03	05
6.	Lot-VI	(220 /132 kV , 250 MVA Auto-Transformers)	03	05
7.	Lot-VII	(Grid Station Hardware)	03	05
8.	Lot-VIII	(Control & Relay Panels)	03	05
9.	Lot-IX	(Control and Power Cables)	03	05
10.	Lot-X	(Gantries)	03	05
11.	Lot-XI	(Power Transformers)	03	05
12.	Lot-XII	(220 & 132 kV Surge Arrestor and Post Insulators)	03	05

- ii) To be awarded a contract, the manufacturer of major outsource components(i.e OLTC, bushings, gauges, relays, meters etc.) must also have at least 5 years design & manufacturing experience of similar offered goods/ equipment with the same or higher rating and capacity and 3 years of successful continuous operation experience of such goods/equipment, as on bid opening date.
- iii) In above context, satisfactory operational certificates from at least three (3) utility company (ies) shall be submitted with the bid. The submitted operational certificates must indicate the names of clients along with their contact address, phone numbers, fax numbers, web-site and e-mail addresses. The bidder must also submit with the bid the copies of contract agreements duly notarized (along with translation in English if original is in different language) for these supplies. Further, the summary of operational experience be provided as per Form QF-4 provided in Section-IV (Bidding Forms) in the order of value and least to latest form.
- iv) For verification of the past performance as a part of pre-qualification, the purchaser may ask for the copies of the contract agreement for the equipment indicated in the supply record of the bidder pertained to the specified and comparable equipment during the bid evaluation.

2.4 Litigation and Arbitration History

All pending claims, arbitrations, or other litigation shall be treated as resolved against the bidder and so shall in total not represent more than 40% of the bidder's net worth. If Bidder is JV each partner must fulfill the said requirement individually/separately.

Section IV. Bidding Forms

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Bid Submission Sheet

Date: _____

ICB No.: _____

Invitation for Bid No.: _____

To: _____

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No.: _____;
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the delivery schedule specified in the Schedule of Supply, the following Goods and Related Services: _____
_____;
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is: _____
_____;
- (d) The discounts offered and the methodology for their application are: _____

_____;
- (e) Our Bid shall be valid for a period of _____ days from the date fixed for the bid submission deadline in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ percent of the Contract Price for the due performance of the Contract;
- (g) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries _____;
- (h) We are not participating, as Bidders, in more than one Bid in this bidding process.

- (i) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the ADB;
- (j) We are not a government owned entity / We are a government owned entity but meet the requirements of ITB 4.5¹;
- (k) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract:

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____

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

- (l) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.
- (m) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (n) We agree to permit ADB 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 ADB.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

¹ Use one of the two options as appropriate.

Price Schedule For Goods To Be Offered From Within The Purchaser's Country

LOT-I
(220 kV Circuit Breakers)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
1.	245kV Circuit Breaker (Specification P-171:08)						5 x 7		8 + 9
1.1	245kV, M2 Type, 3-phase, 2000 A (220V DC), 40kA 3 sec, SF6 Circuit Breakers with bushings having extended creepage distance and terminal head (flat, 125mm x 125mm, tin plated or silver plated copper) along with steel supporting structures, anchor bolts, etc as per specifications P-171:08, P-19:83, P139:80, P82:81, P182:91			40	Sets				
1.2	Mandatory Spare parts as per clause 15.7 of P-171:08 (bidder shall attach the list alongwith price break down)			1	Lot				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.
Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 8: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15

Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.

Column 10: Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

**Price Schedule For Goods
To Be Offered From Within The Purchaser's Country**

LOT-II

(132 kV Circuit Breakers)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1.	145kV Circuit Breaker (Specification P-193:10)								
1.1	145kV, 2000A, 40kA 3sec, M-2 Type, 110V DC, three pole with bushings having extended creepage distance terminal head (flat, 125mm x 125mm, thickness 16mm, tin plated or silver plated copper), steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-193:10, P-19:83, P139:80, P82:81, P182:91			53	Sets				
1.2	Mandatory Spare parts as per clause 16 of P-193:10 (bidder shall attach the list alongwith price break down).			1	Lot				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.
Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 8: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15

Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.

Column 10: Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods
To Be Offered From Within The Purchaser's Country
 (LOT-III)
 (220kV Isolators)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1.	245kV Isolators (Specification P-173:83)								
1.1	Bus Isolators (without earthing switch), 2000A, M2 Type, 40kA 3 sec, 3-phase, 220VDC motor operated alternating current bus Disconnecter with bushings having extended creepage distance and terminal head (vertical, 125mm in length, 60mm in dia, tin plated or silver plated copper) complete with steel supporting structures, anchor bolts, earthing platforms, etc and all other accessories as per WAPDA specification P-173-83, P-19:83, P139:80, P82:81, P182:91, P135:80.			90	Set				
1.2	Mandatory Spare Parts as per clause 10 of P-173:83 for item 1.1 (bidder shall attach the list alongwith price break down)			1	Lot				
1.3	Line Isolators (with earthing switch), 2000A, M2 Type, 40kA 3 sec, 3-phase, 220VDC motor operated alternating current bus Disconnecter with bushings having extended creepage distance and terminal head (vertical, 125mm in length, 60mm in dia, tin plated or silver plated copper) complete with steel supporting structures, anchor bolts, earthing platforms, etc and all other accessories as per WAPDA specification P-173-83, P-19:83, P139:80,			14	Set				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	P82:81, P182:91, P135:80.								
1.4	Mandatory Spare Parts as per clause 10 of P-173:83 for item 1.3(bidder shall attach the list alongwith price break down)			1	Lot				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.
Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 8: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15
Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.

Column 10: Payable in the Purchaser’s country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods
To Be Offered From Within The Purchaser's Country
 (LOT-IV)
 (132kV Isolators)

Name of Bidder _____ IFB Number _____ Page 1 of 3

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1.	145kV Isolators (Specification P-128:11)								
1.1	Bus Isolator (without earthing switch), 145kV, 2000 A, 40kA 3sec, M-1 Type, three pole (Serial Arrangement) 110V DC motor operated with bushings having extended creepage distance and terminal head (flat, 125mm x 125mm, 16mm thickness, High strength Al Alloy), alongwith steel supporting structure, earthing platform, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-128:11, P-19:83, P139:80, P82:81 P182:91,P135:80.			104	Set				
1.2	Bus Isolator (without earthing switch), 145kV, 2000 A, 40kA 3sec, M-1 Type, three pole, (Parallel Arrangement) 110V DC motor operated with bushings having extended creepage distance and terminal head (flat, 125mm x 125mm, 16mm thickness, High strength Al Alloy), alongwith steel supporting structure, earthing platform, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-128:11, P-19:83, P139:80, P82:81 P182:91,P135:80.			14	Set				
1.3	Line Isolator (with motor operated earthing switch), 145kV, 2000A, 40kA 3sec, M-1 Type, three pole, (Parallel Arrangement) 110V DC motor operated with bushings having extended creepage distance and terminal head (flat, 125mm x 125mm, 16mm			33	Set				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	thickness, High strength Al Alloy), , steel supporting structure, earthing platform, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-128:11, P-19:83, P139:80, P82:81, P182:91,P135:80.								
2.	Mandatory Spare Parts								
2.1	Spare Parts for item 1.1,1.2 and 1.3								
	i. 3-phase set of male and female contacts for disconnectors for 2000A Disconnector			16	Set				
	ii. 3-phase set of male and female contacts for earthing switches for 2000 A Disconnector			16	Set				
	iii. Motor operated mechanism complete			16	Set				
	iv. Pedestal insulators for 145 kV disconnectors			16	Set				
	v. Auxiliary switches for earthing switches			16	Set				
	vi. Auxiliary switches for disconnectors			16	Set				
	vii. Motor of each type used			16	No.				
	viii. Heater			16	No.				
	ix. Limit switches			16	Set				
	x. Thermal Relay (thermo + humidity)			16	No.				
	xi. Contactor and fuses of each type used			16	Set				
	xii. Resistor, diodes and switches			16	Set				
	xiii. Motor clutch			16	No.				
	xiv. Motor brake			16	No.				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.

Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 8: Incoterm in accordance with ITB Clause 14

Currency in accordance with ITB Clause 15

Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.

Column 10: Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods
To Be Offered From Within The Purchaser's Country
 LOT-V
 (220&132kV Instrument Transformers, Lightning Arrestors and Post Insulators)

Name of Bidder _____ IFB Number _____ Page 1 of 6

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1.	245kV Current Transformers (P-174:05)								
1.1	245 kV Current Transformers, single pole, 40 kA 3 sec, 4 core of current ratio 2400:1200:600/1A having tapping at secondary (i.e. CT ratio adjustable from secondary side, no series or parallel connection adjustment on primary side) with bushings having extended creepage distance and terminal head (Horizontal type, 60mm dia, 125mm in length, silver or tin plated copper) complete with marshalling boxe (1 for each set of 3 No. CTs), anchor bolts, steel supporting structure, etc and all other allied accessories as per WAPDA/NTDC specification, P-174:08, P-19:83, P139:80, P82:81, P182:91.			152	No.				
2.	245kV CVT/CCVT								
2.1	220 kV Coupling capacitor voltage transformer (CCVT), Single pole, 2 core, 220/V3kV / 110/V3V ,110/V3V voltage ratio, min.6000pF with bushing having extended creepage distance and terminal head (vertical type, 80mm in length, 30mm dia, tin or silver plated copper) , complete with marshalling boxe (1 for each set of 3 No. CCVTs), power line carrier coupling facilities, steel supporting structure,			28	No.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-Draft,P-19:83,P-139:80,P-82:81,P-182:91.								
2.2	Mandatory Spare Part for item 2.1 as per clause 10.7 of P-172:83(bidder shall attach the list alongwith price break down).			1	Lot				
2.3	220 kV Capacitor voltage transformer (CVTs), Single pole, 2 core, 220/V3kV / 110/V3V / 110/V3V voltage ratio with bushings having extended creepage distance and terminal head (vertical type, 80mm in length, 30mm dia, tin or silver plated copper), complete with marshaling box (1 for each set of 3 No. CVTs), steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-172:83, P-19:83, P139:80, P82:81, P-182:91.			49	NO.				
2.4	Mandatory Spare Part for item 2.3 as per clause 10.7 of P-172:83(bidder shall attach the list alongwith price break down).			1	Lot				
3.	145kV Current Transformer								
3.1	145kV Current Transformers, single pole, 40kA 3 sec, 4-core of current ratio 1600:800:400/1A having tapping at secondary (i.e. CT ratio adjustable from secondary side, no series or parallel connection adjustment on primary side) complete with bushings having extended creepage distance and terminal head (Horizontal stud type, 125mm in length & 40mm dia, tin or silver plated copper), complete with marshaling box (1 for each set of 3 No. CTs), anchor bolts, steel supporting structure, etc and all other allied accessories as per WAPDA/NTDC specification P-90:12, P-19:83, P139:80, P82:81, P182:91.			159	No.				
3.2	145kV Current Transformers, single pole, 40kA 3 sec, 4-core of current ratio 100:200/1A ratio having			14	No.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	tapping at secondary (i.e. CT ratio adjustable from secondary side, no series or parallel connection adjustment on primary side) complete with bushings having extended creepage distance and terminal head (stud type, 125mm in length & 40mm dia, tin or silver plated copper), complete with marshaling box (1 for each set of 3 No. CTs), anchor bolts, steel supporting structure, etc. and all other allied accessories as per WAPDA/NTDC specification P-90:12, P-19:83, P139:80, P82:81, P182:91								
3.3	145kV Metering Current transformer, single pole, 40kA 3sec, 1-core of current ratio 1200:600/1A ratio having tapping at secondary (i.e. CT ratio adjustable from secondary side, no series or parallel connection adjustment on primary side) complete with bushings having extended creepage distance and terminal head (horizontal / stud type, 125mm in length & 60mm dia, tin or silver plated copper), marshaling box (1 for each set of 3 No. CTs), steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/ NTDC specification P-205,P-19:83, P139:80, P82:81, P182:91			34	No.				
4	145kV Potential Transformers								
4.1	145kV Voltage transformer, single pole, 2-core of voltage ratio 145/ $\sqrt{3}$ / 0.11/ $\sqrt{3}$ / 0.11/ $\sqrt{3}$ kV with bushing having extended creepage distance and terminal head (stud type, 80mm in length and 30mm in dia, silver or tin plated copper) complete with marshaling box (1 for each set of 3 No. VTs), steel supporting structure, anchor bolts and all other allied accessories as per WAPDA/NTDC specification P-129:11, P-19:83, P139:80, P82:81, P-182:91			28	No.				
4.2	145kV Metering Voltage transformer, single pole, 1-core 145/ $\sqrt{3}$ / 0.11/ $\sqrt{3}$ kV ratio with bushing having			34	No.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	extended creepage distance and terminal head (stud type, 80mm in length and 30mm in dia, silver or tin plated copper) complete with marshaling box (1 for each set of 3 No. VTs), steel supporting structure, anchor bolts and all other allied accessories as per WAPDA/ NTDC specification P-206,P19:83,P139:80,P82:81, P182:91								
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.
Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 8: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15
Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.

Column 10: Payable in the Purchaser’s country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Within The Purchaser's Country

LOT-VI

(220/132 kV, 250 MVA Auto-Transformers)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1.	220/132/11kV, 250 MVA, 3-Phase, Auto-transformer as per P-169:09 with bushings having extended creepage distance complete with indoor & outdoor control cubicles, tertiary interconnections and Grounding Arrangement, neutral grounding system, terminal connectors for connection with Hawthorn conductor (2x600mm ²) on HV/LV Side, On Load Tap Changer OLTC (MR Germany make or equivalent) and all other allied accessories as specified.			10	No.				
2	Spare Parts as per clause 17 of P-169:2009(bidder shall attach the list alongwith price breakdown of spare parts)			1	Lot				
3.	Nitrogen injection explosion prevention and fire protection system (sergi France or equivalent) for autotransformer bank complete along with all accessories including support pipes, foundation drawings, etc. and as specified. Erection supervision of the said system shall also be the part of the scope.			10	No.				
4.	Supervision of erection testing and commissioning of Auto Transformers & Nitrogen injection explosion			1	Lot				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	prevention and fire protection system as per Price Schedule for Related Services to be offered from outside & within the purchaser's country.								
Total Amount									

Notes:

- Column 4: In accordance with margin of preference ITB Clause 35, if applicable.
Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.
- Column 8: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15
Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.
- Column 10: Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods
To Be Offered From Within The Purchaser's Country
 LOT-VII
 (Grid Station Hardware)

Name of Bidder _____ IFB Number _____ Page 1 of 5

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1	Tension String Assemblies								
1.1	220 kV double tension string assemblies complete with accessories with 2x15 Nos. 100 kN Disc insulators, Al. Alloy conductor 400 mm apart for 2x600 mm ² Hawthorn as per NTDC/WAPDA specifications P-Draft, P-8:96.								
a)	With turn buckle			166	Set				
b)	Without turn buckle			166	Set				
1.2	132kV, double tension string assembly for 2x600mm ² (Hawthorn) conductor alongwith 2x10 Nos. disc insulators, 100kN complete with hardware and allied accessories as per NTDC/WAPDA spec P-Draft,P8:96								
a)	With turnbuckle			117	Set				
b)	Without turnbuckle			117	Set				
1.3	132kV, single tension string assembly for 1x600mm ² (Hawthorn) conductor alongwith 10 Nos. disc insulators, 100 kN complete with hardware and allied accessories as per NTDC/WAPDA spec P-Draft,P8:96								
a)	With turnbuckle			57	Set				
b)	Without turnbuckle			57	Set				
2	Suspension String Assemblies								
2.1	220 kV double suspension string assemblies complete with accessories with 2x15 Nos. Disc			173	Set				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	insulators 100 kN, Al. Alloy conductor 400 mm apart for 2x600 mm ² Hawthorn as per NTDC/WAPDA specifications P-Draft, P-8:96.								
2.2	132kV, double suspension string assembly for 2x600mm ² (Hawthorn) conductor alongwith 2x10 Nos. disc, 100kN insulators complete with hardware and allied accessories as per NTDC/WAPDA spec P-Draft,P8:96			62	Set				
2.3	132kV, single suspension string assembly for 1x600mm ² (Hawthorn) conductor alongwith 1x10 Nos. disc, 100kN insulators complete with hardware and allied accessories as per NTDC/WAPDA spec P-Draft,P8:96			28	Set				
3	Tension assembly for 9mm Earth wire for fitting complete with all accessories as per NTDC/Wapda specification No. P-141:80.			395	Set				
4	Aluminum Pipe								
4.1	Aluminum Alloy Pipe having outer dia 88.90 mm, (3''), 12 m long, as per NTDC/WAPDA specification P-134:80.			4320	meter				
5	Connectors								
5.1	132kV Connectors								
	1. TDMHH(2x600) (2x600)			290	No.				
	2. TDMHH(2x600) (1x600)			200	No.				
	3. TMHH			160	No.				
	4. TMRH			110	No.				
	5. SH-400			450	No.				
	6. SH-200			500	No.				
	7. PGHH			100	No.				
	8. 0MH30			36	No.				
	9. ODBH60			72	No.				
	10. OBH30			36	No.				
	11. ODBH40			130	No.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	12. ODBHF			110	No.				
	13. ODMHF			165	No.				
	14. 45DMHF			50	No.				
	15. 90DMHF			40	No.				
	16. 90BH30			30	No.				
	17. 90MHF			175	No.				
	18. 0MHF			390	No.				
	19. 0BH40			230	No.				
	20. 0BHF			230	No.				
	21. 45MHF			90	No.				
	22. BSH			50	No.				
	23. TMH30			14	No.				
5.2	220kV Connectors								
	1. TDMHH(2x600) (2x600)			285	No.				
	2. TDMRH			43	No.				
	3. TMHH			40	No.				
	4. SH-400			220	No.				
	5. SH-200			650	No.				
	6. BSP3.0			145	No.				
	7. TDMPH3.0			175	No.				
	8. 90DBH60			190	No.				
	9. 90BEP3.0,60			375	No.				
	10. 90BP3.0,60			130	No.				
	11. 0BEP3.0,F			130	No.				
	12. 0BP3.0,F			130	No.				
	13. 0BEP3.0,60			175	No.				
	14. 0BP3.0,60			175	No.				
	15. TBP3.0,30			30	No.				
	16. TDBH30			122	No.				
	17. 90BH30			10	No.				
	18. 0DMPH3.0			10	No.				
	19. PGHH			50	No.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
6.	All Aluminum Conductor								
a)	600 mm ² Hawthorn Conductor as per NTDC/WAPDA specification P-63:2007.			45,000	Meter				
7.	Copper Conductor								
	120mm ² copper conductor as per NTDC/WAPDA specification P-16:68.			60,000	Meter				
8.	Overhead Shield wire.								
	9 mm (7/3.0 mm) dia Galvanized Steel wire as per NTDC / WAPDA specification P-12:80.			14	KM				
9.	Earthing Rod 16mm dia, 3 m long as per NTDC specification P-116:81.			750	Nos.				
10.	Copper(tin coated) thimble lug for 120mm ² grounding conductor along with fixing arrangements(nut, bolt & washers)			7,000	Nos.				
11.	Earthing Material for Jointing as per NTDC specification P-114:82 for 120mm ² copper conductor.								
11.1	Cartridges								
a)	G			5,000	No.				
b)	H			2250	No.				
c)	I			1750	No.				
11.2	Moulds								
a)	G			75	No.				
b)	H			46	No.				
c)	I			40	No.				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.
Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 8: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15
Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.

Column 10: Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Within The Purchaser's Country

LOT-VIII

(220&132 kV Control Panels, Relay Panels, Auxiliary Services Panels & Erection & Testing Equipment)

Name of Bidder _____ IFB Number _____ Page 1 of 9

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1	220kV Control Panels as per NTDC Specification P-191:2007								
i)	Line and Auto transformer control panel type C1			12	Nos.				
ii)	Synchronizing Panel type C6 (including manual synchronizing closing of 132kV bus coupler circuit breaker)			04	Nos.				
2	220kV Relay Panels as per NTDC Specification P-191:2007								
i)	Distance protection relay panel (Set-I) type R1			12	Nos.				
ii)	Distance protection relay panel (Set-II) type R2			12	Nos.				
iii)	Transformer protection relay panel (Set-I) type R3			10	Nos.				
iv)	Transformer protection relay panel (Set-II) type R4			10	Nos.				
v)	Breaker failure protection relay panel type R5 (without 132kV Breaker failure relay)			12	Nos.				
vi)	Trip circuit supervision relay panel type R6 (with trip circuit supervision relays for 132kV Circuit Breaker)			12	Nos.				
viii)	220kV relay panel R7 for Bus-I & Bus-II with Low impedance bus bar (de-centralized) or high bus bar protection selecting all CTs with same CT ratios.			04	Nos.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
3	220kV Marshaling Kioskas per NTDC Specification P-191:2007								
i)	Marshaling Kioskas Type S1 (for Bus-I side CBs)			12	Nos.				
ii)	Marshaling Kioskas Type S2 (for Bus-II side CBs)			10	Nos.				
iii)	Marshaling Kioskas Type S3(for Mid side CBs)			12	Nos.				
4	132kV Control Panels as per NTDC Specification P-191:2007								
i)	Line Control Panel CP-31 with Energy Meter of accuracy class 0.5S (P-202:2012 for energy meters)			28	Nos.				
ii)	Transformer Control Panel CP-51			04	Nos.				
iii)	Bus Coupler Control Panel CP-40			04	Nos.				
5.	132kV Relay Panels as per NTDC Specification P-191:2007								
i)	Bus Coupler Relay Panel RP-1			04	Nos.				
ii)	Line Relay Panel RP-3 (including auto reclosing relay)			28	Nos.				
iii)	Transformer Relay Panel RP-4			04	Nos.				
iv)	132 kV Low Impedance Bus bar-I & II Protection Panel (RP6) with built-in feature of Breaker Failure Protection for all 132kV CBs of Line, Transformer & Bus Coupler Bays			04	Nos.				
6.	132kV Marshaling Kiosk as per NTDC Specification P-191:2007								
i)	Type S0 (for 220/132kV Auto-Transformer)			10	Nos.				
ii)	Type S1 (for 132kV Lines)			28	Nos.				
iii)	Type S2 (for 132/11kV Power Transformer)			04	Nos.				
iv)	Type S3 (for Bus Coupler)			04	Nos.				
7.	Metering Panels P-199:08 & P-202:12								
i)	220kV Energy Meter Panel (without AC Power Transducers and paperless recorder) alongwith Energy meters(accuracy class 0.2S) for 220kV Line metering.								
	a)4-Line metering panel			02	Nos.				
	b)2-Line metering panel			02	Nos.				
ii)	132kV Metering Panel (without AC Power								

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	Transducers and paperless recorder) with energy meters for Energy transfer metering								
	a) 3-Line metering Panel			02	Nos.				
	b) 2-Line metering Panel			02	Nos.				
	c) Data Communication cubicle including but not limited to Optical Probe, RS232 lead, RS485 to Ethernet Converter, RS485 to RS232 Converter, RS485 to PSTN Converter/Modem, RS485 to GSM/GPRS Converter/Modem with GSM Antenna.			04	Nos.				
8.1	AC/DC Auxiliary Supply Panels (As per NTDC Specification P-48:81)								
i)	220V DC-I & II Auxiliary Supply Panels with both manual & automatic change over facility as per NTDC Specification			05	Sets				
ii)	110V DC-I & II Auxiliary Supply Panels with both manual & automatic change over facility as per NTDC Specification			05	Sets				
iii)	415/240V AC-I & II Auxiliary Supply Panels with both manual & automatic change over facility along with emergency bus bar for 100kVA Diesel Generator Set			09	Sets				
8.2	Battery Bank								
i)	Lead acid battery bank, 220V, 300AH complete with accessories as per specification P-132.			08	Nos.				
ii)	Lead acid battery bank, 110V 150AH complete with accessories as per NTDC specification P-132			08	Nos.				
8.3	Battery Chargers								
i)	Automatic static battery charger 220V, 40A complete with accessories as per NTDC Specification P-133.			09	Nos.				
ii)	Automatic static battery charger 110V, 25A 40A complete with accessories as per NTDC Specification P-133.			09	Nos.				
8.4	11kV Switchgear								
i)	11kV Metal clad Incoming panel as per NTDC spec P-44			04	Nos.				
ii)	11kV Metal clad Outgoing panel as per NTDC spec P-			09	Nos.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	44.								
9.	Miscellaneous Panels as per NTDC Specification P-191:2007								
i)	Event Recorder Panel			04	Nos.				
ii)	Fault Recorder / Automatic Transient Recording Oscillograph for complete 220kV & 132kV system of Grid Station			04	Nos.				
10.	Mandatory Spare Parts								
i)	Event Recorder:								
	a. Plug-in modules at least one of each type used			04	Set				
	b. Fuses of each type used			120	Set				
	c. Rolls of paper with accessories, complete			200	No.				
	d. Printer cartridge / ribbon			200	No.				
	e. One MCB's of each type used in control circuit etc			04	Set				
ii)	Oscillograph:								
	a. Plug-in modules at least one of each type used			04	Set				
	b. Fuses of each type used			80	Set				
	c. Rolls of paper with accessories, complete			200	Set				
	d. Printer cartridge / ribbon			120	Set				
	e. Indicating lamps of each type used			120	No.				
	f. One MCB's of each type used.			04	Set				
iii)	Relay Boards and Relays:								
	Line Protection Relays:								
	a. 220kV Distance or Line Differential Relay Set-I relay of each type used			04	No.				
	b. 220kV Distance or Line Differential Relay Set-II relay of each type used			04	No.				
	c. 132kV Distance or Line Differential Relay of each type used			04	No.				
	d. 220kV O/C & E/F relay of each type used			04	No.				
	e. 132kV O/C & E/F relay of each type used			04	No.				
	f. All other auxiliary relays miscellaneous relays, and accessories of each type used. (minimum 10% of installed quantity).			04	Lot				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	Transformer Protection Relays:								
	a. Transformer differential relays of each type used			04	No.				
	b. REF relay of each type used			04	No.				
	c. Overall %age Biased Differential Protection relay of each type used			04	No.				
	d. HV Connection protection relay of each type used			04	No.				
	e. LV Connection protection relay of each type used			04	No.				
	f. HV O/C & E/F relay of each type used			04	Lot				
	g. LV O/C & E/F relay of each type used			04	No				
	h. Neutral O/C relay of each type used			04	No.				
	i. Tertiary O/C relay of each type used			04	No.				
	j. Thermal Over Load relay of each type used			04	No.				
	k. Over fluxing relay of each type used			04	No.				
	l. All other auxiliary relays miscellaneous relays, and accessories of each type used. (minimum 10% of installed quantity).			04	Lot				
	Miscellaneous Protection Relays:								
	a. 220kV Breaker Failure relay of each type used			08	No.				
	b. 220kV BB Protection relay of each type used			04	No.				
	c. 132kV BB Protection relay of each type used			04	No.				
	d. Synchronism check relay of each type used			04	No.				
	e. Trip circuit supervision relay (220VDC) of each type used			16	No.				
	f. Trip circuit supervision relay (110VDC) of each type used			12	No.				
	g. High speed, high burden self reset trip relay (220VDC) of each type used (8 NO + 2 NC)			16	No.				
	h. High speed, high burden self reset trip relay (110VDC) of each type used (8 NO + 2 NC)			04	No.				
	i. High speed, high burden Trip & Lock out relay (220VDC) of each type used (8 NO + 2 NC) or (18 NO + 2 NC)			48 or 24	No.				
	j. High speed, high burden Trip & Lock out relay (110VDC) of each type used (8 NO + 2 NC)			08	No.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	k. Auxiliary relays consisting each type used (minimum 10% of installed quantity)			04	Lot				
	l. Test plug for relays and meters, one of each type used (minimum 10% of installed quantity)			04	Lot				
	m. Supervision relays for DC supply (220VDC) one of each type used			04	No.				
	n. Supervision relays for DC supply (110VDC) one of each type used			04	No.				
	o. Over current and ground fault relay for 132kV bus coupler one of each type used			04	No.				
	p. Laptop computer alongwith accessories			04	No.				
	q. Desktop computer alongwith accessories			04	No.				
	r. Laser Jet Printer alongwith accessories			04	No.				
11	Design & preparation of all schematic & interconnection drawings and installation testing and commissioning of control, protection & metering panels for four (4) No. 220/132 kV AIS Substations as per Price Schedule for Related Services to be offered from outside & within the purchaser's country.			1	Lot				
12	Erection & Testing Equipment and Maintenance Tools								
	1. Phase sequence indicator as specified of Megger UK or approved Equivalent.			04	No.				
	2. Primary current injection test sets specified of Megger UK or approved Equivalent.			04	No.				
	3. Secondary injection relay test set as specified of Megger UK or approved Equivalent.			04	No.				
	4. Digital phase angle meter as specified of Megger UK or approved Equivalent.			04	No.				
	5. HV insulation resistance tester as specified of Megger UK or approved Equivalent.			04	No.				
	6. Standard multi-range multi-meter as specified of Megger UK or approved Equivalent.			16	No.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	7. Clip on ammeter/voltmeter as specified of Megger UK or approved Equivalent.			16	No.				
	8. Dielectric testing set for insulating oil as specified.			04	No.				
	9. Earth resistance testing set of Megger UK or approved Equivalent.			04	No.				
	10. SF6 Gas leak detector complete with accessories.			04	No.				
	11. Temporary earthing device for 220 kV and 132 kV Switchyards.			08	No.				
	12. Selective level meter, including battery set and adapter.			04	No.				
	13. Level generator including battery set.			04	No.				
	14. Service Engineer's Tool Kit (Attach details of all equipment with unit prices)			04	No.				
	15. Circuit breaker analyzer Programme make, type TM-1600 as required or approved equivalent.			04	No.				
	16. Contact resistance measurement test set programme type micro ohmmeter MOM 200A or approved equivalent.			04	No.				
	17. Clip on current transformer small size with 1000/1A ratio as specified.			08	No.				
	18. C & DF test set as specified of Megger UK or Equivalent.			04	No.				
	19. Test equipment for verification of magnetization characteristics of CTs as specified of Megger UK or Equivalent.			04	No.				
	20. Portable phase shifter unit as specified.			04	No.				
	21. CT and VT polarity tester as specified.			04	No.				
	22. Test Leads complete with banana plugs								
	- long length leads			160	No.				
	- medium length leads			160	No.				
	- jumper leads			80	No.				
	23. Hi-Pot Test Set (A.C) as specified of Megger UK			08	Set				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	or Equivalent								
24.	Hi-Pot Test Set (D.C) as specified of Megger UK or Equivalent			04	Set				
25.	Moveable Scaffolding: Height: 32 ft.			04	No.				
26.	Digital & micro processor based energy meters (Alpha make) Test set			04	No.				
27.	Winding/Oil Thermometer Test Set			04	No.				
28.	Dew point test/SF6 Gas Purity Test Set.			04	Set				
29.	Clip on meter with provision of measuring power factor frequency and phase angle.			04	No.				
30.	Erection and maintenance equipment and tools for 220/132KV and 132/11.5 KV transformers as specified			04	Set				
31.	Erection and maintenance equipment and tools for SF6 circuit breakers of each type used as specified			04	Set				
32.	Universal relay test set OMICRON 256 or approved equivalent			04	Set				
33.	Single phase variac as specified			04	Set				
34.	Three phase variac as specified			04	Set				
35.	Battery ground test set multiamp BGL or approved equivalent			04	No.				
36.	Battery test system TORREL 840 complete with extra load TXL870 software or equivalent			04	No.				
37.	Digital low resistance ohm meter for measuring transformer resistance			04	Set				
38.	Single Phase TTR test set Megger type 55005 or approved equivalent			04	Set				
39.	Microprocessor based universal relay testing set as specified of Megger UK or Equivalent.			04	Set				
40.	Sweep frequency response analyzer as specified			04	Set				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.
Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 8: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15
Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.

Column 10: Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Within The Purchaser's Country

LOT-IX
(220& 132 kV Control & Power Cables)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1.	Control cables as per NTDC/ WAPDA specification P100:05								
a)	4 x 2.5 mm ²			288	KM				
b)	8x2.5 mm ²			414	KM				
c)	16 x 2.5 mm ²			322	KM				
d)	4 x 6 mm ²			196	KM				
e)	2x16 mm ²			2.5	KM				
f)	1X50 mm ²			2.5	KM				
g)	1X185 mm ²			3.0	KM				
h)	1x120 mm ²			1.5	KM				
i)	4x16 mm ²			1.5	KM				
j)	1x2.5 mm ²			14	KM				
2.	Power Cables								
a)	15,000 Volts, 500MCM Single Core Power Cable as per NTDC/ WAPDA Specification P-29:10.			1840	Meter				
b)	15,000 Volts, 4/0AWG 3-Core Power Cable as per NTDC/ WAPDA Specification P-29:10			690	Meter				
3.	15kV Termination Kits as per NTDC specification P-184:86								
a)	Outdoor termination kit for 500MCM single core Cable.			28	Nos.				
b)	Indoor termination kit for 500MCM single core Cable.			28	Nos.				
c)	15kV, 4/0AWG Indoor Termination Kits as per NTDC specification			9	Nos.				

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
d)	15kV, 4/0AWG Outdoor Termination Kits as per NTDC specification			9	Nos.				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.
Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 8: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15
Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.

Column 10: Payable in the Purchaser’s country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Within The Purchaser's Country

LOT-X
(220&132 kV Gantries)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
	Steel Structure as per NTDC/ WAPDA Specification P-139:80, P82:81, P19:83 and attached Drawings								
1.	220kV Beams (for Hawthorn Conductor)								
i)	16 m			56	No.				
ii)	18.5 m			50	No.				
2.	220kV Columns (for Hawthorn Conductor)								
i)	18.5 + 4 m			52	No.				
ii)	13 + 5.5 + 4 m			46	No.				
iii)	13 m			32	No.				
3.	132 kV Beams (for Hawthorn)								
i)	12 m (Single Conductor)			36	No.				
ii)	12 m (double conductor)			48	No.				
4.	132 kV Columns (for Hawthorn)								
i)	13.8 + 3.1 m			74	No.				
ii)	10 + 3.1 m			48	No.				
iii)	11kV Structure, 4m long			5	No.				
iv)	Earthing Mast			5	No.				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.

	Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.
Column 8:	Incoterm in accordance with ITB Clause 14 Currency in accordance with ITB Clause 15 Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.
Column 10:	Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Within The Purchaser's Country

LOT-XI

(132/11.5 kV Power Transformer, 11kV Transformers, Diesel Generator)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1	Power Transformer 132/ 11.5kV, 10/13 MVA, 3-phase with bushings having extended creepage distance complete with On Load Tap Changer OLTC (MR Germany make or equivalent), indoor auxiliary control panel& outdoor control cubicle, HV terminal connector for 1x600mm ² conductor, LV terminal connector for Aluminum Pipe (40mm dia), Aluminum Pipe alongwith mounting arrangement, 11kV Post Insulator, 11kV Surge Arrestors etc. and all other allied accessories as per WAPDA/NTDC specification P-46:08.			04	Nos.				
1.1	A complete set of Mandatory Spare Parts for 10 No. transformers as per clause 17.7 of P-46:2008.			01	Lot				
2	11.5/ 0.415 kV, 200kVA Pad Mounted Transformer (Alternate-III) along with accessories as per NTDC specification P-41 amended to date.			09	Nos.				
3	100 kVA, 415 V Standby Diesel Generator along with automatic changeover switch and all other accessories as per NTDC/Wapda Spec P-161:81.			04	Nos.				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.

	Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.
Column 8:	Incoterm in accordance with ITB Clause 14 Currency in accordance with ITB Clause 15 Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.
Column 10:	Payable in the Purchaser's country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Within The Purchaser's Country

LOT-XII

(220 & 132 kV Surge Arrestors and Post Insulators)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of Origin	Domestic Value Added in Percent	Quantity	Unit of Measurement	Unit Price EXW	Total EXW Price per item	Sales and Other Taxes Per Item	Total Price per Item including Taxes
							5 x 7		8 + 9
1.	198kV Surge Arrester								
1.1	Line Surge Arrestors 198 kV with bushings having extended creepage distance and terminal head (vertical type, 80mm in length, 30mm dia and tin or silver plated copper) complete with surge counters/monitor, steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-181:12, P-19:83, P139:80, P82:81, P182:91 (Total height of Surge Arrester + Steel Supporting Structure shall be 5.5 m)			41	No.				
1.2	Transformer Surge Arrester 198 kV, with bushings having extended creepage distance and terminal head (vertical, 80mm in length, 30mm dia and tin or silver plated copper) complete with surge counters/monitor, steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-181:12, P-19:83, P139:80, P82:81, P182:91 (Total height of Surge Arrester + Steel Supporting Structure shall be 8 m).			34	No.				
2.	120kV Surge Arresters								
2.1	120kV Surge Arrester with surge counter/ monitor, steel supporting structure, having bushings with extended creepage distance and terminal head (vertical, 80mm in length, 30mm dia of high strength Al Alloy), complete with surge counters/ monitor, steel supporting structure, anchor bolts, etc and all			48	No.				

	other allied accessories as per WAPDA/NTDC specification P-181:12, P-19:83, P139:80, P82:81,P182:91.								
3.	245kV Post Insulators								
3.1	245kV Post insulator stacks, IEC type designation C10-1050 complete, steel supporting structure having bushings with extended creepage distance, anchor bolts, steel supporting structure and all other allied accessories as per IEC 60273 & NTDC Specifications P-19:83, P139:80, P82:81, P182:91			174	No.				
4.	145kV Post Insulators								
4.1	145kV Post insulator stacks, IEC type designation C8-650 complete, steel supporting structure having bushings with extended creepage distance and anchor bolts.(as per IEC 60273 & NTDC Specifications P-19:83, P139:80, P82:81, P182:91)			126	No.				
Total Amount									

Notes:

Column 4: In accordance with margin of preference ITB Clause 35, if applicable.
Domestic Value Added comprises domestic labor, the domestic content of materials, domestic overheads and profits from the stage of mining the raw material until final assembly.

Column 8: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15
Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the custom duties and sales and other taxes already paid on previously imported items.

Column 10: Payable in the Purchaser’s country if Contract is awarded

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Outside The Purchaser's Country

LOT-I

(220kV Circuit Breakers)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
1.	245kV Circuit Breaker (Specification P-171:08)							
1.1	245kV, M2 Type, 3-phase, 2000 A (220V DC), 40kA 3 sec, SF6 Circuit Breakers with bushings having extended creepage distance and terminal head (flat, 125mm x 125mm, tin plated or silver plated copper) along with steel supporting structures, anchor bolts, etc as per specifications P-171:08, P-19:83, P139:80, P82:81, P182:91		Set	40				
1.2	Mandatory Spare parts as per clause 15.7 of P-171:08 (bidder shall attaché the list alongwith price break down)		Lot	1				
Total Amount								

Notes:

Column 6 and 7: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

**Price Schedule For Goods
To Be Offered From Outside The Purchaser's Country**

LOT-II

(132kV Circuit Breakers)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measure ment	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
1.	145kV Circuit Breaker (Specification P-193:10)							
1.1	145kV, 2000A, 40kA 3sec, M-2 Type, 110V DC, three pole with bushings having extended creepage distance terminal head (flat, 125mm x 125mm, thickness 16mm, tin plated or silver plated copper), steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-193:10, P-19:83, P139:80, P82:81, P182:91		Sets	53				
1.2	Mandatory Spare parts as per clause 16 of P-193:10 (bidder shall attach the list alongwith price break down).		Lot	1				
Total Amount								

Notes:

Column 6 and 7: Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Outside The Purchaser's Country

LOT-III
(220 kV Isolators)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
1.	245kV Isolators (Specification P-173:83)							
1.1	Bus Isolators (without earthing switch), 2000A, M2 Type, 40kA 3 sec, 3-phase, 220VDC motor operated alternating current bus Disconnecter with bushings having extended creepage distance and terminal head (vertical, 125mm in length, 60mm in dia, tin plated or silver plated copper) complete with steel supporting structures, anchor bolts, earthing platforms, etc and all other accessories as per WAPDA specification P-173-83, P-19:83, P139:80, P82:81, P182:91, P135:80.		Sets	90				
1.2	Mandatory Spare Parts as per clause 10 of P-173:83 for item 1.1 (bidder shall attach the list alongwith price break down)		Lot	1				
1.3	Line Isolators (with earthing switch), 2000A, M2 Type, 40kA 3 sec, 3-phase, 220VDC motor operated alternating current bus Disconnecter with bushings having extended creepage distance and terminal head (vertical, 125mm in length, 60mm in dia, tin plated or silver plated copper) complete with steel supporting structures, anchor bolts, earthing platforms, etc and all other accessories as per WAPDA specification P-173-83, P-19:83, P139:80, P82:81, P182:91, P135:80.		Sets	14				
1.4	Mandatory Spare Parts as per clause 10 of P-173:83		Lot	1				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	for item 1.3(bidder shall attach the list alongwith price break down)							
Total Amount								

Notes:
 Column 6 and 7 : Incoterm in accordance with ITB Clause 14
 Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods
To Be Offered From Outside The Purchaser's Country
 Lot-IV
 (132 kV Isolators)

Name of Bidder _____ IFB Number _____ Page 1 of 3

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
1.	145kV Isolators (Specification P-128:11)							
1.1	Bus Isolator (without earthing switch), 145kV, 2000 A, 40kA 3sec, M-1 Type, three pole (Serial Arrangement) 110V DC motor operated with bushings having extended creepage distance and terminal head (flat, 125mm x 125mm, 16mm thickness, High strength Al Alloy), alongwith steel supporting structure, earthing platform, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-128:11, P-19:83, P139:80, P82:81 P182:91,P135:80.		Set	104				
1.2	Bus Isolator (without earthing switch), 145kV, 2000 A, 40kA 3sec, M-1 Type, three pole, (Parallel Arrangement) 110V DC motor operated with bushings having extended creepage distance and terminal head (flat, 125mm x 125mm, 16mm thickness, High strength Al Alloy), alongwith steel supporting structure, earthing platform, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-128:11, P-19:83, P139:80, P82:81 P182:91,P135:80.		Set	14				
1.3	Line Isolator (with motor operated earthing switch), 145kV, 2000A, 40kA 3sec, M-1 Type, three pole, (Parallel Arrangement) 110V DC motor operated with		Set	33				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	bushings having extended creepage distance and terminal head (flat, 125mm x 125mm, 16mm thickness, High strength Al Alloy), , steel supporting structure, earthing platform, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-128:11, P-19:83, P139:80, P82:81, P182:91,P135:80.							
2.	Mandatory Spares Parts							
2.1	Spare Parts for item 1.1,1.2 and 1.3							
	i. 3-phase set of male and female contacts for disconnectors for 2000A Disconnector		Set	16				
	ii. 3-phase set of male and female contacts for earthing switches for 2000 A Disconnector		Set	16				
	iii. Motor operated mechanism complete		Set	16				
	iv. Pedestal insulators for 145 kV disconnectors		Set	16				
	v. Auxiliary switches for earthing switches		Set	16				
	vi. Auxiliary switches for disconnectors		Set	16				
	vii. Motor of each type used		No.	16				
	viii. Heater		No.	16				
	ix. Limit switches		Set	16				
	x. Thermal Relay (thermo + humidity)		No.	16				
	xi. Contactor and fuses of each type used		Set	16				
	xii. Resistor, diodes and switches		Set	16				
	xiii. Motor clutch		No.	16				
	xiv. Motor brake		No.	16				
Total Amount								

Notes:

Column 6 and 7 : Incoterm in accordance with ITB Clause 14

Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Outside The Purchaser's Country

Lot-V

(220&132kV Instrument Transformers)

Name of Bidder _____ IFB Number _____ Page 1 of 6

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
1.	245kV Current Transformers (P-174:05)							
1.1	245 kV Current Transformers, single pole, 40 kA 3 sec, 4 core of current ratio 2400:1200:600/1A having tapping at secondary (i.e. CT ratio adjustable from secondary side, no series or parallel connection adjustment on primary side) with bushings having extended creepage distance and terminal head (Horizontal type, 60mm dia, 125mm in length, silver or tin plated copper) complete with marshalling boxe (1 for each set of 3 No. CTs), anchor bolts, steel supporting structure, etc and all other allied accessories as per WAPDA/NTDC specification, P-174:08, P-19:83, P139:80, P82:81, P182:91.		No.	152				
2.	245kV CVT/CCVT							
2.1	220 kV Coupling capacitor voltage transformer (CCVT), Single pole, 2 core, 220/V3kV / 110/V3V ,110/V3V voltage ratio, min.6000pF with bushing having extended creepage distance and terminal head (vertical type, 80mm in length, 30mm dia, tin or silver plated copper) , complete with marshalling boxe (1 for each set of 3 No. CCVTs), power line carrier coupling facilities, steel supporting structure, anchor bolts, etc and all other allied accessories as		No.	28				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	per WAPDA/NTDC specification P-Draft,P-19:83,P-139:80,P-82:81,P-182:91.							
2.2	Mandatory Spare Part for item 2.1 as per clause 10.7 of P-172:83(bidder shall attaché the list alongwith price break down).		Lot	1				
2.3	220 kV Capacitor voltage transformer (CVTs), Single pole, 2 core, 220/ $\sqrt{3}$ kV / 110/ $\sqrt{3}$ V / 110/ $\sqrt{3}$ V voltage ratio with bushings having extended creepage distance and terminal head (vertical type, 80mm in length, 30mm dia, tin or silver plated copper), complete with marshaling box (1 for each set of 3 No. CVTs), steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-172:83, P-19:83, P139:80, P82:81, P-182:91.		No.	49				
2.4	Mandatory Spare Part for item 2.3 as per clause 10.7 of P-172:83(bidder shall attaché the list alongwith price break down).		Lot	1				
3.	145kV Current Transformer							
3.1	145kV Current Transformers, single pole, 40kA 3 sec, 4-core of current ratio 1600:800:400/1A having tapping at secondary (i.e. CT ratio adjustable from secondary side, no series or parallel connection adjustment on primary side) complete with bushings having extended creepage distance and terminal head (Horizontal stud type, 125mm in length & 40mm dia, tin or silver plated copper), complete with marshaling box (1 for each set of 3 No. CTs), anchor bolts, steel supporting structure, etc and all other allied accessories as per WAPDA/NTDC specification P-90:12, P-19:83, P139:80, P82:81, P182:91.		No.	159				
3.2	145kV Current Transformers, single pole, 40kA 3 sec, 4-core of current ratio 100:200/1A ratio having tapping at secondary (i.e. CT ratio adjustable from		No.	14				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	secondary side, no series or parallel connection adjustment on primary side) complete with bushings having extended creepage distance and terminal head (stud type, 125mm in length & 40mm dia, tin or silver plated copper), complete with marshaling box (1 for each set of 3 No. CTs), anchor bolts, steel supporting structure, etc. and all other allied accessories as per WAPDA/NTDC specification P-90:12, P-19:83, P139:80, P82:81, P182:91							
3.3	145kV Metering Current transformer, single pole, 40kA 3sec, 1-core of current ratio 1200:600/1A ratio having tapping at secondary (i.e. CT ratio adjustable from secondary side, no series or parallel connection adjustment on primary side) complete with bushings having extended creepage distance and terminal head (horizontal / stud type, 125mm in length & 60mm dia, tin or silver plated copper), marshaling box (1 for each set of 3 No. CTs), steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/ NTDC specification P-205,P-19:83, P139:80, P82:81, P182:91		No.	34				
4	145kV Potential Transformers							
4.1	145kV Voltage transformer, single pole, 2-core of voltage ratio 145/ $\sqrt{3}$ / 0.11/ $\sqrt{3}$ / 0.11/ $\sqrt{3}$ kV with bushing having extended creepage distance and terminal head (stud type, 80mm in length and 30mm in dia, silver or tin plated copper) complete with marshaling box (1 for each set of 3 No. VTs), steel supporting structure, anchor bolts and all other allied accessories as per WAPDA/NTDC specification P-129:11, P-19:83, P139:80, P82:81, P-182:91		No.	28				
4.2	145kV Metering Voltage transformer, single pole, 1-core 145/ $\sqrt{3}$ / 0.11/ $\sqrt{3}$ kV ratio with bushing having extended creepage distance and terminal head (stud		No.	34				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	type, 80mm in length and 30mm in dia, silver or tin plated copper) complete with marshaling box (1 for each set of 3 No. VTs), steel supporting structure, anchor bolts and all other allied accessories as per WAPDA/ NTDC specification P-206,P19:83,P139:80,P82:81, P182:91							
Total Amount								

Notes:

Column 6 and 7 : Incoterm in accordance with ITB Clause 14
 Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

**Price Schedule For Goods
To Be Offered From Outside The Purchaser's Country**

Lot-VI

(220/132 kV, 250 MVA Auto-Transformers)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
1.	220/132/11kV, 250 MVA, 3-Phase, Auto-transformer as per P-169:09 with bushings having extended creepage distance complete with indoor & outdoor control cubicles, tertiary interconnections and Grounding Arrangement, neutral grounding system, terminal connectors for connection with Hawthorn conductor (2x600mm ²) on HV/LV Side, On Load Tap Changer OLTC (MR Germany make or equivalent) and all other allied accessories as specified.		No.	10				
2	Spare Parts as per clause 17 of P-169:2009(bidder shall provide the list alongwith price breakdown of spare parts)		Lot	1				
3.	Nitrogen injection explosion prevention and fire protection system (sergi France or equivalent) for autotransformer bank complete along with all accessories including support pipes, foundation drawings, etc. and as specified. Erection supervision of the said system shall also be the part of the scope.		No.	10				
4.	Supervision of erection testing and commissioning of Auto Transformers & Nitrogen injection explosion prevention and fire protection system as per Price		Lot	1				

	Schedule for Related Services to be offered from outside & within the purchaser's country.							
							Total Amount	

Notes:

Column 6 and 7 : Incoterm in accordance with ITB Clause 14
 Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Outside The Purchaser's Country

Lot-VII

(Grid Station Hardware)

Name of Bidder _____ IFB Number _____ Page 1 of 5

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
1	Tension String Assemblies							
1.1	220 kV double tension string assemblies complete with accessories with 2x15 Nos. 100 kN Disc insulators, Al. Alloy conductor 400 mm apart for 2x600 mm ² Hawthorn as per NTDC/WAPDA specifications P-Draft, P-8:96.							
a)	With turn buckle		Set	166				
b)	Without turn buckle		Set	166				
1.2	132kV, double tension string assembly for 2x600mm ² (Hawthorn) conductor alongwith 2x10 Nos. disc insulators, 100kN complete with hardware and allied accessories as per NTDC/WAPDA spec P-Draft,P8:96							
a)	With turnbuckle		Set	117				
b)	Without turnbuckle		Set	117				
1.3	132kV, single tension string assembly for 1x600mm ² (Hawthorn) conductor alongwith 10 Nos. disc insulators, 100 kN complete with hardware and allied accessories as per NTDC/WAPDA spec P-Draft,P8:96							
a)	With turnbuckle		Set	57				
b)	Without turnbuckle		Set	57				
2	Suspension String Assemblies							
2.1	220 kV double suspension string assemblies complete with accessories with 2x15 Nos. Disc		Set	173				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	insulators 100 kN, Al. Alloy conductor 400 mm apart for 2x600 mm ² Hawthorn as per NTDC/WAPDA specifications P-Draft, P-8:96.							
2.2	132kV, double suspension string assembly for 2x600mm ² (Hawthorn) conductor alongwith 2x10 Nos. disc, 100kN insulators complete with hardware and allied accessories as per NTDC/WAPDA spec P-Draft,P8:96		Set	62				
2.3	132kV, single suspension string assembly for 1x600mm ² (Hawthorn) conductor alongwith 1x10 Nos. disc, 100kN insulators complete with hardware and allied accessories as per NTDC/WAPDA spec P-Draft,P8:96		Set	28				
3	Tension assembly for 9mm Earth wire for fitting complete with all accessories as per NTDC/Wapda specification No. P-141:80.		Set	395				
4	Aluminum Pipe							
4.1	Aluminum Alloy Pipe having outer dia 88.90 mm, (3''), 12 m long, as per NTDC/WAPDA specification P-134:80		meter	4320				
5	Connectors							
5.1	132kV Connectors							
	1. TDMHH(2x600) (2x600)		No.	290				
	2. TDMHH(2x600) (1x600)		No.	200				
	3. TMHH		No.	160				
	4. TMRH		No.	110				
	5. SH-400		No.	450				
	6. SH-200		No.	500				
	7. PGHH		No.	100				
	8. OMH30		No.	36				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	9. ODBH60		No.	72				
	10. OBH30		No.	36				
	11. ODBH40		No.	130				
	12. ODBHF		No.	110				
	13. ODMHF		No.	165				
	14. 45DMHF		No.	50				
	15. 90DMHF		No.	40				
	16. 90BH30		No.	30				
	17. 90MHF		No.	175				
	18. 0MHF		No.	390				
	19. 0BH40		No.	230				
	20. 0BHF		No.	230				
	21. 45MHF		No.	90				
	22. BSH		No.	50				
	23. TMH30		No.	14				
5.2	220kV Connectors							
	1. TDMHH(2x600) (2x600)		No.	285				
	2. TDMRH		No.	43				
	3. TMHH		No.	40				
	4. SH-400		No.	220				
	5. SH-200		No.	650				
	6. BSP3.0		No.	145				
	7. TDMPH3.0		No.	175				
	8. 90DBH60		No.	190				
	9. 90BEP3.0,60		No.	375				
	10. 90BP3.0,60		No.	130				
	11. 0BEP3.0,F		No.	130				
	12. 0BP3.0,F		No.	130				
	13. 0BEP3.0,60		No.	175				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	14. OBP3.0,60		No.	175				
	15. TBP3.0,30		No.	30				
	16. TDBH30		No.	122				
	17. 90BH30		No.	10				
	18. ODMPH3.0		No.	10				
	19. PGHH		No.	50				
6.	All Aluminum Conductor							
a)	600 mm ² Hawthorn Conductor as per NTDC/WAPDA specification P-63:2007.		Meter	45,000				
7.	Copper Conductor							
	120mm ² copper conductor as per NTDC/WAPDA specification P-16:68.		Meter	60,000				
8.	Overhead Shield wire.							
	9 mm (7/3.0 mm) dia Galvanized Steel wire as per NTDC / WAPDA specification P-12:80.		KM	14				
9.	Earthing Rod 16mm dia, 3 m long as per NTDC specification P-116:81.		Nos.	750				
10.	Copper(tin coated) thimble lug for 120mm ² grounding conductor along with fixing arrangements(nut, bolt & washers)		Nos.	7,000				
10.	Earthing Material for Jointing as per NTDC specification P-114:82 for 120mm² copper conductor.		KM	62				
11.1	Cartridges							
a)	G		No.	5,000				
b)	H		No.	2250				
c)	I		No.	1750				
11.2	Moulds							
a)	G		No.	75				
b)	H		No.	46				
c)	I		No.	40				
Total Amount								

Notes:
Column 6 and 7 : Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Outside The Purchaser's Country

Lot-VIII

(220&132 kV Control Panels, Relay Panels, Auxiliary Services Panels & Erection & Testing Equipment)

Name of Bidder _____ IFB Number _____ Page 1 of 9

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
1	220kV Control Panels as per NTDC Specification P-191:2007							
i)	Line and Auto transformer control panel type C1		Nos.	12				
ii)	Synchronizing Panel type C6 (including manual synchronizing closing of 132kV bus coupler circuit breaker)		Nos.	04				
2	220kV Relay Panels as per NTDC Specification P-191:2007							
i)	Distance protection relay panel (Set-I) type R1		Nos.	12				
ii)	Distance protection relay panel (Set-II) type R2		Nos.	12				
iii)	Transformer protection relay panel (Set-I) type R3		Nos.	10				
iv)	Transformer protection relay panel (Set-II) type R4		Nos.	10				
v)	Breaker failure protection relay panel type R5 (without 132kV Breaker failure relay)		Nos.	12				
vi)	Trip circuit supervision relay panel type R6 (with trip circuit supervision relays for 132kV Circuit Breaker)		Nos.	12				
viii)	220kV relay panel R7 for Bus-I & Bus-II with Low impedance bus bar (de-centralized) or high bus bar protection selecting all CTs with same CT ratios.		Nos.	04				
3	220kV Marshaling Kioskas per NTDC Specification P-191:2007							
i)	Marshaling Kiosks Type S1 (for Bus-I side CBs)		Nos.	12				
ii)	Marshaling Kiosks Type S2 (for Bus-II side CBs)		Nos.	10				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
iii)	Marshaling Kiosks Type S3(for Mid side CBs)		Nos.	12				
4	132kV Control Panels as per NTDC Specification P-191:2007							
i)	Line Control Panel CP-31 with Energy Meter of accuracy class 0.5S (P-202:2012 for energy meters)		Nos.	28				
ii)	Transformer Control Panel CP-51		Nos.	04				
iii)	Bus Coupler Control Panel CP-40		Nos.	04				
5.	132kV Relay Panels as per NTDC Specification P-191:2007							
i)	Bus Coupler Relay Panel RP-1		Nos.	04				
ii)	Line Relay Panel RP-3 (including auto reclosing relay)		Nos.	28				
iii)	Transformer Relay Panel RP-4		Nos.	04				
iv)	132 kV Low Impedance Bus bar-I & II Protection Panel (RP6) with built-in feature of Breaker Failure Protection for all 132kV CBs of Line, Transformer & Bus Coupler Bays		Nos.	04				
6.	132kV Marshaling Kiosk as per NTDC Specification P-191:2007							
i)	Type S0 (for 220/132kV Auto-Transformer)		Nos.	10				
ii)	Type S1 (for 132kV Lines)		Nos.	28				
iii)	Type S2 (for 132/11kV Power Transformer)		Nos.	04				
iv)	Type S3 (for Bus Coupler)		Nos.	04				
7.	Metering Panels with Energy meters as per P-199:08 & P-202:12							
i)	220kV Energy Meter Panel(without AC Power Transducers and paperless recorder) alongwith Energy meters(accuracy class 0.2S) for 220kV Line metering							
	a) 4-Line metering panel		Nos.	02				
	b) 2-Line metering panel		Nos.	02				
ii)	132kV Metering Panel (without AC Power Transducers and paperless recorder) with energy meters for Energy transfer metering							
	a) 3-Line metering Panel		Nos.	02				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	b) 2-Line metering Panel		Nos.	02				
	c) Data Communication cubicle including but not limited to Optical Probe, RS232 lead, RS485 to Ethernet Converter, RS485 to RS232 Converter, RS485 to PSTN Converter/Modem, RS485 to GSM/GPRS Converter/Modem with GSM Antenna.		Nos.	04				
8.1	AC/DC Auxiliary Supply Panels (As per NTDC Specification P-48:81)							
i)	220V DC-I & II Auxiliary Supply Panels with both manual & automatic change over facility as per NTDC Specification		Sets	05				
ii)	110V DC-I & II Auxiliary Supply Panels with both manual & automatic change over facility as per NTDC Specification		Sets	05				
iii)	415/240V AC-I & II Auxiliary Supply Panels with both manual & automatic change over facility along with emergency bus bar for 100kVA Diesel Generator Set		Sets	09				
8.2	Battery Bank							
i)	Lead acid battery bank, 220V, 300AH complete with accessories as per specification P-132.		Nos.	08				
ii)	Lead acid battery bank, 110V 150AH complete with accessories as per NTDC specification P-132		Nos.	08				
8.3	Battery Charger							
i)	Automatic static battery charger 220V, 40A complete with accessories as per NTDC Specification P-133.		Nos.	09				
ii)	Automatic static battery charger 110V, 25A 40A complete with accessories as per NTDC Specification P-133.		Nos.	09				
8.4	11kV Switchgear							
i)	11kV Metal clad Incoming panel as per NTDC spec P-44		Nos.	04				
ii)	11kV Metal clad Outgoing panel as per NTDC spec P-44.		Nos.	09				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
9.	Miscellaneous Panels as per NTDC Specification P-191:2007							
i)	Event Recorder Panel		Nos.	04				
ii)	Fault Recorder / Automatic Transient Recording Oscillograph for complete 220kV & 132kV system of Grid Station		Nos.	04				
10	Mandatory Spare Parts							
i)	Event Recorder:							
	a. Plug-in modules at least one of each type used		Set	04				
	b. Fuses of each type used		Set	120				
	c. Rolls of paper with accessories, complete		No.	200				
	d. Printer cartridge / ribbon		No.	200				
	e. One MCB's of each type used in control circuit etc		Set	04				
ii)	Oscillograph:							
	a. Plug-in modules at least one of each type used		Set	04				
	b. Fuses of each type used		Set	80				
	c. Rolls of paper with accessories, complete		Set	200				
	d. Printer cartridge / ribbon		Set	120				
	e. Indicating lamps of each type used		No.	120				
	f. One MCB's of each type used.		Set	04				
iii)	Relay Boards and Relays:							
	Line Protection Relays:							
	a. 220kV Distance or Line Differential Relay Set-I relay of each type used		No.	04				
	b. 220kV Distance or Line Differential Relay Set-II relay of each type used		No.	04				
	c. 132kV Distance or Line Differential Relay of each type used		No.	04				
	d. 220kV O/C & E/F relay of each type used		No.	04				
	e. 132kV O/C & E/F relay of each type used		No.	04				
	f. All other auxiliary relays miscellaneous relays, and accessories of each type used. (minimum 10% of installed quantity).		Lot	04				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	Transformer Protection Relays:							
	a. Transformer differential relays of each type used		No.	04				
	b. REF relay of each type used		No.	04				
	c. Overall %age Biased Differential Protection relay of each type used		No.	04				
	d. HV Connection protection relay of each type used		No.	04				
	e. LV Connection protection relay of each type used		No.	04				
	f. HV O/C & E/F relay of each type used		Lot	04				
	g. LV O/C & E/F relay of each type used		No.	04				
	h. Neutral O/C relay of each type used		No.	04				
	i. Tertiary O/C relay of each type used		No.	04				
	j. Thermal Over Load relay of each type used		No.	04				
	k. Over fluxing relay of each type used		No.	04				
	l. All other auxiliary relays miscellaneous relays, and accessories of each type used. (minimum 10% of installed quantity).		Lot	04				
	Miscellaneous Protection Relays:							
	a. 220kV Breaker Failure relay of each type used		No.	08				
	b. 220kV BB Protection relay of each type used		No.	04				
	c. 132kV BB Protection relay of each type used		No.	04				
	d. Synchronism check relay of each type used		No.	04				
	e. Trip circuit supervision relay (220VDC) of each type used		No.	16				
	f. Trip circuit supervision relay (110VDC) of each type used		No.	12				
	g. High speed, high burden self reset trip relay (220VDC) of each type used (8 NO + 2 NC)		No.	16				
	h. High speed, high burden self reset trip relay (110VDC) of each type used (8 NO + 2 NC)		No.	04				
	i. High speed, high burden Trip & Lock out relay (220VDC) of each type used (8 NO + 2 NC) or (18 NO + 2 NC)		No.	48 or 24				
	j. High speed, high burden Trip & Lock out relay (110VDC) of each type used (8 NO + 2 NC)		No.	08				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	k. Auxiliary relays consisting each type used (minimum 10% of installed quantity)		Lot	04				
	l. Test plug for relays and meters, one of each type used (minimum 10% of installed quantity)		Lot	04				
	m. Supervision relays for DC supply (220VDC) one of each type used		No.	04				
	n. Supervision relays for DC supply (110VDC) one of each type used		No.	04				
	o. Over current and ground fault relay for 132kV bus coupler one of each type used		No.	04				
	p. Laptop computer alongwith accessories		No.	04				
	q. Desktop computer alongwith accessories		No.	04				
	r. Laser Jet Printer alongwith accessories		No.	04				
11	Design & preparation of all schematic & interconnection drawings and installation testing and commissioning of control, protection & metering panels for four (4) No. 220/132 kV AIS Substations as per Price Schedule for Related Services to be offered from outside & within the purchaser's country.		Lot	01				
12	Erection & Testing Equipment and Maintenance Tools							
	1. Phase sequence indicator as specified of Megger UK or approved Equivalent.		No.	04				
	2. Primary current injection test sets specified of Megger UK or approved Equivalent.		No.	04				
	3. Secondary injection relay test set as specified of Megger UK or approved Equivalent.		No.	04				
	4. Digital phase angle meter as specified of Megger UK or approved Equivalent.		No.	04				
	5. HV insulation resistance tester as specified of Megger UK or approved Equivalent.		No.	04				
	6. Standard multi-range multi-meter as specified of Megger UK or approved Equivalent.		No.	16				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
	7. Clip on ammeter/voltmeter as specified of Megger UK or approved Equivalent.		No.	16				
	8. Dielectric testing set for insulating oil as specified.		No.	04				
	9. Earth resistance testing set of Megger UK or approved Equivalent.		No.	04				
	10. SF6 Gas leak detector complete with accessories.		No.	04				
	11. Temporary earthing device for 220 kV and 132 kV Switchyards.		No.	08				
	12. Selective level meter, including battery set and adapter.		No.	04				
	13. Level generator including battery set.		No.	04				
	14. Service Engineer's Tool Kit (Attach details of all equipment with unit prices)		No.	04				
	15. Circuit breaker analyzer Programme make, type TM-1600 as required or approved equivalent.		No.	04				
	16. Contact resistance measurement test set programme type micro ohmmeter MOM 200A or approved equivalent.		No.	04				
	17. Clip on current transformer small size with 1000/1A ratio as specified.		No.	08				
	18. C & DF test set as specified of Megger UK or Equivalent.		No.	04				
	19. Test equipment for verification of magnetization characteristics of CTs as specified of Megger UK or Equivalent.		No.	04				
	20. Portable phase shifter unit as specified.		No.	04				
	21. CT and VT polarity tester as specified.		No.	04				
	22. Test Leads complete with banana plugs							
	- long length leads		No.	160				
	- medium length leads		No.	160				
	- jumper leads		No.	80				
	23. Hi-Pot Test Set (A.C) as specified of Megger UK		Set	08				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
	or Equivalent						5 x 6	5 x 7
	24. Hi-Pot Test Set (D.C) as specified of Megger UK or Equivalent		Set	04				
	25. Moveable Scaffolding: Height: 32 ft.		No.	04				
	26. Digital & micro processor based energy meters (Alpha make) Test set		No.	04				
	27. Winding/Oil Thermometer Test Set		No.	04				
	28. Dew point test/SF6 Gas Purity Test Set.		Set	04				
	29. Clip on meter with provision of measuring power factor frequency and phase angle.		No.	04				
	30. Erection and maintenance equipment and tools for 220/132KV and 132/11.5 KV transformers as specified		Set	04				
	31. Erection and maintenance equipment and tools for SF6 circuit breakers of each type used as specified		Set	04				
	32. Universal relay test set OMICRON 256 or approved equivalent		Set	04				
	33. Single phase variac as specified		Set	04				
	34. Three phase variac as specified		Set	04				
	35. Battery ground test set multiamp BGL or approved equivalent		No.	04				
	36. Battery test system TORREL 840 complete with extra load TXL870 software or equivalent		No.	04				
	37. Digital low resistance ohm meter for measuring transformer resistance		Set	04				
	38. Single Phase TTR test set Megger type 55005 or approved equivalent		Set	04				
	39. Microprocessor based universal relay testing set as specified of Megger UK or Equivalent.		Set	04				
	40. Sweep frequency response analyzer as specified		Set	04				
Total Amount								

Notes:

Column 6 and 7 : Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date ____

Price Schedule For Goods To Be Offered From Outside The Purchaser's Country

Lot-XI

(220 & 132 kV Control and Power Cables)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
1.	Control cables as per NTDC/ WAPDA specification P100:05							
a)	4 x 2.5 mm ²		KM	288				
b)	8x2.5 mm ²		KM	414				
c)	16 x 2.5 mm ²		KM	322				
d)	4 x 6 mm ²		KM	196				
e)	2x16 mm ²		KM	2.5				
f)	1X50 mm ²		KM	2.5				
g)	1X185 mm ²		KM	3.0				
h)	1x120 mm ²		KM	1.5				
i)	4x16 mm ²		KM	1.5				
j)	1x2.5 mm ²		KM	14				
2.	Power Cables							
a)	15,000 Volts, 500MCM Single Core Power Cable as per NTDC/ WAPDA Specification P-29:10.		Meter	1840				
b)	15,000 Volts, 4/0AWG 3-Core Power Cable as per NTDC/ WAPDA Specification P-29:10		Meter	690				
3.	15kV Termination Kits as per NTDC specification P-184:86							
a)	Outdoor termination kit for 500MCM single core Cable.		Nos.	28				
b)	Indoor termination kit for 500MCM single core Cable.		Nos.	28				
c)	15kV, 4/0AWG Indoor Termination Kits as per NTDC specification		Nos.	9				

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
							5 x 6	5 x 7
d)	15kV, 4/0AWG Outdoor Termination Kits as per NTDC specification		Nos.	9				
Total Amount								

Notes:
 Column 6 and 7 : Incoterm in accordance with ITB Clause 14
 Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Outside The Purchaser's Country

LOT-X
(220&132 kV Gantries)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (Karachi)	Unit Price FOB	Total Price CIF per Item	Total Price FOB per Item
								5 x 6
	Steel Structure as per NTDC/ WAPDA Specification P-139:80, P82:81, P19:83 and attached Drawings							
1.	220kV Beams (for Hawthorn Conductor)							
i)	16 m			56	No.			
ii)	18.5 m			50	No.			
2.	220kV Columns (for Hawthorn Conductor)							
i)	18.5 + 4 m			52	No.			
ii)	13 + 5.5 + 4 m			46	No.			
iii)	13 m			32	No.			
3.	132 kV Beams (for Hawthorn)							
i)	12 m (Single Conductor)			36	No.			
ii)	12 m (double conductor)			48	No.			
4.	132 kV Columns (for Hawthorn)							
i)	13.8 + 3.1 m			74	No.			
ii)	10 + 3.1 m			48	No.			
iii)	11kV Structure, 4m long			5	No.			
iv)	Earthing Mast			5	No.			
Total Amount								

Notes:

Column 6 and 7 : Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Outside The Purchaser's Country

LOT-XI

(132/11.5 kV Power Transformer, 11kV Transformers, Diesel Generator)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (...)	Unit Price FOB (...)	Total Price CIF per Item	Total Price FOB per Item
								5 x 6
1	Power Transformer 132/ 11.5kV, 10/13 MVA, 3-phase with bushings having extended creepage distance complete with On Load Tap Changer OLTC (MR Germany make or equivalent), indoor auxiliary control panel& outdoor control cubicle, HV terminal connector for 1x600mm ² conductor, LV terminal connector for Aluminum Pipe (40mm dia), Aluminum Pipe alongwith mounting arrangement, 11kV Post Insulator, 11kV Surge Arrestors etc. and all other allied accessories as per WAPDA/NTDC specification P-46:08.		Nos.	04				
1.1	A complete set of Mandatory Spare Parts for 10 No. transformers as per clause 17.7 of P-46:2008.		Lot	01				
2	11.5/ 0.415 kV, 200kVA Pad Mounted Transformer (Alternate-III) along with accessories as per NTDC specification P-41 amended to date.		Nos.	09				
3	100 kVA, 415 V Standby Diesel Generator along with automatic changeover switch and all other accessories as per NTDC/Wapda Spec P-161:81.		Nos.	04				
Total Amount								

Notes:

Column 6 and 7 : Incoterm in accordance with ITB Clause 14
Currency in accordance with ITB Clause 15

Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule For Goods To Be Offered From Outside The Purchaser's Country

LOT-XII

(220 & 132 kV Surge Arresters and Post Insulators)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7	8	9
Item	Description	Country of Origin	Unit of Measurement	Quantity	Unit Price CIF (...)	Unit Price FOB (...)	Total Price CIF per Item	Total Price FOB per Item
								5 x 6
1.	198kV Surge Arrester							
1.1	Line Surge Arrestors 198 kV with bushings having extended creepage distance and terminal head (vertical type, 80mm in length, 30mm dia and tin or silver plated copper) complete with surge counters/monitor, steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-181:12, P-19:83, P139:80, P82:81, P182:91 (Total height of Surge Arrester + Steel Supporting Structure shall be 5.5 m)		No.	41				
1.2	Transformer Surge Arrester 198 kV, with bushings having extended creepage distance and terminal head (vertical, 80mm in length, 30mm dia and tin or silver plated copper) complete with surge counters/monitor, steel supporting structure, anchor bolts, etc and all other allied accessories as per WAPDA/NTDC specification P-181:12, P-19:83, P139:80, P82:81, P182:91 (Total height of Surge Arrester + Steel Supporting Structure shall be 8 m).		No.	34				
2.	120kV Surge Arresters							
2.1	120kV Surge Arrester with surge counter/ monitor, steel supporting structure, having bushings with extended creepage distance and terminal head (vertical, 80mm in length, 30mm dia of high strength Al Alloy), complete with surge counters/ monitor, steel supporting structure, anchor bolts, etc and all		No.	48				

	other allied accessories as per WAPDA/NTDC specification P-181:12, P-19:83, P139:80, P82:81,P182:91.							
3.	245kV Post Insulators							
3.1	245kV Post insulator stacks, IEC type designation C10-1050 complete, steel supporting structure having bushings with extended creepage distance, anchor bolts, steel supporting structure and all other allied accessories as per IEC 60273 & NTDC Specifications P-19:83, P139:80, P82:81, P182:91	No.	174					
4.	145kV Post Insulators							
4.1	145kV Post insulator stacks, IEC type designation C8-650 complete, steel supporting structure having bushings with extended creepage distance and anchor bolts.(as per IEC 60273 & NTDC Specifications P-19:83, P139:80, P82:81, P182:91)	No.	126					
Total Amount								

Notes:
 Column 6 and 7 : Incoterm in accordance with ITB Clause 14
 Currency in accordance with ITB Clause 15

 Column 7: Only to be used if the Purchaser wishes to reserve transportation and insurance to domestic companies or other designated sources. Identification of the lowest evaluated bid must be on the basis of the CIF or CIP price, but the Purchaser may sign the contract on FOB or FCA terms and make its own arrangement for transportation and/or insurance.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-I
(220 kV Circuit Breakers)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	220kV Circuit Breakers and Spare Parts as per Price Schedule for Goods.		Lump sum			

Notes:

Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse (Gatti) Faisalabad, Pakistan.

Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse (Gatti) Faisalabad & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-II
(132 kV Circuit Breakers)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	145kV Circuit Breakers and Spare Parts as per Price Schedule for Goods.		Lump sum			

Notes:

Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse (Gatti) Faisalabad, Pakistan.

Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse (Gatti) Faisalabad & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-III
(220 kV Isolators)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	220kV Isolators and Spare Parts as per Price Schedule for Goods.		Lumpsum			

Notes:

Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse (Gatti) Faisalabad, Pakistan.

Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-IV
(132 kV Isolators)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	132 kV Isolators and Spare Parts as per Price Schedule for Goods.		Lumpsum			

Notes:

- Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse Multan, Pakistan.
 Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-V
(220&132kV Instrument Transformers)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	220&132kV Instrument Transformers, etc as per Price Schedule for Goods.		Lump sum			

Notes:

- Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse Multan, Pakistan.
 Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered from outside & within the Purchaser's Country

LOT-VI

(220/132 kV, 250 MVA Auto-Transformers)

Name of Bidder _____ IFB Number _____ Page 1 Of 2

1	2	3	4	5		6	
				Unit Price		Total Price per item	
Item No.	Description	Country of Origin	Quantity and Unit of Measurement	(a)	(b)	(a)	(b)
				Foreign Currency	Local Currency	Foreign Currency	Local Currency
						4x5(a)	4x5(b)
	<u>Supervision of erection testing and commissioning of Auto Transformers & Nitrogen injection explosion prevention and fire protection system</u>						
1.	Air ticket for round trip to the site (s) in Pakistan (in case of foreign bidder).		4 Round trip				
2.	Air ticket for round trip to the site (s) (in case of local bidder).		4 Round trip				
3.	Daily charges for stay including all boarding / lodging expenses.		28 Man Days				
Total Amount (to be carry forward to Price Schedule for Goods)							

Notes :

1. For the purpose of bid evaluation, the charges for services for supervision of erection will be based on 28 Man days. However, these charges will be paid according to actual number of round trips make and man-days consumed and the payment will be made on the basis of unit rates of the services actually rendered. The quantities shown in the schedule of prices are for estimation and tender comparison.

2. Column 5 and 6: Currencies in accordance with ITB Clause 15

Prices are to be quoted inclusive of all custom duties, sales and other similar taxes applicable in the Purchaser's country and payable on the Related Services, if the Contract is awarded to the Bidder

Name: _____

In the capacity of _____

Signed: _____

Duly authorized to sign the Bid for and on behalf of: _____

Date: _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-VI

(220/132 kV, 250 MVA Auto-Transformers)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1.	220/132/11kV, 250 MVA, 3-Phase, Auto-transformer along with accessories, spare parts and Nitrogen injection explosion prevention and fire protection system etc. as per Price Schedule for Goods.		10 No.			

Notes:

Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to following sites:

Description & Quantity	Delivery Site
Three (3) No. 220/132/11kV, 250 MVA, 3-Phase, Auto-transformer along with accessories, spare parts and Nitrogen injection explosion prevention and fire protection system etc.	Site for 220kV Grid Station Lalian, in Punjab Province.
Three (3) No. 220/132/11kV, 250 MVA, 3-Phase, Auto-transformer along with accessories, spare parts and Nitrogen injection explosion prevention and fire protection system etc.	Site for 220kV Grid Station Nowshera in Khyber Pakhtunkhwa Province
Two (2) No. 220/132/11kV, 250 MVA, 3-Phase, Auto-transformer along with accessories, spare parts and	Site for 220kV Grid Station Chakdara in Khyber Pakhtunkhwa Province

Nitrogen injection explosion prevention and fire protection system etc.	
Two (2) No. 220/132/11kV, 250 MVA, 3-Phase, Auto-transformer along with accessories, spare parts and Nitrogen injection explosion prevention and fire protection system etc.	Site for 220kV Grid Station Dera Ismail Khan in Khyber Pakhtunkhwa Province

Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-VII
(Grid Station Hardware)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	Grid Station Hardware, conductor, earthing material etc. as per Price Schedule for Goods.		Lump sum			

Notes:

- Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse Multan, Pakistan.
 Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered from outside & within the Purchaser's Country

LOT-VIII

(220&132 kV Control Panels, Relay Panels, Auxiliary Services Panels & Erection & Testing Equipment)

Name of Bidder _____ IFB Number _____ Page 1 Of 3

1	2	3	4	5		6	
				Unit Price		Total Price per item	
Item No.	Description	Country of Origin	Quantity and Unit of Measurement	(a)	(b)	(a)	(b)
				Foreign Currency	Local Currency	Foreign Currency	Local Currency
						4x5(a)	4x5(b)
1	<p>Design & Supply of soft(in Auto CAD-2013) & hard copies of AC/DC Schematic & interconnection/interface wiring diagrams alongwith terminal plans & cable schedule for grid stations complete in all respect for each 220kV & 132kV Dia. (Bay-wise) separately that shall include but not limited to the following:</p> <p>a) Protection Panels, Control Panels, Marshalling Kiosks, Synchronizing Panel, Event Recorder Panel, Fault Recorder Panel, AC/DC Auxiliary supply Panels, Switchyard equipment etc.(i.e Auto transformers, Power transformers, Circuit Breaker, Isolators, Earth Switch, CTs, PTs etc.).</p> <p>b) Parallel operation of 220/132kV Auto transformers.</p> <p>c) 11kV incoming & outgoing panels.</p> <p>d) All other necessary schematic & interconnection wiring diagrams.</p> <p>e) Final Site As-Built drawings of all above items (a,b,c,d) after energization of grid station(s).</p> <p>Soft & hard copies of schematic drawings of all the equipment not under the scope of the bidder shall be provided by NTDCCL to complete all above requirements.</p>						
	i. 220kV Grid Station Lalian		1 Lot				

	ii. 220kV Grid Station Nowshera		1 Lot				
	iii. 220kV Grid Station Chakdara		1 Lot				
	iv. 220kV Grid Station Dera Ismail Khan		1 Lot				
2	Installation, wiring/cabling, testing and commissioning of all secondary equipment alongwith their schemes including Marshalling Kiosks, Control Panels, Protection Panels, Synchronizing Panel, Event Recorder Panel, Fault Recorder, AC/DC Auxiliary supply panels, parallel operation of 220/132kV transformers, 11kV incoming/outgoing panels & all related protection/control schemes of switchyard equipment(i.e Auto transformers, Power transformers, Circuit Breaker, Isolators, Earth switch, CTs, PTs etc.) vide item-1 above according to NTDC specifications.		04 Lots				
	i. 220kV Grid Station Lalian		1 Lot				
	ii. 220kV Grid Station Nowshera		1 Lot				
	iii. 220kV Grid Station Chakdara		1 Lot				
	iv. 220kV Grid Station Dera Ismail Khan		1 Lot				
Total Amount (to be carry forward to Price Schedule for Goods)							

Notes :

1. The above mentioned services are to be carried out at four newly constructed 220/132kV Grid Station Chakdara, Lalian, Nowshera and Dera Ismail Khan. Power & Control Cables for installation at Grid Stations will be provided by Purchaser.
2. Column 5 and 6: Currencies in accordance with ITB Clause 15

Prices are to be quoted inclusive of all custom duties, sales and other similar taxes applicable in the Purchaser's country and payable on the Related Services, if the Contract is awarded to the Bidder

Name: _____

In the capacity of _____

Signed: _____

Duly authorized to sign the Bid for and on behalf of: _____

Date: _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-VIII

(220&132 kV Control Panels, Relay Panels, Auxiliary Services Panels & Erection & Testing Equipment)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	220&132 kV Control Panels, Relay Panels, metering panels, Auxiliary Services Panels, Battery Bank, testing equipment, spare parts etc. as per Price Schedule for Goods.		Lump sum			

Notes:

- Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse Multan, Pakistan.
- Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-IX
(220& 132 kV Control & Power Cables)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	220& 132 kV Control, Power Cables and allied accessories etc as per Price Schedule for Goods.		Lumpsum			

Notes:

- Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse Multan, Pakistan.
 Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-X
(220&132 kV Gantries)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	220&132 kV Gantries as per Price Schedule for Goods.		Lumpsum			

Notes:

- Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse Multan, Pakistan.
- Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-XI

(132/11.5 kV Power Transformer, 11kV Transformers, Diesel Generator)

Name of Bidder _____ IFB Number _____ Page 1 of 2

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	132/11.5 kV Power Transformer as per price schedule for Goods.		Lump sum			
2	11kV Transformers, Diesel Generator & spare Parts as per price schedule for Goods.		Lump sum			

Notes:

Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to following sites:

Description & Quantity	Delivery Site
One(1) No. 132/11.5kV Power Transformer & Diesel Generator	Site for 220kV Grid Station Lalian, in Punjab Province.
One(1) No. 132/11.5kV Power Transformer & Diesel Generator	Site for 220kV Grid Station Nowshera in Khyber Pakhtunkhwa Province
One(1) No. 132/11.5kV Power Transformer & Diesel Generator	Site for 220kV Grid Station Chakdara in Khyber Pakhtunkhwa Province
One(1) No. 132/11.5kV Power Transformer & Diesel Generator	Site for 220kV Grid Station Dera Ismail Khan in Khyber Pakhtunkhwa Province
11kV Transformers, Diesel Generator & spare Parts	NTDC Ware House Multan.

Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Price Schedule for Related Services to Be Offered From Within the Purchaser's Country

LOT-XII
(220&132 kV Surge Arrestors and Post Insulators)

Name of Bidder _____ IFB Number _____ Page 1 of 1

1	2	3	4	5	6	7
Item	Description	Country of Origin	Quantity and Unit of Measurement	Inland Transportation (Total Price)	Incidental Charges (Total Price)	Total Price
						5+6
1	220&132 kV Surge Arrestors and Post Insulators as per Price Schedule for Goods.		Lumpsum			

Notes:

- Column 5: Inland transportation charges for transportation of material from EXW premises or port of entry (Karachi) to NTDC Warehouse Multan, Pakistan.
 Column 6: Incidental Charges include any other miscellaneous expenses to be incurred during inland transportation including loading at EXW premises or port of entry (Karachi), unloading at NTDC Warehouse Multan & octroi etc.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Form of Bid Security

[insert Bank's Name, and Address of Issuing Branch or Office]

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

Date: *[insert date]* **BID GUARANTEE No.:** *[insert number]*

We have been informed that *[insert name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its bid dated *[insert date]* (hereinafter called "the Bid") for the execution of *[insert name of contract]* under Invitation for Bids No. *[insert IFB number]* ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we *[insert name of Bank]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount in figures]**[insert amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Form of Bid; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the performance security, in accordance with the ITB.

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the contract signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; and (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy your notification to the Bidder of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of the Bidder's bid.

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

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid Security for and on behalf of _____

Date _____

QF-1. Qualification Form for Contractual Experience

Sr. .No.	Order No. & Date	Type and designation of supplied equipment.	Name of Client/ Key personal	Description of Material and major component	Quantity	Value of Contract	Remarks

Signature & seal of the Bidder

Note:

1. Bidder shall attach the copies of contract agreements as required in clause-2.1, Section-III (Evaluation & Qualification Criteria) with this Performa.

QF-2. Qualification Form for Supply Capacity

Sr. .No.	Order No. & Date	Type and designation of supplied equipment.	Name of Client/ Key personal	Description of Material and major component	Quantity	Remarks

Signature & seal of the Bidder

Note:

1. Bidder shall attach the copies of contract agreements with this Performa.

QF-3. MANUFACTURING EXPERIENCE

1. Name of the Plant and Equipment: _____
2. Location and Address of manufacturing facilities: _____
3. Production capacity (average annual): _____
4. First year of manufacturing: _____
5. Quantity produced of the offered type Equipment [Sets/Numbers/Km]:
 - (ii) 2012 : _____
 - (iii) 2013 : _____
 - (iv) 2014 : _____
6. Manufactured under own License? Yes No
7. Manufactured under license from: _____
8. Manufactured in collaboration with: _____
9. Has the Bidder R&D Section? Yes No
10. Has manufacturer a Quality Assurance Plan (QAP) in place? Yes No
11. Is the manufacturer certified or accredited by an organization? Yes No
12. Name the organization and type of certification/accreditation: _____
13. Is the manufacturer's testing facilities/laboratory accredited by an organization? Yes No
14. Name the organization and type of certification/accreditation for the laboratory: _____

Note:

Copy of the following document shall be attached:

- (a) Copy of the Quality Assurance Plan (ISO 9001) for each manufacturer.
- (b) Copies of accreditation certificates.

QF-4. PERFORMANCE CERTIFICATE
Summary of operational Experience

Sr. .No.	Order No. & Date	Type and designation of supplied equipment.	Name of Client/ Key personal	Description of Material and major component	Quantity	Date of Commissioning	Remarks

Signature & seal of the Bidder

Note:

1. Bidder shall attach the operational certificate as per clause-2.3 iii), Section-III(Evaluation & Qualification Criteria) with this Performa.

Pending Litigation

Each Bidder or member of a JV must fill in this form

Pending Litigation			
<input type="checkbox"/> No pending litigation in accordance with of Section 3 (Evaluation and Qualification Criteria)			
<input type="checkbox"/> Pending litigation in accordance with of Section 3 (Evaluation and Qualification Criteria)			
Year	Matter in Dispute	Value of Pending Claim in US\$ Equivalent	Value of Pending Claim as a Percentage of Net Worth

Financial Situation

Each Applicant or member of a JV must fill in this form

Financial Data for Previous 3 Years [US\$ Equivalent]		
Year 1:	Year 2:	Year 3:

Information from Balance Sheet

Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			
Total Debt			
Receivables			
Inventories in Hand			

Information from Income Statement

Total Revenues/Sales			
Profits Before Taxes			
Profits After Taxes			
Interest Charges Paid			

- Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three years, as indicated above, complying with the following conditions;
- All such documents reflect the financial situation of the Applicant or partner to a JV, and not sister or parent companies.
 - Historic financial statements must be audited by a certified accountant
 - Historic financial statements must be complete, including all notes to the financial statements.
 - Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Average Annual Turnover

Each Bidder or member of a JV must fill in this form

The information supplied should be the Annual Turnover of the Bidder or each member of a JV in terms of the amounts billed to clients for each year for Contracts/ Orders in progress or completed, converted to US Dollars at the rate of exchange at the end of the period reported.

Annual Turnover Data for the Last 3 Years			
Year	Amount Currency	Exchange Rate	US\$ Equivalent
Average Annual Turnover			

Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total orders cash flow demands of the subject contract or contracts as indicated in Section 3 (Evaluation and Qualification Criteria)

Financial Resources		
No.	Source of financing	Amount (US\$ equivalent)
1		
2		
3		

Current Contract Commitments in Progress

Bidders and each partner to a JV should provide information on their current commitments on all contracts/orders that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts/orders approaching completion, but for which an unqualified, delivery certificate has yet to be issued.

Current Contract Commitments					
	Name of Contract / Order	Employer's Contact Address, Tel, Fax	Value of Outstanding orders [Current US\$ Equivalent]	Estimated Delivery Date	Average Monthly Invoicing Over Last Six Months [US\$/month]
1					
2					
3					
4					
5					

Manufacturer's Authorization

Date: _____

ICB No.: _____

Invitation for Bid No.: _____

Alternative No.: _____

To: _____

WHEREAS _____ who are official manufacturers of _____ having factories at _____ do hereby authorize _____ to submit a Bid in relation to the Invitation for Bids indicated above, the purpose of which is to provide the following Goods, manufactured by us _____ 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 in reply to this Invitation for Bids.

Name _____

In the capacity of: _____

Signed _____

Duly authorized to sign the Authorization for and on behalf of _____

Date _____

Section V. Eligible Countries

1.	AFG	Afghanistan	35.	FSM	Federal States of Micronesia
2.	ARM	Armenia	36.	MON	Mongolia
3.	AUS	Australia	37.	MYA	Myanmar
4.	AUT	Austria	38.	NAU	Nauru, Republic of
5.	AZE	Azerbaijan	39.	NEP	Nepal
6.	BAN	Bangladesh	40.	NET	Netherlands
7.	BEL	Belgium	41.	NZL	New Zealand
8.	BHU	Bhutan	42.	NOR	Norway
9.	BRU	Brunei Darussalam	43.	PAK	Pakistan
10.	CAM	Cambodia	44.	PAL	Palau
11.	CAN	Canada	45.	PNG	Papua New Guinea
12.	PRC	China, People's Republic of	46.	PHI	Philippines
13.	COO	Cook Islands	47.	POR	Portugal
14.	DEN	Denmark	48.	SAM	Samoa
15.	FIJ	Fiji Islands, Republic of	49.	SIN	Singapore
16.	FIN	Finland	50.	SOL	Solomon Islands
17.	FRA	France	51.	SPA	Spain
18.	GEO	Georgia	52.	SRI	Sri Lanka
19.	GER	Germany	53.	SWE	Sweden
20.	HKG	Hong Kong, China	54.	SWI	Switzerland
21.	IND	India	55.	TAJ	Tajikistan
22.	INO	Indonesia	56.	TAP	Taipei, China
23.	IRE	Ireland	57.	THA	Thailand
24.	ITA	Italy	58.	TIM	Timor-Leste, Democratic Republic of
25.	JPN	Japan	59.	TON	Tonga
26.	KAZ	Kazakhstan	60.	TUR	Turkey
27.	KIR	Kiribati	61.	TKM	Turkmenistan
28.	KOR	Korea	62.	TUV	Tuvalu
29.	KGZ	Kyrgyz Republic	63.	UKG	United Kingdom
30.	LAO	Lao People's Democratic Republic.	64.	USA	United States of America
31.	LUX	Luxembourg	65.	UZB	Uzbekistan
32.	MAL	Malaysia	66.	VAN	Vanuatu
33.	MLD	Maldives	67.	VIE	Viet Nam
34.	RMI	Marshall Islands			

**Section – VI
(Supply Requirements)**

Contents

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1. List of Goods and Related Services

Details of Goods to be supplied under various lots of this tender has been provided in price schedules in Section-IV of the bidding documents. The groups and related services are grouped in Lots. Bidders shall have the option of submitting Bids for one, any combination, or all of the lots. Lots shall not be further subdivided for the purpose of bidding.

2. Delivery and Completion Schedule

Item No.	Description of Goods or Related Services	Location	Delivery Schedule (Required)	Delivery Schedule (offered)
1.	Lot-I (220kV Circuit Breakers and Spare Parts as per Price Schedule for Goods.)	NTDC Warehouse (Gatti) Faisalabad	180 days	
2.	Lot-II (145kV Circuit Breakers and Spare Parts as per Price Schedule for Goods.)	NTDC Warehouse (Gatti) Faisalabad	180 days	
3.	Lot-III (220kV Isolators and Spare Parts as per Price Schedule for Goods)	NTDC Warehouse (Gatti) Faisalabad	180 days	
4.	Lot-IV (132 kV Isolators and Spare Parts as per Price Schedule for Goods.)	NTDC Warehouse Multan	180 days	
5.	Lot-V (220&132kV Instrument Transformers, etc as per Price Schedule for Goods)	NTDC Warehouse Multan	180 days	
6.	Lot-VI (220/132/11kV, 250 MVA, 3-Phase, Auto-transformer along with accessories, spare parts and Nitrogen injection explosion prevention and fire protection system etc. as per Price Schedule for Goods.)	*220kV Substation Sites and NTDC Warehouse Multan	240 days	
7.	Lot-VII (Grid Station Hardware, conductor, earthing material etc. as per Price Schedule for Goods)	NTDC Warehouse Multan	180 days	
8.	Lot-VIII (220&132 kV Control Panels, Relay Panels, metering panels, Auxiliary Services Panels, Battery Bank, testing equipment, spare parts etc. as per Price Schedule for Goods)	NTDC Warehouse Multan	180 days	

9.	Lot-IX (220& 132 kV Control, Power Cables and allied accessories etc as per Price Schedule for Goods)	NTDC Warehouse Multan	180 days	
10.	Lot-X (220&132 kV Gantries as per Price Schedule for Goods)	NTDC Warehouse Multan	180 days	
11.	Lot-XI (132/11.5 kV Power Transformer, 11kV transformers, Diesel Generators, spare parts as per price schedule for Goods)	*220kV Substation Sites and NTDC Warehouse Multan	180 days	
12.	Lot-XII (Lightening Arrestors and Post Insulators etc as per Price Schedule for Goods)	NTDC Warehouse Multan	180 days	

* For detail please refer to Price Schedule for Related Services in Section-IV(Bidding Forms).

SEAL & SIGNATURE OF BIDDER

Note:

1. Delivery period will be reckoned from the date of opening of operative LC or 30 days from signing of contract which ever comes earlier. However, the supplier shall furnish all the relevant information required for opening of LC to NTDC within 30 days from the issuance of NOA. The said information shall be sent to Dy. Manager (F&TA) LC Section, Room No.619 WAPDA House Lahore with a copy to CE (MP&M) 622 WAPDA House Lahore.
2. In case of Ex-Work supply, the delivery period shall be reckoned from the date of Contract.
3. Documents required for opening of LC for Good Supplied from abroad.
 1. Freight Break up
 2. No. of Packages.
 3. Weight & Measurement of Goods
 4. Port of Shipment
 5. Volume
 6. Expected date of shipment
 7. Beneficiary's Bank Account No. and address
 8. Insurance Policy or insurance.
4. Documents required for opening of LC for Goods supplied from within purchaser Country.
 1. Name and complete address of Beneficiary.
 2. Name and complete address of Beneficiary Bank.
 3. Beneficiary Bank account Number.
 4. Copy of Performance Bond.
 5. Performa Invoice for LC opening
5. Any in providing the above mentioned information regarding opening of LC will be deducted from the respective delivery period.

3. Technical Specification

1. GENERAL

- 1.1 All designs, equipment, materials and workmanship shall comply with and be tested in accordance with requirements of the specifications. Equipment or parts, which are not covered by the specifications, shall comply with rules, codes and regulations of the international electro-technical commission or approved National Standardizing bodies.
- 1.2 In case of contradiction between the technical requirements mentioned herein and relevant specifications appended with the tender, the former shall prevail.
- 1.3 The specific reference in these specifications and documents to any material/equipment by brand name, make or catalogue number shall be constructed as establishing standards of quality and performance and not as limiting competition. However, Bidders may offer other similar material/equipment provided they meet the specified standard, design and performance requirements. The Bidder shall furnish adequate technical information about such alternative material/equipment to enable Purchaser to determine its acceptability. Purchaser shall be the sole judge on the acceptability or otherwise of such alternative material/equipment.
- 1.4 The Bidder Shall note that standards for workmanship, material and equipment and reference to brand names or catalogue numbers designated by Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brands name and/or catalogue numbers in its Bid, provided that it demonstrates to Purchaser satisfaction that the substitutions are substantially equivalent or superior to those designed in the Technical Specifications.
- 1.5 The contract shall be executed in strict conformity with the specifications and/or Drawings given or mentioned in this section and the supplier shall do no 'Work' without proper specifications, instructions and/or Drawings.
- 1.6 Specifications and/or drawings are intended to complement each other so that if anything is shown on the drawings as required but not mentioned in the specifications or vice versa. It shall be of like effect as if shown or mentioned in both. If any errors, omissions or discrepancies are found in the figures, specifications and/or drawings or, if any feature shall appear to the supplier to be indefinite or unclear, the same shall be referred to the Purchaser whose written explanation and/or clarification shall be obtained before proceeding with the work.

- 1.7 The Manufacturer / supplier shall submit to Engineer (Chief Engineer Design, NTDC) under intimation to the Purchaser, within 30 days of the issuance of the Notification of Award, for approval, four (4) copies of all drawings, technical literature, data, operation and maintenance instruction books and/or manuals required under the specifications and such other documents as required in the Technical Specifications or other provisions of the bidding documents. The documents shall be approved within 30 days from the receipt of the same. If Purchaser deems necessary, require changes or modifications to be made therein, Purchaser shall return two copies to the Manufacturer/Supplier for Correction. The same shall be resubmitted to Purchaser within 15 days from receipt of correction request subsequent to this the Purchaser shall finalize the drawings/data within next 15 days.
- 1.8 On completion of the Contract the Manufacturer / Supplier shall deliver to the Purchaser four (4) prints of all approved drawings, technical literature, data which show the work in the final or "as built" condition. The said drawings and documents shall be permanent and non-fadable. In addition to above, one soft copy of above mentioned final drawings made on Auto CAD (latest version) on a CD shall also be provided to the Purchaser.
- 1.9 Approval by the Purchaser does not relieve the Manufacturer/Supplier of his responsibility to do the work in accordance with the Contract.
- 1.10 The Manufacturer/ Supplier shall be responsible for any discrepancies, errors omissions in any drawings or other particulars supplied by him whether the Purchaser has approved such drawings or particulars or not.
- 1.11 All drawings and documents furnished by the Manufacturer/Supplier in accordance with the Contract shall become the property of the Purchaser.
- 1.12 Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest current edition or revision of the relevant standards or codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relates to a particular country or regions, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.
- 1.13 NTDC reserves the right to delete or increase/decrease any item from any Lot before award of contract.

2 **LANGUAGE**

All correspondence, literature, drawings, name plates, diagrams, applicable data, equipment details, instructions and maintenance books and manuals, spare parts, books and descriptive data shall be in the English language.

3. **TYPE TESTS (LOT – I, II, III, IV, V, VII, VIII, IX, X and XI)**

The offered plant/equipment shall be type tested as per relevant provisions of the NTDC specifications. The Bidder shall furnish type test certificates for the equipment offered from any STL member independent laboratory along with their bid. In case of non-submission of type test reports or if type test reports supplied are not to the full satisfaction of the Engineer, the equipment/material offered will be subjected to all type tests/special tests at any of the STL lab or Engineer approved Lab. having ISO 17025 certification under the supervision of the representative of STL Member lab duly witness by NTDC's representatives within the quoted bid price and stipulated delivery time. The test report will be issued by the respective STL member lab taking full responsibility of the type test report issued.

In case of non-provision of type test with the bid, the bidder shall consent for the performance of type test with name and accreditation of proposed lab in the bid

All Type Test certificates/reports; reference list, etc. shall be in English language

TYPE TESTS (LOT – VI)

The offered 220/132kV Auto-Transformers shall be type tested as per relevant provisions of the specification at manufacturer's works having ISO 17025 certification.

5. **DETAILED TECHNICAL SPECIFICATIONS**

5.1 The following technical specifications are appended as Vol-II (Specifications).

1	Auto Transformers	P-169:09
2	220kV Alternating Circuit Breakers	P-171:2008
3	220kV Disconnectors	P-173:83
4	220kV & 500kV Current Transformers	P-174:2008
5	220kV Capacitor Voltage Transformers	P-172:83
6	Coupling Capacitor Voltage Transformers for 500kV & 220kV	P-Draft
7	Metal- Oxide Surge Arrestors(for 11kV, 33kV, 66kV, 132kV, 220kV & 500kV AC System)	P-181:2012
8	Nitrogen Injection Fire prevention system	P-Draft
9	Power Transformer	P-46:2008
10	SF6 Circuit Breakers 145kV, 72.5kV & 36kV	P-193:2010
11	145kV, 72.5kV & 36kV AC Bus & Line Disconnectors	P-128:2011
12	Current Transformers(145kV, 72.5kV & 36kV)	P-90:2012
13	Current Transformers for Special Application (Energy Metering)	P-205:2005
14	Inductive Voltage Transformers(145kV, 72.5kV & 36kV)	P-129:2011
15	Voltage Transformers for Special Application (Energy	P-206:2005

	Metering)	
16	Disc type porcelain insulator	P-8:96
17	Tension Strings For Grid Station	P-Draft
18	Suspension Strings For Grid Station	P-Draft
19	Earth Wire Tension Assembly	P-141:80
20	Aluminum Tubing	P-134:80
21	Connectors for 500/220/132 kV Grid stations	P-176:2011
22	Aluminum Stranded Conductor	P-63:2007
23	Copper Wire for Earthing	P-16:68
24	Earth Rod	P-116:81
25	Thermite Joints for Substation Earthing	P-114:82
26	Control & Relay Panels	P-191:2007
27	Energy meters for Grid metering	P-202:2012
28	Metering equipment for electrical energy transfer between companies.	P-199:2008
29	AC & DC Auxiliary Services Panels	P-48:81
30	Station Batteries	P-132:88
31	Charger for Station Batteries	P-133:95
32	11kV Metalclad Switchgear	P-44:2005
33	Control Cables	P-100:2005
34	15kV XLPE Insulated Stranded Circular Compacted Aluminum/Copper Conductor Power Cables	P-29:2010
35	Termination for XLPE 11 kV Cables	P-184:86
36	Three Phase Pad mounted 11/.415kV Transformers	P-41:81
37	Diesel Generator Set	P-161:81
38	Earthing Platform	P-135:80
39	Steel Nut and Bolt	P-19:83
40	Fabrication of Steel Structure	P-139:80
41	Zinc Coating	P-82:81
42	Steel Supporting Structures for Grid Station Equipment	P-182:91

5.2 The specification mentioned above shall apply. The requirements indicated in subsequent clause 5.3 shall also have to be met. In case any requirement given in the said clauses differs from that given in the main specification, the requirement given herein shall prevail.

5.3 The contract shall be executed in strict conformity with the specifications and/or Drawings given or mentioned in this section and the supplier shall do no 'Work' without proper specifications, instructions and/or Drawings.

5.4 Specifications and/or drawings are intended to complement each other so that if anything is shown on the drawings as required but not mentioned in the specifications or vice versa. It shall be of like effect as if shown or mentioned in both. If any errors, omissions or discrepancies are found in the figures, specifications and/or drawings or, if any feature shall appear to the supplier to be indefinite or unclear, the same shall be referred to the

Purchaser whose written explanation and/or clarification shall be obtained before proceeding with the work.

- 5.5** The Manufacturer / supplier shall submit to Purchaser under intimation to the Purchaser, within 30 days of the issuance of the Notification of Award, for approval of the Purchaser, four (4) copies of all drawings technical literature, data, operation and maintenance instruction books and/or manuals required under the specifications and such other documents as per required in the Technical Specifications or other provisions of the bidding documents or, if Purchaser deems necessary, require changes or modifications to be made therein, Purchaser shall return two copies to the Manufacturer/Supplier marked. "Approved", "Approved as Noted" or "Returned for Correction". Each drawing, which is noted "Returned for Correction".
- 5.6** The Manufacturer/Supplier after incorporating the desired changes in the drawing shall resubmit four (4) sets of the same to the Purchaser for approval. Two prints of which shall be stamped "APPROVED" by the Purchaser and returned to the Manufacturer/Supplier for his record.
- 5.7** On completion of the Contract the Manufacturer / Supplier shall deliver to the Purchaser four (4) prints of all approved drawings, technical literature, data which show the work in the final or "as built" condition. The said drawings and documents shall be permanent and non-fadable. In addition to above, two soft copies of above mentioned final drawings made on AutoCAD (latest version) on two separate CDs shall also be provided to the Purchaser.
- 5.8** The Manufacturer/Supplier shall allow 30 days for the Purchaser's approval of drawings in his schedule of work and in the time allowed for completion of the Contract. Extra time required for approval of drawings due to deficiencies in design or errors in submitted drawings shall be the responsibility of the Manufacturer/Supplier and no extension in time will be allowed on this account. Delays in obtained approval caused by the Purchaser beyond 30 days will entitle the Supplier to an extension of time.
- 5.9** Approval by the Purchaser does not relieve the Manufacturer/Supplier of his responsibility to do the work in accordance with the Contract.
- 5.10** The Manufacturer/Supplier shall be responsible for any discrepancies, errors omissions in any drawings or other particulars supplied by him whether the Purchaser has approved such drawings or particulars or not.
- 5.11** All drawings and documents furnished by the Manufacturer/Supplier in accordance with the Contract shall become the property of the Purchaser.
- 5.12** Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest current edition or revision of the relevant

standards or codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relates to a particular country or regions, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

5.13 BUSHINGS

High voltage, low voltage neutral & tertiary bushings shall be type tested as per IEC-60137 (Latest edition) in conformity to the provided schedule of technical data of Trench Hefley (France/Switzerland) or Passoni & Villa Italy or F&G Germany or equivalent.

The transformer bushings will be equipped with shielding rings and terminal connectors suitable for making external connection by means of conductors/pipes as indicated below:

HV Side	LV Side	Tertiary
3 Nos. 2X600 mm ² Al. conductors with 200 mm spacing.	3 Nos. 2X600 mm ² Al. conductors with 200 mm spacing.	Suitable for interconnection by means of Al. pipe of adequate size (pipe also included in scope of supply)

5.14 TRANSFORMER FIRE PREVENTION & PROTECTION SYSTEM

The offered system must have international recognition/certification for environmental protection and safety of people. The isolation valve, rupture disc and all piping shall be of stainless steel in order to avoid contamination of transformer oil and external corrosion. Isolation Valve will be equipped with position sensors that will be monitoring both opening and closing positions. The nitrogen housing cabinet shall be of an IP55 or higher, with a lock, an internal lighting and an audible alarm in case of any of the signals triggered. Cylinder shall be filled at least at 200 bar, and cylinder shall be equipped with an alarm which shall triggered as soon as the pressure reaches half of nominal pressure. Moreover Decompression Chamber shall be of at least DN250 for a 250MVA 220kV. Provision shall be made in the control room for indication of healthiness of all the elements / system for continuous monitoring in the local as well as transformer auxiliary panel in the control room. For operational experience requirement, please refer to Section-III, Clause 2.3.

5.15 TRANSFORMERS

The Auto-Transformer shall be equipped with an on-load tap changer (OLTC), which shall be Resister Type using Vacuum interrupter. The OLTC diverter switch compartment shall be shipped duly filled in with oil as per manufacturer's instruction manual.

5.16 The auto transformer shall be equipped with bushing CT's as following:

HT Side

04 No. CTs, Ratio 2400:1200/1A, class 5P20, 30VA at lowest tap.

LT Side

03 No. CTs, Ratio 2400:1200/1A, 1 No. ratio 1600/1 A, class 5P20, 30VA at lowest tap.

Tertiary

02 Nos CTs ratio 3000 -1500/1 Amp. Class 5P20, 30 VA at lowest tap, 1 No. out of Delta CT of same specification.

Neutral

02 No. CTs, Ratio 2400:1200/1A, class 5P20, 30VA at lowest tap.

In addition to the above, the successful bidder shall also provide thermal overload curves, excitation curves and over voltage curves of the auto transformer to be supplied.

5.17 The transformer breather shall be of maintenance free and self-supervisory type with replaceable humidity sensors.

5.18 **For Control, Protection & Metering Panels**

1. As the built in function of Low impedance bus bar protection shall be used for breaker failure protection of all 132kV circuit breaker, therefore 132kV breaker failure relay associated with 220/132kV Autotransformer in R5 panel is not required.
2. For 220kV Busbar Differential Protection, Decentralized Low Impedance Type (consist of central unit & Bay units) protection should be sufficient for protection of 220kV Bus Bar-1 & 2 to accommodate at least six(6) Dias of one and half breaker scheme.
3. 132kV Low Impedance Bus Bar (centralized) Differential Protection Panel shall be provided with built-in feature of breaker failure protection including end zone fault protection for all 132kV Circuit Breaker to accommodate at least **20 bays**. Moreover, complete equipment in order to fulfill the 132kV Bus Bar protection along with built-in 132kV Breaker Failure & End Zone Fault Protection and Direct Inter Trip Signaling send & receive of remote end 32kV circuit breakers and 220kV circuit breakers of 220/132kV Auto Transformer shall also be furnished according to scheme requirement.
4. DPM without graphical display (due to constraint in size i.e 96mm x 96mm) may be accepted as a special case with a conditions given below:

- a. DPM shall have the facility to measure all the parameters mentioned in clause 2.7.5.4 of NTDC specifications P-191:2007, however the exact make, types and country of origin of Digital Power Meter shall be finalized at the time of technical evaluation of bid.
- b. Eight Desktop computers, one each for 220 & 132kV side (system) of four(4) 220/132kV Grid Stations shall be provided along with necessary interfacing communication cables, Hub/routers and allied accessories/furniture, so that DPMs associated with 220 & 132kV system of 220/132kV Grid Station shall be wired up on common bus in order to view their graphical displays & other electrical parameters through desktop computer by using software.
5. The capacity of Event Recorder shall be fully furnished for minimum 1000 events.
6. The Fault Recorder/Automatic Transient Recording Oscillograph shall be provided for complete 220 & 132kV system of grid station. Tentative quantity of analogue input (CT/VT) and digital inputs shall be as under:-
 - a. CT Analogue Inputs 184 Nos.
 - b. VT Analogue Inputs 64 Nos.
 - c. Digital inputs 312 Nos.
7. All 132kV Line Control Panels shall be provided with energy meters. However, energy meters for 220 kV Lines Bays shall be installed in separate Energy Meter Panels.
8. Telephone socket shall be provided in each relay panel, control panel & marshalling kiosk to facilitate the crews to communicate each other while working in different areas of the grid station during their routine work/trouble shooting.
9. ELCB with sensitive earth fault protection shall be provided for power socket in each relay panel, control panel & marshaling kiosk for personnel safety.
10. Switchyard equipment schematics and terminal plan will be provided by NTDC.
11. Installation includes the installation of all control, protection, metering & AC/DC Auxiliary services panels and Marshaling kiosks. Laying of cable in switchyard trenches and control room and termination of cable is also included in scope of work however, necessary cables for this purpose will be provided by NTDC.

5.19 For 220kV AC & DC Auxiliary Panels

1. 400/230V AC-I & II Auxiliary Supply Panels shall be provided with both manual & automatic change over facility utilizing two 11kV sources and one Diesel Generator set for 220 & 132kV system separately as per concept/logic diagram & technical schedule attached herewith.

2. The minimum quantity of outgoing AC MCBs shall be as under:-

415/ 220V AC Panel For 220 KV System

AC Bus-I		AC Bus-II	
<u>Amp Rating</u>	<u>Quantity</u>	<u>Amp Rating</u>	<u>Quantity</u>
16 Amp	26	16 Amp	20
32 Amp	05	32 Amp	04
63 Amp	04	63 Amp	09
125 Amp	01	100 Amp	01

415/ 220V AC Panel For 132 KV System

AC Bus-I		AC Bus-II	
<u>Amp Rating</u>	<u>Quantity</u>	<u>Amp Rating</u>	<u>Quantity</u>
16 Amp	19	16 Amp	19
32 Amp	06	32 Amp	06
63 Amp	02	63 Amp	05

3. 220V DC-I & DC-II and 110V DC-I & DC-II Auxiliary Supply Panels with both manual & automatic change over facility shall be provided for 220 & 132kV system separately as per concept/logic diagram & technical schedule attached herewith.
4. The minimum quantity of outgoing DC MCBs shall be as under:-

220V DC Panel For 220 KV System

220 V DC Bus-I		220 V DC Bus-II	
<u>Amp Rating</u>	<u>Quantity</u>	<u>Amp Rating</u>	<u>Quantity</u>
16 Amp	31	16 Amp	40
32 Amp	15	32 Amp	06
63 Amp	04	63 Amp	04

110V DC Panel For 132 KV System

110 V DC Bus-I		110 V DC Bus-II	
<u>Amp Rating</u>	<u>Quantity</u>	<u>Amp Rating</u>	<u>Quantity</u>
16 Amp	30	16 Amp	40
32 Amp	16	32 Amp	06
63 Amp	04	63 Amp	04

5.20 Metering Panels

The reference of specification P-202:05 in specification P-199:08 may be read as P-202:2012.

6. SERVICE CONDITIONS

Please refer to relevant specification of the tender.

7.0 Pre-Delivery / Pre-shipment Inspection

All the machinery /equipment /goods shall be subject to pre-delivery /pre-shipment inspection as per relevant specification and contract conditions.

8 SCHEDULE OF TECHNICAL DATA

Schedules of technical data regarding equipment/ material be supplied are attached as Annex-A. The bidder is required to fill the requisite schedule of technical data and submit the same with the bid. A bid without schedule of technical data (filled in) shall be considered as non-responsive.

All allied equipment/material offered as a part of main equipment may have (preferably) values over and above IEC ratings/values if not specified in NTDC specifications.

Section VII. General Conditions of Contract

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1. Definitions

1.1 The following words and expressions shall have the meanings hereby assigned to them:

- (a) "Contract" means the 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.
- (b) "Contract Documents" means the documents listed in the Agreement, including any amendments thereto.
- (c) "Contract Price" means the price payable to the Supplier as specified in the Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
- (d) "Day" means calendar day.
- (e) "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.
- (f) "Completion" means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
- (g) "Eligible Countries" means the countries and territories eligible as listed in Section V.
- (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's Country" is the country specified in the Special Conditions of Contract (SCC).
- (k) "Purchaser" means the entity purchasing the Goods and Related Services, as specified in the SCC.
- (l) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other similar obligations of the Supplier under the Contract.
- (m) "SCC" means the Special Conditions of Contract.
- (n) "Subcontractor" means any natural person, private or

government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.

(o) "Supplier" means the natural 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 Agreement, and includes the legal successors or permitted assigns of the Supplier.

(p) "The ADB" is the Asian Development Bank.

(q) "The 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 Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.

3. Corrupt Practices

3.1 ADB's Anticorruption Policy requires borrowers (including beneficiaries of ADB-financed activity), as well as bidders, suppliers, and contractors under ADB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the ADB:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;

(ii) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) "coercive practice" means 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;

(iv) "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions

of another party;

- (b) will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract;
 - (c) will cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the borrower or of a beneficiary of ADB-financing engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the borrower having taken timely and appropriate action satisfactory to ADB to remedy the situation; and
 - (d) will sanction a firm or an individual, at any time, in accordance with ADB's Anticorruption Policy and Integrity Principles and Guidelines (both as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate¹ in ADB-financed or ADB-administered activities or to benefit from an ADB-financed or ADB-administered contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive or other prohibited practices.
- 3.2 The Supplier shall permit the ADB to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the ADB, if so required by the ADB.

4. Interpretation

- 4.1 If the context so requires it, singular means plural and vice versa.
- 4.2 Incoterms
- (a) The meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.
 - (b) EXW, CIF, CIP, and other similar terms, shall be

¹ Whether as a contractor, nominated subcontractor, consultant, manufacturer or supplier, or services provider or any other capacity (different names are used depending on the particular bidding document). A nominated subcontractor is one which either 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 are accounted for in the evaluation of the bid ; or (ii) appointed by the Purchaser.

governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce at the date of the Invitation for Bids or as specified in the SCC.

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 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 the SCC, 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.
- 6. Joint Venture, Consortium or Association**
- 6.1 Unless otherwise specified in the SCC, 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.
- 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 or incorporated, 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 ADB 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 imported components.
- 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 the Purchaser's country, unless otherwise specified in the SCC.

- 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 the parties fail to resolve such a dispute or difference by mutual consultation within twenty-eight (28) days from the commencement of such consultation, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the SCC.
- 11. Scope of Supply**
- 11.1 Subject to the SCC, the Goods and Related Services to be supplied shall be as specified in Section VI, Schedule of Supply.
- 11.2 Unless otherwise stipulated in the Contract, the Scope of Supply shall include all such items not specifically mentioned in the Contract 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.
- 12. Delivery**
- 12.1 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 Section VI, Schedule of Supply. The details of shipping and other documents to be furnished by the Supplier are specified in the SCC.
- 13. Supplier's Responsibilities**
- 13.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 11, and the Delivery and Completion Schedule, as per GCC Clause 12.
- 14. Purchaser's Responsibilities**
- 14.1 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.
- 14.2 The Purchaser shall pay all costs involved in the performance of its responsibilities, in accordance with GCC Sub-Clause 14.1.
- 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 delivered 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 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 12 and upon fulfillment of all the obligations stipulated in the Contract.

16.3 Payments shall be made promptly by the Purchaser, no later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and the Purchaser has accepted it.

16.4 The currency or currencies in which payments shall be made to the Supplier under this Contract shall be specified in the SCC.

17. Taxes and Duties

17.1 For goods supplied from outside the Purchaser's country, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the Purchaser's country.

17.2 For goods supplied from within the Purchaser's country, 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 the Purchaser's Country, 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 The Supplier shall, within twenty-eight (28) days of the notification of Contract award, provide a Performance Security for the due performance of the Contract in the amounts and currencies specified in the SCC.

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 The Performance Security shall be denominated in the currencies of the Contract, or in a freely convertible currency acceptable to the Purchaser, and shall be in one of the forms stipulated by the Purchaser in the SCC, or in another form acceptable to the Purchaser.
- 18.4 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 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 design, procurement, or other work and services required for 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 ADB 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. Subcontracting shall in no event 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 Supplier shall ensure that the Goods and Related Services comply with the technical specifications and other provisions of the Contract.
- (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) The Goods and Related Services supplied under this Contract shall conform to the standards mentioned in Section VI, Schedule of Supply and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is

appropriate to the country of origin of the Goods.

22.2 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 Section VI, Schedule of Supply. 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 final destination of the Goods 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

25.1 Unless otherwise specified in the SCC, obligations for transportation of the Goods shall be in accordance with the Incoterms specified in Sections VI, Schedule of Supply.

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 Sections VI, Schedule of Supply.

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 final destination of the Goods, or in another

place in the Purchaser's country 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 or other obligations under the Contract.

27. Liquidated Damages

27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods 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 liquidated damages, a sum equivalent to the percentage specified in the SCC of the Contract Price for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the SCC. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

28. Warranty

28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

28.2 Subject to GCC Sub-Clause 22.1, 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 the country of final destination.

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 or 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 the country where the Site is located; 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.

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 gross negligence or willful misconduct :

- (a) neither party shall be liable to the other party 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 liquidated 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 amount specified in the SCC, 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 the Invitation for Bids, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of the Purchaser's country 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, liquidated 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 and 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.

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 12, 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 liquidated 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 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; or
 - (ii) if the Supplier fails to perform any other obligation under the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC 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.

- (c) if the Supplier, in the judgment of the Purchaser has engaged in corrupt, fraudulent, collusive, or coercive practices, as defined in GCC Clause 3, in competing for or in executing the Contract.

35.2 Termination for Insolvency

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 the 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.

Section VIII. Special Conditions of Contract

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

GCC 1.1(j)	The Purchaser's country is: Islamic Republic of Pakistan
GCC 1.1(k)	The Purchaser is: National Transmission & Despatch Company
GCC 1.1 (q)	<ul style="list-style-type: none"> i) 220 kV AIS Chakdara Grid Station. ii) 220 kV AIS Lalian Grid Station. iii) 220 kV AIS DI Khan Grid Station. iv) 220 kV AIS Nowshera Grid Station.
GCC 4.2 (a)	The version of Incoterms shall be: Incoterms 2010
GCC 5.1	The language shall be English
GCC 6.1	The individuals or firms in a joint venture, consortium or association shall be jointly and severally liable.
GCC 8.1	<p>For notices, the Purchaser's address shall be:</p> <p>Chief Engineer (Material Procurement & Management) 622-WAPDA House, Shahrah-e-Quaid-e-Azam, Lahore, Pakistan. Postal Code: 54000 Telephone: +92-42-99202597 Facsimile number: +92-42-99202173 E-mail address: cempm@ntdc.com.pk</p>
GCC 9.1	The governing law shall be: Laws of Islamic Republic of Pakistan
GCC 10.2	The formal mechanism for the resolution of disputes shall be: In the case of dispute between the Purchaser and Supplier, the dispute shall be settled by arbitration in accordance with the provisions of the United Nations Commission on International Trade Law (UNCITRAL) Arbitration Rules. The venue for arbitration shall be Lahore, Pakistan.
GCC 11.1	The scope of supply shall be defined in Section-VI. Schedule of Supply, including the Specifications(Volume-II, and Schedules of Technical Data (Annex-A)
GCC 12.1	Details of shipping and documents to be furnished by the Supplier shall be as follows:

	<p><u>For Goods Supplied from abroad</u> (as per incoterms CIF)</p> <p>Upon shipment the supplier shall notify the Purchaser and the Insurance Company by fax/cable the full details of the shipment, including Contract number, description of Goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge, etc. The Supplier shall mail the following documents to the Purchaser, with a copy to the Insurance Company.</p> <ol style="list-style-type: none"> i). Four copies of the Supplier's invoice showing Goods description, quantity, unit price and total amount. ii). Original and four copies of the negotiable clean, on board bill of lading marked "freight prepaid" and four copies of non negotiable bill of lading. iii). Four Copies of the packing list identifying contents of each package. iv). Insurance certificate. v). Manufacturer's or Supplier's warranty certificate. vi). Inspection certificate, issued by the nominated inspection agency and the manufacturer's factory inspection report. vii). Certificate of origin. <p>The above documents shall be received by the Purchaser at least one week before arrival of the Goods at the port or place of arrival and, if not received, the Supplier will be responsible for any consequent expenses.</p> <p><u>For Goods from within the Purchaser's Country</u> (as per Incoterms EXW):</p> <p>Upon delivery of the Goods to the transporter, the Supplier shall notify the Purchaser and send the following documents to the Purchaser:</p> <ol style="list-style-type: none"> i). Four copies of the Supplier's invoice showing the description of the Goods, quantity, unit price, and total amount. ii). Delivery note, railway receipt, or truck receipt. iii). Manufacturer's or Supplier's warranty certificate. iv). Inspection certificate issued by the nominated inspection agency, and the supplier's factory inspection report; and v). Certificate of origin. <p>The Purchaser shall receive the above documents before the arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.</p>
GCC 15.2	The bid price shall be fixed and price adjustment shall not be allowed.
GCC 16.1	<p>For Goods supplied from outside the Purchaser's country:</p> <p>(a) Advance Payment: Ten (10) percent of the Contract Price shall be paid to the supplier as per following</p>

	<p>Within fifteen (15) days of signing of the Contract the supplier shall presents a request for payment (invoice) accompanied by an Advance Payment Security in the form of a bank guarantee for an amount equal to the amount of the payment, and that shall be valid until the Goods are delivered. The security shall be in the form as specified in Section IX, Contract Forms. Any delay in this account shall be on the part of the supplier and the same shall be detected from the delivery period.</p> <p>Within fifteen (15) days after receipt of above said documents, NTDC shall make the advance payment. Any delay in this regard shall be on the account of the purchaser and the same shall be added to the delivery period.</p> <p>Supplier shall furnish all the relevant information required for opening of LC to NTDC within 30 days from the issuance of NOA. The said information shall be sent to Dy. Manager (F&TA) LC Section, Room No.619 WAPDA House Lahore with a copy to CE (MP&M) 622 WAPDA House Lahore. LC section of NTDC shall provide the draft LC to the supplier within 7 days from the receipt of above mentioned information. The draft LC shall be vetted by the supplier within 3 working days and returned to NTDC.</p> <p>(b) On Shipment: The Purchaser shall pay the Supplier eighty (80) percent of the Contract Price of the Goods shipped through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in its country under the ADB commitment procedure, upon submission of documents specified in SCC Clause 12.1.</p>
	<p>(c) On Acceptance: Ten (10) percent of the Contract Price of Goods received shall be paid within twenty-eighty (28) days of receipt of the Goods upon submission of a claim supported by the acceptance certificate issued by the Purchaser.</p> <p>For Goods supplied from within the Purchaser's country:</p> <p>(a) Advance Payment: Ten (10) percent of the Contract Price shall be paid to the supplier as per following</p> <p>Within fifteen (15) days of signing of the Contract the supplier shall presents a request for payment (invoice) accompanied by an Advance Payment Security in the form of a bank guarantee for an amount equal to the amount of the payment, and that shall be valid until the Goods are delivered. The security shall be in the form as specified in Section IX, Contract Forms. Any delay in this account shall be on the part of the supplier and the same shall be detected from the delivery period.</p>

	<p>Within fifteen (15) days after receipt of above said documents, NTDC shall make the advance payment. Any delay in this regard shall be on the account of the purchaser and the same shall be added to the delivery period.</p> <p>Supplier shall furnish all the relevant information required for opening of LC to NTDC within 30 days from the issuance of NOA. The said information shall be sent to Dy. Manager (F&TA) LC Section, Room No.619 WAPDA House Lahore with a copy to CE (MP&M) 622 WAPDA House Lahore. LC section of NTDC shall provide the draft LC to the supplier within 7 days from the receipt of above mentioned information. The draft LC shall be vetted by the supplier within 3 working days and returned to NTDC.</p> <p>(b) On Delivery: The Purchaser shall pay the Supplier eighty (80) percent of the Contract Price of the Goods shipped through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in its country under the ADB commitment procedure, upon submission of documents specified in SCC Clause 12.1</p> <p>(c) On Acceptance: Ten (10) percent of the Contract Price of Goods received shall be paid within twenty-eighty (28) days of receipt of the Goods upon submission of a claim supported by the acceptance certificate issued by the Purchaser.</p>
	<p><u>Payment of Services</u></p> <p>a) 100 % of the Contract Price for offered services shall be made by irrevocable letter of credit issued by a scheduled bank of Pakistan and advised by a bank in the country of the supplier, supported by Commitment Letter of Asian Development Bank through the proceeds of ADB Loan No. 2396 on presentation of invoice for the services actually rendered duly verified by the purchaser.</p>
GCC 16.4	The currency for payments shall be the currency or currencies stated in the bid.
GCC 18.1	The Supplier shall provide a Performance Security of 10% percent of the Contract Price. The Performance Security shall be denominated in the currency of Contract.
GCC 18.3	<p>The Performance Security shall be in the following manner and form;</p> <p>Within twenty eight (28) days of receipt of the notification of award, the successful Bidder shall furnish the performance security, in the amount given in GCC 18.1 and in the format included in Section IX of this bidding document, from a reputable bank in the Purchaser's country or abroad, acceptable to Purchaser. Performance Security shall be furnished on non-judicial stamp paper issued by Government of Pakistan of value Pak. Rs.</p>

	500/-. In case the institution issuing the security is located outside Pakistan, it shall have a correspondent financial institution located in the territory of Pakistan to make it enforceable. Any delay in submission of performance security by the successful bidder beyond the above said period shall be deducted from the delivery period.
GCC 18.4	Discharge of Performance Security shall take place within, twenty four (24) months from the date of CIF/Ex-Works delivery or twenty five (25) months from the date of FOB delivery or eighteen (18) months from the date of installation of the equipment, whichever is less.
GCC 23.2	<p>The packing, marking and documentation within and outside the packages shall be</p> <p>Packing</p> <ol style="list-style-type: none"> 1. Packing of the Goods shall be as is required to prevent their 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 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. 2. In case the equipment is shipped in container(s), each unit (viz Transformers, Circuit Breakers, CTs, PTs, Isolator/Disconnectors, Surge Arrestors etc.) shall be so packed that it can be safely transported by road/rail to ultimate destination in the country without disturbing the packing of other items.
	<ol style="list-style-type: none"> 3. The final packing shall be such that the weight and dimensions of packages are within reasonable limits in order to facilitate handling, storage and transportation 4. 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 requirement, if any, and in any subsequent instructions ordered by the Purchaser.
	<p>Identification Marking</p> <ol style="list-style-type: none"> 1. All members, parts, units or components of the Equipment shall be plainly die-indented with a number to identify the member, part, unit or component itself and with a letter to indicate the type of Goods in accordance with approved drawings. The

	<p>identification marking shall be plainly legible and durable and shall be so located that other member, part, unit or component when in its assembled position does not obscure the number or letter. All the marking on ferrous part or unit shall be made before galvanizing.</p> <p>2. Each crate, case, box, package or bundle shall have labels and or tags made from strong waterproof material and marked in indelible and non-fade-able ink securely attached hereto. These labels or tags shall indicate at least the name of the Project, the Consignee and the manufacturer, the type of Goods or component and the quantity it contains so that it can be easily checked upon delivery. A packing list shall be included in each crate or box.</p> <p>3. Each package delivered under the Contract shall be consecutively numbered and shall also be marked with code number or other identification to be approved by NTDC so that various components of the Goods, which are shipped, disassembled and which may not be interchangeable can be identified, collected and stored at the Site together. Additional information and or color coding that may reasonably be required by NTDC to facilitate identification, shipment to stores or site handling and storage will also be provided</p>
	<p>4. All boxes weighing in excess of 500 kilograms shall be adequately marked for straining and lifting. Whenever necessary the boxes shall be provided with lifting hooks attached by means of vertical rods secured to strong bottom supports.</p> <p>Container Marking</p> <p>In addition to labels and marking indicated above all packages, bundles, containers cases or boxes shall be clearly and boldly marked on two opposite sides and on the top and all reels on both sides as follows:</p> <p>Ultimate Consignee: Chief Engineer (MP&M) NTDC, Lahore, Pakistan through CRR (WAPDA) 39-Block-6 PECHS, Karachi</p> <p>Destination _____ Contract No. _____ Name of Project _____ Weight And Dimension _____ Serial Number _____</p> <p>Inscription "NTDC"</p>
<p>GCC 24.1</p>	<p>The insurance coverage shall be in the following manner:</p> <p>For goods supplied from abroad, the Supplier must insure the Goods in an amount equal to 110 % of the CIF price of the Goods.</p> <p>For goods to be supplied from within the purchasers country, the</p>

	supplier must insure the Goods in an amount equal to 110% of the EXW price of the goods from warehouse to warehouse on all risks basis, including was risks and strikes.
GCC 25.1	Obligations for transportation of the Goods shall be in accordance with incoterms 2010.
GCC 26.2	<p>Tests and Inspections specified in Section VI, Schedule of Supply, shall be carried out at the following times or milestones, and places:</p> <ol style="list-style-type: none"> 1. To ensure the manufacture of Goods to be in conformity with Contract requirements, the Manufacturer/Supplier shall institute and follow regular procedures for quality assurance during manufacture. The Manufacturer/Supplier shall maintain an independent quality control department, which shall be responsible for enforcing the quality assurance program. 2. All goods covered by the Contract shall be subject to surveillance, testing and inspection by two representatives/Inspector(s) of the Purchaser. The Inspectors may require witnessing any or all the tests to be carried out. For such purpose the Manufacturer/Supplier shall provide free access at all times during manufacture, assembly and testing to the premises in which the work is being carried out. 3. The Goods shall be subjected to the tests as per relevant provisions of the Specifications. 4. Two authorized representatives of Chief Engineer (Design) NTDC shall carry out pre-delivery inspection of the material at manufacturer's works at Purchaser's expense. However, all reasonable facilities (laboratory, tools, instruments, machines, samples etc.) as provided in the specifications or followed by Trade & Industry in general shall have to be offered to the Inspecting officers, by Manufacturer/Supplier at his expense for carrying out Testing and Inspection. 5. As soon as Goods are ready for Inspection the Manufacturer/Supplier shall give a notice of at least two month to the Chief Engineer (Design) NTDC for witnessing such tests with date, time and place. The nomination of the inspectors will be made by the purchaser within 15 days from the receipt of inspection call. The nominated inspectors shall provide copies of their valid passports to the supplier through an official covering letter within 7 days from their nomination date. The supplier shall arrange an invitation letter for the nominated inspector within 7 days from the date of receipt of passport copies. The nominated inspectors shall submit their passports

	<p>to relevant embassy in Islamabad within 5 days from receipt of invitation. However, the supplier shall fully assist the nominated inspectors in submission of visa application(s) by providing all supporting document on his part and help in attaining visa through necessary correspondence with the embassy. The delay in issuance of visa by the embassy beyond 21 days from the submission of visa application date shall be added to the delivery period. The nominated inspectors shall proceed for the inspection within 5 days from the receipt of visa(s). Within 7 days from the completion of inspection the inspectors shall issue the Inspection Certificate. Any delay in this account shall be on the part of purchaser and the same shall be added to the delivery period.</p>
	<p>6. In case the Goods fail to withstand any test during pre-delivery inspection, the cost of repeating such test and the cost of witnessing such test by the Chief Engineer (Design) NTDC's two Nos. representatives as per sub-clause 8 below, shall be borne by the Manufacturer/Supplier and the equipment released or modified to the satisfaction of the Purchaser without any additional cost to the Purchaser. Any inspection and/or witnessing of tests or the waiving of such tests and/or surveillance by the Chief Engineer (Design) NTDC or his two Nos. representatives/Inspectors shall not relieve the Manufacturer/Supplier of its obligations and responsibilities under the Contract regardless of any approval or consent given by the Purchaser or his two Nos. representatives /Inspectors.</p> <p>7. The Supplier shall keep the Purchaser / Chief Engineer Design (NTDC) informed of the progress of manufacture and notify Chief Engineer Design Eight (08) weeks in advance, in writing as to when the Goods will be ready for inspection & for shipping to wharf at the port of entry/ disembarkation and four (04) weeks in advance for any test within Pakistan. No Goods shall be shipped or delivered without issuance of pre-shipment inspection report or waiver to pre-shipment inspection, by the Chief Engineer Design. To ensure manufacture of Goods to be in conformity with Contract requirements, the Supplier shall institute and follow regular procedures for quality assurance during manufacture. The Supplier shall maintain an independent quality control department, which shall be responsible for enforcing the quality assurance program. Upon Award of the Contract, the Supplier and the Chief Engineer Design shall establish mutually acceptable quality control and inspection procedure.</p>

	<p>8. The Supplier/bidder shall provide as per requirement of Section VI, Clause-3 type test reports with the bid. In case the type test reports furnished by the bidder are not from one of reputed independent testing laboratories accredited by STL (Short-Circuit Testing Liaison) or are not relevant to the equipment offered or do not meet or comply with the ratings and other requirement of the Specifications included in this bidding document or are otherwise not to the satisfaction of the Chief Engineer Design (NTDC) in any respect, the bidder will have to arrange necessary type testing, in case of award. The type tests will be performed as per Section-VI, Clause-3 in accordance with NTDC specifications entirely at bidder cost and arrangement, without affecting the stipulated delivery schedule.</p>
GCC 27.1	The liquidated damage shall be: 0.5 % of Contract price per week or part thereof.
GCC 27.1	The maximum amount of liquidated damages shall be: Ten percent (10%) of the Contract Price.
GCC 28.3	<p>The period of validity of the Warranty shall be:</p> <p>18 months from the date of installation/commissioning or 24 months from the date of delivery of last consignment whichever is earlier. For purpose of warranty, the place of final destination is NTDC warehouse.</p>
GCC 28.5	The Supplier shall correct any defects covered by the Warranty within: Thirty (30) days of being notified by the Purchaser of the occurrence of such defects.
GCC 30.1	The amount of aggregate liability shall be hundred percent (100%) of total Contract Price.

Section IX. Contract Forms

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Agreement

THIS AGREEMENT made the _____ day of _____, _____, between _____ of _____ (hereinafter "the Purchaser"), of the one part, and _____ of _____ (hereinafter "the Supplier"), of the other part:

WHEREAS the Purchaser invited bids for certain Goods and Related Services, viz., _____ and has accepted a Bid by the Supplier for the supply of those Goods and Related Services in the sum of _____ (hereinafter "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Purchaser's Notification to the Supplier of Award of Contract;
 - (b) the Bid Submission Sheet and the Price Schedules submitted by the Supplier;
 - (c) the Special Conditions of Contract;
 - (d) the General Conditions of Contract;
 - (e) the Schedule of Supply; and
 - (f) _____.

This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

3. In consideration of the payments to be made by the Purchaser to the Supplier as indicated in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and Related 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 Related 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 _____ on the day, month and year indicated above.

Signed by _____ (for the Purchaser)

Signed by _____ (for the Supplier)

Performance Security

Date: _____

Contract Name and No. : _____

To: _____

WHEREAS _____ (hereinafter "the Supplier") has undertaken, pursuant to Contract No. _____ dated _____, _____ to supply _____ (hereinafter "the Contract").

AND WHEREAS it has been stipulated by you in the aforementioned Contract that the Supplier shall furnish you with a security _____ issued by a reputable guarantor for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS the undersigned _____, legally domiciled in _____, (hereinafter "the Guarantor"), have agreed to give the Supplier a security:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the _____ Supplier, _____ up _____ to _____ a _____ total _____ of _____ and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract, without cavil or argument, any sum or sums within the limits of _____ as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This security is valid until the _____ day of _____, _____.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the security for and on behalf of _____

Date _____

Advance Payment Security

Date: _____

Contract Name and No. : _____

To: _____

In accordance with the payment provision included in the Contract, in relation to advance payments, _____ (hereinafter called "the Supplier") shall deposit with the Purchaser a security consisting of _____, to guarantee its proper and faithful performance of the obligations imposed by said Clause of the Contract, in the amount of _____.

We, the undersigned _____, legally domiciled in _____ (hereinafter "the Guarantor"), as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligor and not as surety merely, the payment to the Purchaser on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding _____.

This security shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until _____, _____.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the security for and on behalf of _____

Date _____