



*Ministry of Energy
(Power Division)*

Procurement of Goods/Services

PK-MOE-526145-GO-RFB / Procurement of IT Infrastructure for PPMC

LOT 1	Networking (IT Infrastructure & Computing)
LOT 2	Data Center Facility Improvement and Smart Screens
LOT 3	Point to Point (P2P) Connectivity
LOT 4	Workstation (High-End) with UPS
LOT 5	Network Printers
LOT 6	HCI/ Virtualization & Servers Machine

Note: Bidders may submit bids lot wise and evaluation as well as award of contract will be lot wise

(One Envelop Bidding Process)

January, 2026

Bidding Document for Procurement of Goods/Services

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No: PK-MOE-526145-GO-RFB

Project: Procurement of IT Infrastructure for PPMC

Country: Pakistan

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PART 1 – Bidding Procedures

Section I. Instructions to Bidders

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Section I. Instructions to Bidders

A. General

1. **Scope of Bid**
 - 1.1 In connection with the Invitation for Bids, **specified in the Bid Data Sheet (BDS)**, the Purchaser, **as specified in the BDS**, issues these Bidding Documents for the supply of Goods/Services and Related Services incidental thereto as specified in Section VII, Schedule of Requirements. The name, identification and number of lots (contracts) of this National Competitive Bidding (NCB) procurement are **specified in the BDS**.
 - 1.2 Throughout these Bidding Documents:
 - (a) the term “in writing” means communicated in written form (e.g. by mail, e-mail, fax, telex) 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”) **specified in the BDS** has applied for or received financing (hereinafter called “funds”) from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called “the Bank”) in an amount **specified in BDS**, toward the project named **in BDS**. The Borrower intends to apply a portion of the funds to eligible payments under the contract for which these Bidding Documents are issued.
 - 2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the Loan (or other financing) account for the purpose of any payment to persons or entities, or for any import of Goods/Services, if such payment or import, to the knowledge of the Bank, is prohibited by decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).
3. **Corrupt and Fraudulent Practices**
 - 3.1 The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Section VI.
 - 3.2 In further pursuance of this policy, Bidders shall permit and shall cause its agents (where declared or not), sub-contractors, sub-consultants, service providers or suppliers and to permit the Bank to inspect all accounts, records and other documents relating to the

submission of the application, bid submission (in case prequalified), and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

- 4. Eligible Bidders**
- 4.1 A Bidder may be a firm that is a private entity, a government-owned entity—subject to ITB 4.5—or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution. **Unless specified in the BDS**, there is no limit on the number of members in a JV.
- 4.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:
- (a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
 - (b) receives or has received any direct or indirect subsidy from another Bidder; or
 - (c) has the same legal representative as another Bidder; or
 - (d) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process; or
 - (e) 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 such Bidder is involved. However, this does not limit the inclusion of the same subcontractor in more than one bid; or
 - (f) any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the bid; or
 - (g) any of its affiliates has been hired (or is proposed to be hired) by the Purchaser or Borrower for the Contract implementation; or
 - (h) would be providing Goods/Services, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 2.1 that it provided or

were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or

- (i) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding documents or specifications of the contract, and/or the bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the procurement process and execution of the contract

- 4.3 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.7. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed sub-contractors or sub-consultants for any part of the Contract including related Services.
- 4.4 A Bidder that has been sanctioned by the Bank in accordance with the above ITB 3.1, including in accordance with the Bank's Guidelines on Preventing and Combating Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants ("Anti-Corruption Guidelines"), shall be ineligible to be prequalified for, bid for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address **specified in the BDS**.
- 4.5 Bidders that are Government-owned enterprises or institutions in the Purchaser's Country may participate only if they can establish that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not dependent agencies of the Purchaser. To be eligible, a government-owned enterprise or institution shall establish to the Bank's satisfaction, through all relevant documents, including its Charter and other information the Bank may request, that it: (i) is a legal entity separate from the government (ii) does not currently receive substantial subsidies or budget support; (iii) operates like any commercial enterprise, and, inter alia, is not obliged to pass on its surplus to the government, can acquire rights and liabilities, borrow funds and be liable for repayment of its debts, and can be declared bankrupt; and (iv) is not bidding for

a contract to be awarded by the department or agency of the government which under their applicable laws or regulations is the reporting or supervisory authority of the enterprise or has the ability to exercise influence or control over the enterprise or institution.

- 4.6 A Bidder shall not be under suspension from bidding by the Purchaser as the result of the operation of a Bid-Securing Declaration.
- 4.7 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of Goods/Services or the contracting of works or services required; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of Goods/Services or contracting of works or services from that country, or any payments to any country, person, or entity in that country.
- 4.8 A Bidder shall provide such evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

5. Eligible Goods/Services and Related Services

- 5.1 All the Goods/Services and Related Services to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries.
- 5.2 For purposes of this Clause, the term "Goods/Services" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, installation, training, and initial maintenance.
- 5.3 The term "origin" means the country where the Goods/Services have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

B. Contents of Bidding Document

6. Sections of Bidding Document

- 6.1 The Bidding Documents consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 8.

PART 1 Bidding Procedures

- Section I. Instructions to Bidders (ITB)
- Section II. Bidding Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria

- Section IV. Bidding Forms
- Section V. Eligible Countries
- Section VI. Bank Policy-Corrupt and Fraudulent Practices

PART 2 Supply Requirements

- Section VII. Schedule of Requirements

PART 3 Contract

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

- 6.2 The Invitation for Bids issued by the Purchaser is not part of the Bidding Document.
- 6.3 Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre-Bid meeting (if any), or Addenda to the Bidding Document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Purchaser shall prevail.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents and to furnish with its Bid all information or documentation as is required by the Bidding Documents.

7. Clarification of Bidding Documents

- 7.1 A Bidder requiring any clarification of the Bidding Document shall contact the Purchaser in writing at the Purchaser's address **specified in the BDS**. The Purchaser will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of bids within a period **specified in the BDS**. The Purchaser shall forward copies of its response to all Bidders who have acquired the Bidding Documents in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so **specified in the BDS**, the Purchaser shall also promptly publish its response at the web page **identified in the BDS**. Should the clarification result in changes to the essential elements of the Bidding Documents, the Purchaser shall amend the Bidding Documents following the procedure under ITB 8 and ITB 22.2.

8. Amendment of Bidding Document

- 8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addenda.
- 8.2 Any addendum issued shall be part of the Bidding Documents and shall be communicated in writing to all who have obtained the

Bidding Documents from the Purchaser in accordance with ITB 6.3. The Purchaser shall also promptly publish the addendum on the Purchaser's web page in accordance with ITB 7.1.

- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB 22.2.

C. Preparation of Bids

- 9. Cost of Bidding** 9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 10. Language of Bid** 10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in the language **specified in the BDS**. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into the language **specified in the BDS**, in which case, for purposes of interpretation of the Bid, such translation shall govern.
- 11. Documents Comprising the Bid** 11.1 The Bid shall comprise the following:
- (a) Letter of Bid in accordance with ITB 12;
 - (b) completed schedules , in accordance with ITB 12 and 14
 - (c) Bid Security or Bid-Securing Declaration, in accordance with ITB 19.1;
 - (d) alternative bids, if permissible, in accordance with ITB 13;
 - (e) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.2;
 - (f) documentary evidence in accordance with ITB 17 establishing the Bidder's qualifications to perform the contract if its bid is accepted;
 - (g) documentary evidence in accordance with ITB 17 establishing the Bidder's eligibility to bid;
 - (h) documentary evidence in accordance with ITB 16, that the Goods/Services and Related Services to be supplied by the Bidder are of eligible origin;
 - (i) documentary evidence in accordance with ITB 16 and 30, that the Goods/Services and Related Services conform to the Bidding Documents;

(j) any other document **required in the BDS.**

11.2 In addition to the requirements under ITB 11.1, bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all members and submitted with the bid, together with a copy of the proposed Agreement.

11.3 The Bidder shall furnish in the Letter of Bid information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

12. Letter of Bid and Price Schedules

12.1. The Letter of Bid and Price Schedules shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.2. All blank spaces shall be filled in with the information requested.

13. Alternative Bids

13.1. Unless otherwise **specified in the BDS**, alternative bids shall not be considered.

14. Bid Prices and Discounts

14.1 The prices and discounts quoted by the Bidder in the Letter of Bid and in the Price Schedules shall conform to the requirements specified below.

14.2 All lots (contracts) and items must be listed and priced separately in the Price Schedules.

14.3 The price to be quoted in the Letter of Bid in accordance with ITB 12.1 shall be the total price of the bid, excluding any discounts offered.

14.4 The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid, in accordance with ITB 12.1.

14.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, **unless otherwise specified in the BDS**. A bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected, pursuant to ITB 29. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.

14.6 If so specified in ITB 1.1, bids are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise **specified in the BDS**, prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer discounts for the award of more than one Contract shall specify in

their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITB 14.4 provided the bids for all lots (contracts) are opened at the same time.

14.7 The terms EXW, DDP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, **as specified in the BDS.**

14.8 Prices shall be quoted as specified in each Price Schedule included in Section IV, Bidding Forms. The dis-aggregation of price components is required solely for the purpose of facilitating the comparison of bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V, Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V, Eligible Countries. Prices shall be entered in the following manner:

(a) For Goods/Services manufactured in the Purchaser's Country:

- (i) the price of the Goods/Services quoted EXW (ex-works, ex-factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods/Services;
- (ii) any Purchaser's Country sales tax and other taxes which will be payable on the Goods/Services if the contract is awarded to the Bidder; and
- (iii) the price for inland transportation, insurance, and other local services required to convey the Goods/Services to their final destination (Project Site) **specified in the BDS.**

(b) For Goods/Services manufactured outside the Purchaser's Country, to be imported:

- (i) the price of the Goods/Services, quoted DDP named place of destination, in the Purchaser's Country, **as specified in the BDS;**
- (ii) the price for inland transportation, insurance, and other local services required to convey the Goods/Services from the named place of

destination to their final destination (Project Site)
specified in the BDS;

- (c) For Goods/Services manufactured outside the Purchaser's Country, already imported:
- (i) the price of the Goods/Services, including the original import value of the Goods/Services; plus any mark-up (or rebate); plus any other related local cost, and custom duties and other import taxes already paid or to be paid on the Goods/Services already imported.
 - (ii) the custom duties and other import taxes already paid (need to be supported with documentary evidence) or to be paid on the Goods/Services already imported;
 - (iii) the price of the Goods/Services, obtained as the difference between (i) and (ii) above;
 - (iv) any Purchaser's Country sales and other taxes which will be payable on the Goods/Services if the contract is awarded to the Bidder; and
 - (v) the price for inland transportation, insurance, and other local services required to convey the Goods/Services from the named place of destination to their final destination (Project Site)
specified in the BDS.
- (d) for Related Services, other than inland transportation and other services required to convey the Goods/Services to their final destination, whenever such Related Services are specified in the Schedule of Requirements:
- (i) the price of each item comprising the Related Services (inclusive of any applicable taxes).

- 15. Currencies of Bid and Payment**
- 15.1 The currency(ies) of the bid and the currency(ies) of payments shall be **as specified in the BDS**. The Bidder shall quote in the currency of the Purchaser's Country the portion of the bid price that corresponds to expenditures incurred in the currency of the Purchaser's country, unless otherwise **specified in the BDS**.
- 15.2 The Bidder may express the bid price in any currency. If the Bidder wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but shall use no more than three foreign currencies in addition to the currency of the Purchaser's Country.
- 16. Documents Establishing the**
- 16.1 To establish the eligibility of the Goods/Services and Related Services in accordance with ITB 5, Bidders shall complete the

- Eligibility and Conformity of the Goods/Services and Related Services**
- country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.
- 16.2 To establish the conformity of the Goods/Services and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods/Services conform to the technical specifications and standards specified in Section VII, Schedule of Requirements.
- 16.3 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods/Services and Related Services, demonstrating substantial responsiveness of the Goods/Services and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII, Schedule of Requirements.
- 16.4 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods/Services during the period **specified in the BDS** following commencement of the use of the Goods/Services by the Purchaser.
- 16.5 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Section VII, Schedule of Requirements.
- 17. Documents Establishing the Eligibility and Qualifications of the Bidder**
- 17.1 To establish Bidder's their eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid, included in Section IV, Bidding Forms.
- 17.2 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:
- (a) that, if **required in the BDS**, a Bidder that does not manufacture or produce the Goods/Services 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/Services to supply these Goods/Services in the Purchaser's Country;
 - (b) that, if **required in the BDS**, in case of a Bidder not doing business within the Purchaser's Country, the Bidder is or will be (if awarded the contract) 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; and

- (c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.

18. Period of Validity of Bids

- 18.1. Bids shall remain valid for the period **specified in the BDS** after the bid submission deadline date prescribed by the Purchaser in accordance with ITB 22.1. A bid valid for a shorter period shall be rejected by the Purchaser as nonresponsive.
- 18.2. 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 Clause 19, 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, except as provided in ITB 18.3.
- 18.3. If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial bid validity, the Contract price shall be determined as follows:
 - (a) In the case of fixed price contracts, the Contract price shall be the bid price adjusted by the factor **specified in the BDS**.
 - (b) In the case of adjustable price contracts, no adjustment shall be made.
 - (c) In any case, bid evaluation shall be based on the bid price without taking into consideration the applicable correction from those indicated above.

19. Bid Security

- 19.1. The Bidder shall furnish as part of its bid, either a Bid-Securing Declaration or a bid security, as **specified in the BDS**, in original form and, in the case of a bid security. In the amount and currency **specified in the BDS**.
- 19.2. A Bid Securing Declaration shall use the form included in Section IV, Bidding Forms.
- 19.3. If a bid security is specified pursuant to ITB 19.1, the bid security shall be a demand guarantee in any of the following forms at the Bidder's option :
 - (a) an unconditional guarantee issued by a bank or financial institution (such as an insurance, bonding or surety company);

- (b) an irrevocable letter of credit;
- (c) a cashier's or certified check; or
- (d) another security **specified in the BDS,**

from a reputable source from an eligible country. If the unconditional guarantee is issued by a financial institution located outside the Purchaser's Country, the issuing financial institution shall have a correspondent financial institution located in the Purchaser's Country to make it enforceable. In the case of a bank guarantee, the bid security shall be submitted either using the Bid Security Form included in Section IV, Bidding Forms, or in another substantially similar format approved by the Purchaser prior to bid submission. The bid security shall be valid for twenty-eight (28) days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 18.2.

- 19.4. If a Bid Security is specified pursuant to ITB 19.1, any bid not accompanied by a substantially responsive Bid Security shall be rejected by the Purchaser as non-responsive.
- 19.5. If a Bid Security is specified pursuant to ITB 19.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the contract and furnishing the Performance Security pursuant to ITB 42.
- 19.6. The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the contract and furnished the required performance security.
- 19.7. The Bid Security may be forfeited 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 Letter of Bid, or any extension thereto provided by the Bidder ; or
 - (b) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB41; or
 - (ii) furnish a performance security in accordance with ITB 42.
- 19.8. The bid security or Bid- Securing Declaration of a JV must be in the name of the JV that submits the bid. If the JV has not been legally constituted into a legally enforceable JV at the time of bidding, the bid security or Bid-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITB 4.1 and ITB 11.2.

- 19.9. If a bid security is **not required in the BDS**, pursuant to ITB 19.1, and
- (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bid, or
 - (b) if the successful Bidder fails to: sign the Contract in accordance with ITB 41; or furnish a performance security in accordance with ITB 42;

the Borrower may, **if provided for in the BDS**, declare the Bidder ineligible to be awarded a contract by the Purchaser for a period of time **as stated in the BDS**.

20. Format and Signing of Bid

- 20.1 The Bidder shall prepare one original of the documents comprising the bid as described in ITB 11 and clearly mark it "ORIGINAL." Alternative bids, if permitted in accordance with ITB 13, shall be clearly marked "ALTERNATIVE." In addition, the Bidder shall submit copies of the bid, in the number **specified in the BDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 20.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation **as specified in the BDS** and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid where entries or amendments have been made shall be signed or initialed by the person signing the bid.
- 20.3 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 20.4 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the bid.

D. Submission and Opening of Bids

21. Sealing and Marking of Bids

- 21.1. The Bidder shall enclose the original and all copies 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.
- 21.2. The inner and outer envelopes shall:
- (a) bear the name and address of the Bidder;
 - (b) be addressed to the Purchaser in accordance with ITB 24.1;

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- (c) bear the specific identification of this bidding process indicated in ITB 1.1; and
 - (d) bear a warning not to open before the time and date for bid opening.
- 21.3. If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the bid.
- 22. Deadline for Submission of Bids**
- 22.1. Bids must be received by the Purchaser at the address and no later than the date and time **specified in the BDS**. When so **specified in the BDS**, bidders shall have the option of submitting their bids electronically. Bidders submitting bids electronically shall follow the electronic bid submission procedures **specified in the BDS**.
- 22.2. The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
- 23. Late Bids**
- 23.1. The Purchaser shall not consider any bid that arrives after the deadline for submission of bids, in accordance with ITB 22. Any bid received by the Purchaser after the deadline for submission of bids shall be declared late, rejected, and returned unopened to the Bidder.
- 24. Withdrawal, Substitution, and Modification of Bids**
- 24.1. A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITB 20.2, (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) prepared and submitted in accordance with ITB 20 and 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” or “MODIFICATION;” and
 - (b) received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB 22.
- 24.2. Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders.
- 24.3. No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Bid or any extension thereof.

25. Bid Opening

- 25.1. Except as in the cases specified in ITB 23 and 24, the Purchaser shall publicly open and read out in accordance with ITB 25.3 all bids received by the deadline at the date, time and place **specified in the BDS** in the presence of Bidders' designated representatives and anyone who choose to attend. Any specific electronic bid opening procedures required if electronic bidding is permitted in accordance with ITB 22.1, shall be as **specified in the BDS**.
- 25.2. First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. If the withdrawal envelope does not contain a copy of the "power of attorney" confirming the signature as a person duly authorized to sign on behalf of the Bidder, the corresponding bid will be opened. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening. Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at bid opening. Envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening. Only bids that are opened and read out at Bid opening shall be considered further.
- 25.3. All other envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the total Bid Prices, per lot (contract) if applicable, including any discounts and alternative bids; the presence or absence of a Bid Security, if required; and any other details as the Purchaser may consider appropriate. Only discounts and alternative bids read out at Bid opening shall be considered for evaluation. The Letter of Bid and the Price Schedules are to be initialed by representatives of the Purchaser attending bid opening in the manner **specified in the BDS**. The Purchaser shall neither discuss the merits of any bid nor reject any bid (except for late bids, in accordance with ITB 25.1).
- 25.4. 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 (contract) if applicable, including any discounts, and alternative bids; and the presence or absence of a Bid Security, 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.

E. Evaluation and Comparison of Bids

- 26. Confidentiality**
- 26.1 Information relating to the evaluation of bids and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with the bidding process until information on Contract Award is communication to all Bidders in accordance with ITB 40.
- 26.2 Any effort by a Bidder to influence the Purchaser in the evaluation or contract award decisions may result in the rejection of its Bid.
- 26.3 Notwithstanding ITB 26.2, from the time of bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.
- 27. Clarification of Bids**
- 27.1 To assist in the examination, evaluation, comparison of the bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids, in accordance with ITB 31.
- 27.2 If a Bidder does not provide clarifications of its bid by the date and time set in the Purchaser's request for clarification, its bid may be rejected.
- 28. Deviations, Reservations, and Omissions**
- 28.1 During the evaluation of bids, the following definitions apply:
- (a) "Deviation" is a departure from the requirements specified in the Bidding Documents;
 - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Documents; and
 - (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Documents

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- 29. Determination of Responsiveness**
- 29.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself, as defined in ITB 11.
- 29.2 A substantially responsive Bid is one that meets the requirements of the Bidding Documents without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:
- (a) if accepted, would
 - (i) affect in any substantial way the scope, quality, or performance of the Goods/Services and Related Services specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or
 - (b) if rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.
- 29.3 The Purchaser shall examine the technical aspects of the bid submitted in accordance with ITB 16 and ITB 17, in particular, to confirm that all requirements of Section VII, Schedule of Requirements have been met without any material deviation or reservation, or omission.
- 29.4 If a bid is not substantially responsive to the requirements of Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.
- 30. Nonconformities, Errors and Omissions**
- 30.1 Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformities in the Bid.
- 30.2 Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
- 30.3 Provided that a bid is substantially responsive, the Purchaser shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component.
- 31. Correction of Arithmetical Errors**
- 31.1 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:
- (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by

the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;

- (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

31.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB 31.1, shall result in the rejection of the Bid.

32. Conversion to Single Currency

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

33. Margin of Preference

33.1 **Unless otherwise specified in the BDS**, a margin of preference shall not apply.

34. Evaluation of Bids

34.1 The Purchaser shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.

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

- (a) evaluation will be done for Items or Lots (contracts), as **specified in the BDS**; and the Bid Price as quoted in accordance with clause 14;
- (b) price adjustment for correction of arithmetic errors in accordance with ITB 31.1;
- (c) price adjustment due to discounts offered in accordance with ITB 14.3;
- (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 32;
- (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 30.3;
- (f) the additional evaluation factors are specified in Section III, Evaluation and Qualification Criteria;

- 34.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.
- 34.4 If these Bidding Documents allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated price of the lot (contract) combinations, including any discounts offered in the Letter of Bid Form, is specified in Section III, Evaluation and Qualification Criteria
- 34.5 The Purchaser's evaluation of a bid will exclude and not take into account:
- (a) in the case of Goods/Services manufactured in the Purchaser's Country, sales and other similar taxes, which will be payable on the Goods/Services if a contract is awarded to the Bidder;
 - (b) in the case of Goods/Services manufactured outside the Purchaser's Country, already imported or to be imported, customs duties and other import taxes levied on the imported Good, sales and other similar taxes, which will be payable on the Goods/Services if the contract is awarded to the Bidder;
 - (c) any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
- 34.6 The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the Bid Price quoted in accordance with ITB 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods/Services and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids, unless otherwise **specified in the BDS** from amongst those set out in Section III, Evaluation and Qualification Criteria. The criteria and methodologies to be used shall be as specified in ITB 34.2 (f).

35. Comparison of Bids

- 35.1 The Purchaser shall compare the evaluated prices of all substantially responsive bids established in accordance with ITB 34.2 to determine the lowest evaluated bid. The comparison shall be on the basis of DDP (place of final destination) prices for imported Goods/Services and EXW prices, plus cost of inland transportation and insurance to place of destination, for Goods/Services manufactured within the Borrower's country, together with prices for any required installation, training, commissioning and other services. The evaluation of prices shall not take into account custom duties and other taxes levied on imported Goods/Services quoted DDP and sales and similar taxes levied in connection with the sale or delivery of Goods/Services.

- 36. Qualification of the Bidder**
- 36.1 The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.
- 36.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17.
- 36.3 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 qualifications to perform satisfactorily.
- 37. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids**
- 37.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.

F. Award of Contract

- 38. Award Criteria**
- 38.1 Subject to ITB 37.1, the Purchaser shall award the Contract to the Bidder whose bid has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
- 39. Purchaser's Right to Vary Quantities at Time of Award**
- 39.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods/Services and Related Services originally specified in Section VII, Schedule of Requirements, provided this does not exceed the percentages **specified in the BDS**, and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.
- 40. Notification of Award**
- 40.1 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. The notification letter (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the sum that the Purchaser will pay the Supplier in consideration of the supply of Goods/Services (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price"). At the same time, the Purchaser shall also notify all other Bidders of the results of the bidding and shall publish in *UNDB online* the results identifying the bid and lot (contract) 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 successful Bidder, and the Price it offered, as well as the duration and summary scope of the contract awarded.

40.2 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.

40.3 The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after notification of award in accordance with ITB 40.1, requests in writing the grounds on which its bid was not selected.

41. Signing of Contract

41.1 Promptly after notification, the Purchaser shall send the successful Bidder the Contract Agreement.

41.2 Within twenty-eight (28) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.

41.3 Notwithstanding ITB 41.2 above, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/Goods/Services, systems or services to be supplied, where such export restrictions arise from trade regulations from a country supplying those products/Goods/Services, systems or services, the Bidder shall not be bound by its bid, always provided however, that the Bidder can demonstrate to the satisfaction of the Purchaser and of the Bank that signing of the Contract Agreement has not been prevented by any lack of diligence on the part of the Bidder in completing any formalities, including applying for permits, authorizations and licenses necessary for the export of the products/Goods/Services, systems or services under the terms of the Contract.

42. Performance Security

42.1 Within twenty eight (28) days of the receipt of notification of award from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCC, subject to ITB 34.5, using for that purpose the Performance Security Form included in Section X, Contract Forms, or another Form acceptable to the Purchaser. If the Performance Security furnished by the successful Bidder is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Bidder to be acceptable to the Purchaser. A foreign institution providing a bond shall have a

correspondent financial institution located in the Purchaser's Country.

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

Section II. Bid Data Sheet (BDS)

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

ITB Clause Reference	A. General
ITB 1.1	The reference number of the Invitation for Bids is : <i>PK-MOE-526145-GO-RFB</i>
ITB 1.1	The Purchaser is: Power Planning & Monitoring Company(PPMC), <i>PIU-EDEIP, Ministry of Energy (Power Division)</i>
ITB 1.1	The Purchaser is: PPMC, <i>PIU-EDEIP, Ministry of Energy (Power Division)</i> The name of the RFB is: <i>PK-MOE-526145-GO-RFB Procurement of IT Infrastructure for PPMC IT Infrastructure & Computing Networking, Data Center Facility Improvement and Smart Screens, Point to Point (P2P) Connectivity, Workstation (High-End) with UPS, Network Printers, HCI/ Virtualization & Server Machine</i> The identification number is: <i>PK-MOE-526145-GO-RFB</i>
ITB 2.1	The Borrower is: Islamic Republic of Pakistan
ITB 2.1	Loan or Financing Agreement amount: US\$ 195 Million
ITB 2.1	The name of the Project is: <i>ELECTRICITY DISTRIBUTION EFFICIENCY IMPROVEMENT PROJECT (EDEIP)</i>
ITB 4.1	¹ Maximum number of members in the JV shall be: Two
IITB 4.4	A list of debarred firms and individuals is available on the Bank's external website: http://www.worldbank.org/debarr .
B. Contents of Bidding Documents	
ITB 7.1	For <u>Clarification of bid purposes</u> only in writing, the Purchaser's address is: Attention: Director Services POWER PLANNING & MONITORING COMPANY OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, ISLAMABAD City: Islamabad Email: info@ppmc.gov.pk Phone:051-9211301 Country: Pakistan

¹ In case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. Therefore, the Qualification Criteria stated in Section III - Evaluation and Qualification Criteria shall be met separately by each member of the JV for bid evaluation. This means that each JV member must meet the minimum requirements stated in qualification criteria. The attention of the bidders is also invited to the aspect that as per qualification criteria explained in Section III, a bidder either bidding as a JV or single entity, can either be manufacturer or authorized agent of manufacturer. Even in case of a bid by authorized agent, there are some mandatory requirements to be met by the manufacturer whose goods are being offered by an authorized agent.

In case of JV payments will only be made into account of JV

	Requests for clarification should be received by the Employer no later than: Seven (07) days before the submission deadline.
ITB 7.1	Web page: www.ppmc.gov.pk ; www.power.gov.pk
ITB 7.4	A Pre-Bid meeting “shall” take place at the following date, time and place: Date: 16 th February 2026 (Monday) Time: <u>11:00 am</u> Place: POWER PLANNING & MONITORING COMPANY OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, F-5/1 ISLAMABAD City: ISLAMABAD for participation at meeting e-mail at info@ppmc.gov.pk Phone: 051-9211301. A site visit will be arranged at pre-bid meeting.
	C. Preparation of Bids
ITB 10.1	The language of the bid is: English All correspondence exchange shall be in English language.
ITB 11.1 (j)	The Bidder shall submit the following additional documents in its bid: <i>As required in the evaluation & qualification criteria.</i>
ITB 13.1	Alternative Bids shall not be considered.
ITB 14.5	The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.
ITB 14.6	Prices quoted shall correspond at least to 100 percent of the items/quantities specified.
ITB 14.7	The Incoterms edition is: INCOTEM (2020 Edition)
ITB 14.8 (b) (i) and (c) (v)	Place of Destination: (on DDP basis) with following destination OFFICE OF POWER PLANNING & MONITORING COMPANY, OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, F-5/1, ISLAMABAD
ITB 14.8 (a) (iii);(b)(ii) and (c)(v)	“Final destination (Project Site)”: OFFICE OF POWER PLANNING & MONITORING COMPANY OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, F-5/1 ISLAMABAD
ITB 15.1	<i>Pak Rupees</i>
ITB 16.4	Period of time the Goods & Services are expected to be functioning (for the purpose of spare parts): Four (4) years Period
ITB 17.2 (a)	Manufacturer’s authorization is: required only for Lot as specified in evaluation criteria.
ITB 17.2 (b)	Support service is: required
ITB 18.1	The bid validity period shall be 120 days.
ITB 18.3 (a)	NA
ITB 19.1	Bid Security will be submitted by bidders in the Name of “ Electricity Distribution & Efficiency Improvement Project ” in shape of CDR, SDR, Pay Order, Demand Draft, Banker’s Cheque, or Unconditional Bank Guarantee @2% of total bid value for each lot , bidder is participating issued by a scheduled Bank in Pakistan.
ITB 19.3 (d)	NA
ITB 19.9	NA

ITB 20.1	In addition to the original of the bid, the number of copies is: One hard copy
ITB 20.2	In case of joint venture the written confirmation of authorization to sign on behalf of the Bidder shall consist of: On the official letter head of the firm in case of JV all JV partners will authorize the signatory to sign the bid.
D. Submission and Opening of Bids	
ITB 22.1	For bid submission purposes only, the Purchaser's address is: OFFICE OF THE MANAGING DIRECTOR (MD) POWER PLANNING & MONITORING COMPANY, OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, F-5/1 ISLAMABAD Attention: DIRECTOR SERVICES City: Islamabad Country: Pakistan The deadline for bid submission is: Date: 31 st March 2026 Time: <u>11:00 AM</u> Bidders shall not have the option of submitting their bids electronically
ITB 25.1	The bid opening shall take place at: OFFICE OF THE MANAGING DIRECTOR (MD) POWER PLANNING & MONITORING COMPANY OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, F-5/1 ISLAMABAD. PHONE: 051-9211301 051-9211302 City: ISLAMABAD Country: Pakistan Date: 31 st March 2026 Time: <u>11:30 AM</u>
ITB 25.3	The Letter of Bid and Price Schedules shall be initialed by representatives of the Procurement Committee conducting Bid opening.
E. Evaluation and Comparison of Bids	
ITB 32.1	The currency that shall be used for bid evaluation and comparison purposes is: PKR (Pakistani Rupees).
ITB 33.1	Margin of Preference: N/A
ITB 34.2(a)	Technical Evaluation will be done Lot wise as per specifications
ITB 34.6	The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria: (a) the cost of major replacement components, mandatory spare parts, and service: Not Applicable (b) the availability in the Purchaser's Country of spare parts and after-sales services for the equipment offered in the bid: Not Applicable
F. Award of Contract	
ITB 39.1	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

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1. Technical Evaluation (ITB 34)

Technical Evaluation will be carried out based schedule of requirements/ technical specifications provided in section VII(3) by ensuring compliance.

2. Qualification (ITB 36)

- i) The bidder will be declared technically qualified if Marks obtained of Evaluation Criteria ≥ 70 .
- ii) The contract will be awarded to the financially lowest bidder. In case if lowest financial value is tied between two or more bidders, bid will be awarded to the bidder having highest score in technical evaluation.

Qualification Criteria

The qualification will be done on the basis of following parameters for eligibility of the Bidder:

Sr.	Factors	Qualification
I	Registration/Incorporation/Business Certificate	Mandatory
	Valid Income Tax Registration	Mandatory
	Valid General Sales Tax Registration (Active with FBR)	Mandatory
	Compliance to technical specifications of BoQ for competing LOT on Letter head of company.	Mandatory
	Compliance to schedule of supplies	Mandatory
	Manufacturer Authorization Letter/Form (MAL/MAF) for Lot 1, Lot 2 , Lot 4 and Lot 6.	Mandatory
	Principal valid Partnership certificate (For Lot 1, Lot 4, Lot5 and Lot 6)	Mandatory
	Must have Average annual turnover of at least PKR 50 million for Lot 1 and Lot 6 and for other Lots at least Five (5) million in the last Two years – Income Tax Returns must be attached for all lots	Mandatory
	Must have Office in Islamabad/Rawalpindi	Mandatory
	For LOT 1, LOT 2, LOT 4 and LOT 6 Documentation: The bidder must also provide hard printed sets along with Detailed Technical Proposal, Datasheets.	Mandatory
	Bid Validity period of 120 days from date of opening of Bids	Mandatory
	Bidders must ensure that the proposed solution is not End of Sale/ End of Support for next Five years. Share the details.	Mandatory
	For LOT 1, LOT 3 and LOT 6 the bidder must have at least Three years of experience in operations and maintenance. Country wide SLAs of services with bidder must have verifiable customer support desk 24/7.	Mandatory

Evaluation Criteria

The evaluation will be done on the basis of following parameters for eligibility of the Bidder:

II.	<p>For Lot 1, 4 & 6: Similar Project having same scale and complexity each project =Twenty Marks (20)</p> <p>For Lot 2, 3 and 5: Similar Projects having same scale and complexity each project =Thirty Marks (30)</p>	Sixty Marks (60)
III.	<p>List of required Staff Position residing in Islamabad / Rawalpindi. of Company (must attach certificates), Certified for Lots 1, 2,4,5 & 6 with principal</p> <ul style="list-style-type: none"> • Certified with principal per resource =20 points <p>List of required Staff Position residing in Islamabad / Rawalpindi of Company (must attach resume), For Lot 3</p> <ul style="list-style-type: none"> • Properly Qualified Team. Per resource = Ten Marks (10) 	<ul style="list-style-type: none"> • (For lots 1,2,3,4, 5 & 6 Forty (40))
Max. score		100

Note:

- i) verifiable documentary proof for all above requirements is a mandatory requirement, non-compliance will lead to disqualification.
- ii) Complete specifications with supporting document, brochures of the offered items. If specifications do not meet the tender requirements; offered material shall not be entertained.
- iii) The Refurbished, Grey smuggled products will be not accepted in any case.

3.4 Post-qualification Requirements (ITB 36.1)

After determining the qualification of the bidders, the contract shall be awarded lot wise to the lowest-evaluated bid in accordance with ITB 36.

Section IV. Bidding Forms

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Letter of Bid

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

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

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

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

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

To: **[insert complete name of Purchaser]**

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB 8)___;
- (b) We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
- (c) We have not been suspended nor declared ineligible by the Purchaser based on execution of a Bid Securing Declaration in the Purchaser's country in accordance with ITB 4.6
- (d) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods/Services: **[insert a brief description of the Goods/Services and Related Services]**;
- (e) The total price of our Bid, excluding any discounts offered in item (f) below is:

In case of only one lot, total price of the Bid **[insert the total price of the bid in words and figures, indicating the various amounts and the respective currencies]**;

In case of multiple lots, total price of each lot **[insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]**;

In case of multiple lots, total price of all lots (sum of all lots) **[insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies]**;
- (f) The discounts offered and the methodology for their application are:
 - (i) The **discounts offered are: [Specify in detail each discount offered.]**

- (ii) The exact method of calculations to determine the net price after application of discounts is shown below: **[Specify in detail the method that shall be used to apply the discounts];**
- (g) Our bid shall be valid for a period of **[specify the number of calendar days]** days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (h) If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (i) We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process in accordance with ITB 4.2(e), other than alternative bids submitted in accordance with ITB 13;
- (j) We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by a member of the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Employer's country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- (k) We are not a government owned entity/ We are a government owned entity but meet the requirements of ITB 4.5;²
- (l) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: **[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]**

Name of Recipient	Address	Reason	Amount

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

- (m) 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; and

² Bidder to use as appropriate

-
- (n) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (o) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption

Name of the Bidder* **[insert complete name of person signing the Bid]**

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

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

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

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

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

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

Bidder Information Form

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

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

ICB No.: *[insert number of bidding process]*

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

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member : <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.3. <input type="checkbox"/> In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1. <input type="checkbox"/> In case of Government-owned enterprise or institution, in accordance with ITB 4.5 documents establishing: <ul style="list-style-type: none"> • Legal and financial autonomy • Operation under commercial law • Establishing that the Bidder is not dependent agency of the Purchaser
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Bidder's JV Members Information Form

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

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

ICB No.: *[insert number of bidding process]*

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

Page _____ of _____ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. Bidder's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Bidder's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Bidder's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
6. Bidder's JV Member's authorized representative information Name: <i>[insert name of JV's Member authorized representative]</i> Address: <i>[insert address of JV's Member authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i> Email Address: <i>[insert email address of JV's Member authorized representative]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.3. <input type="checkbox"/> In case of a Government-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and absence of dependent status, in accordance with ITB 4.5.
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Price Schedule Forms

*[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods/Services and Related Services specified by the Purchaser in the Schedule of Requirements.]*

Price Schedule: Goods/Services (For Lot 1)

Currencies in accordance with ITB 15 (PKR)

Line Item N°	Description of Goods/Services	QTY	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
1	Access Switches				
(i)	Should have 48 x 1G Ethernet Ports PoE+/POE++ with total PoE budget of minimum 490W. The proposed access switches must be capable of supplying adequate Power over Ethernet (PoE) to the proposed WIFI access points, without the need for any external power injectors or auxiliary devices. Switch console cable must be included.	4			
(ii)	Should have Uplink 4 x 10G SFP+ Ports (Loaded with 2 x Multimode Short Range (300meters) 10G SFP+ Transceiver modules) Note: SFPs must be of the same OEM Brand that of quoted Switch				
(iii)	Should have 220 Gbps or more port switching capacity				
(iv)	Forwarding rate should be more than 130 Mpps				
(v)	Should be a Manageable Switch with Layer-3 features such as RIP, RIPng, OSPF & OSPFv3				
(vi)	Should support Spanning Tree Protocol, 802.1D STP, 802.1W RSTP & 802.1S MSTP				
(vii)	Should support Stacking of local and remote devices through standard Ethernet interfaces. Should support stacking of 7 switches or more.				
(viii)	Should Support Link Aggregation Protocol				
(ix)	Should have 4K or more VLANs support and 16K MAC address entries				

(x)	Should be able to provide Access Port and Trunk Port			
(xi)	Broadcast, Multicast and Unicast Storm Control Support.			
(xii)	Port Mirroring, RSPAN or equivalent must be supported			
(xiii)	Should support IPv4 routing entries 1024 or higher			
(xiv)	Should Support Time & Vlan Based ACLs. In addition the switch must be capable of configuring the bidirectional ACLs.			
(xv)	Should support SNMP v1, 2 & 3.			
(xvi)	Switch Flash must be 1GB or higher			
(xvii)	Switch RAM must be 2GB or higher			
(xviii)	Should support security features like IP Source Guard, AAA, RADIUS, 802.1x and Centralized MAC Based Authentication, DHCP Snooping etc.			
(xix)	Support 10200bytes or larger Jumbo Frame			
(xx)	QoS Support 8 Queues Per Port, Traffic classification based on IEEE 802.1p DSCP, CAR.			
(xxi)	Must have built-in surge protection on service ports, suitable for enterprise/datacenter environments. Minimum protection level should be 6kV or equivalent, compliant with IEC 61000-4-5 or similar standards.			
(xxii)	Software update patches required, whenever available during support period			
(xxiii)	Operating temperature: -5°C to 45°C			
(xxiv)	3-Years NBD Standard Equipment warranty from OEM			
(xxv)	Training and certification of Six resources by OEM			

Line Item N°	Description of Goods/Services		QTY	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
2	Wifi Controller					
(i)	Throughput	The quoted wireless controller must have 9.8Gbps or higher throughput	1			
(ii)	Interfaces	Wireless controller must have 2 × 2.5GE ports, 8 × GE Copper ports and 2 x 10G SFP+ ports				
		Controller console cable must be included				
		1 x management interface along with USB port				
(iii)	Maximum number of Clients	Users to be supported by the wireless controller must be 4094 at least or more				
(iv)	Licenses	The quoted Controller must have licenses for 10 APs at least or more				
		The quoted controller must have a capacity to manage atleast 142 APs				
(v)	Wireless user isolation	Supports wireless users 2-Layer isolation based on VLANs and SSIDs				
(vi)	CAPWAP	The quoted controller must assign basic AP network parameter through WLAN controller via Static IP, VLAN & connected AC address				
		Controller must be able to establish L2/L3 connection between AP and WLAN controller				
		Controller must be able to discover the APs				

		<p>automatically and make it visible over the controller for the control</p> <p>Controller must support WLAN controller discovery using DHCP option 43 and must provide NAT traversal between AP and Controller</p>				
(vii)	Roaming	The controller must be efficient enough to handle the roaming clients and handoff the clients to the other AP seamlessly and ensure the end user experience is uninterrupted upon both layer 2 and layer3 (Inter and Intra AP)				
(viii)	Gateway	Controller must provide the gateway features in order to allow the internal users to communicate with the outer world. The controller must support PPPoE, NAT, SSL VPN, IPSEC VPN & GRE				
(ix)	Access Control	The controller must provide multiple users/AP on boarding mechanisms mainly, WEP-64/128, dynamic WEP, WPA, WPA2, WPA3, 802.1x, LDAP and Portal authentication.				
(x)	QoS	The controller must be able to perform L2-L4 packet filtering, traffic classification and mark the priorities over them. The controller must also provide Intelligent bandwidth limit (equal bandwidth share algorithm)/ (user specific) in order to ensure the end-user experience.				

(xi)	RF Management	Load balancing must be supported based on traffic, user & frequency. Intelligent and AP group Load balancing support must be provided as well.				
		The Controller must be able to provide Static and Auto channel and power configuration. In addition, controller must be able to adjust the transmission rate automatically.				
(xii)	Security	The Controller must be efficient enough to detect and provide countermeasure for Rogue AP/s				
		Controller must defend the network against multiple types of attacks mainly Flooding, Spoof & Weak IV attacks.				
		The controller must provide Layer 7 Wireless Intrusion Prevention Systems (WIPS)				
(xiii)	Redundancy	Must support 1+1 Failover OR Stateful redundancy in Active/Standby or Equivalent.				
		Intelligently APs must be shared among WLAN controllers in order to provide optimized AP and it's related traffic handling.				
(xiv)	Power Saving	The controller must support Scheduled shutdown of AP RF interface & wireless service and must be able to provide Per-packet power adjustment for minimizing the power usage				

(xv)	Warranty Hardware/Software	3-Years NBD Standard Equipment warranty from OEM			
(xvi)	Training	Training and certification of Six resources by OEM			

Line Item N°	Description of Goods/Services	QTY	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
3	Wifi Access Point				
(i)	Maximum transmission speed	10			
	The AP should support IEEE 802.11be and compatibility with IEEE 802.11a/b/g/n/ac/ax. The AP should support system minimum rate up to 6.4 Gbps				
(ii)	Interfaces				
	The quoted AP must provide atleast 1 port for 100/1000M Multigigabit Ethernet, RJ-45 and 1 port for 1G/2.5G Multigigabit optical port The quoted AP must have a Console Port and USB port as well				
(iii)	POE				
	The quoted AP must be 802.11 at/af compliant.				
(iv)	Built-in Antenna				
	2.4 GHz (2x2 MIMO) 5 GHz (4x4 MIMO) 6 GHz (2x2 MIMO)				
(v)	IOT				
(vi)	Operating Temperature				
	Must support -5°C to +50°C operating temperature				
(vii)	Working frequencies and MIMO				
	2.4 GHz (2x2 MIMO) 5 GHz (4x4 MIMO) 6 GHz (2x2 MIMO)				
(viii)	Wi-Fi Certified				
	IEEE 802.11a/b/g/n/ac/ax, Wi-Fi 6, WMM, WPA, WPA2 and				

		WPA3 – Enterprise, Personal (SAE), Enhanced Open (OWE)			
(ix)	AP Working Mode	The AP must be capable of switching the working mode without need of any additional licensing. Working mode FIT (Controller based), CloudAP (Cloud Controller AP)			
(x)	Maximum number of clients per radio	The quoted AP must be capable of handling atleast 128 clients per radio			
(xi)	Roaming	The AP must support 802.11k and 802.11v smart roam and 802.11r fast transition roaming to ensure the seamless enduser experience while they are roaming			
(xii)	Security Policy	The quoted AP must be able to detect and prevent Wireless Intrusion (WIDS/WIPS), IP Source guard, 802.11w & 802.11i support must also be included.			
(xiii)	QOS	Coupled with WLAN ACs, the APs must be able to identify variety of applications and policy control could be implemented including priority adjustment, scheduling, blocking, and rate limiting on users. AP must also provide Airtime optimization and Airtime fairness			
(xiv)	Load Balancing	Quoted AP must supports traffic and user based load balancing. When the load of the AP reaches the upper limit, the AC should reject the association requests of new clients and should direct the clients to another AP with smaller load			
(xv)	Power Saving	The Access Point must support power-saving features to optimize energy consumption and client efficiency.			
(xvi)	Warranty Services	3-Years NBD Standard Equipment warranty from OEM			
		Quoted AP must be PTA type approved			
		Software update patches required, whenever available during support period			

(xvii)	Training	Training and certification of Six resources by OEM			
(xviii)	Installation & cabling	Cabling, counduting, installation included			

Line Item N°	Description of Goods/Services	QTY	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
4	Core Switches				
(i)	Switch must have - 48 × 10G SFP+ ports - 2 x QSFP+ ports - 1 x 40G QSFP+ DAC Cable 1m for stacking of 2-Switches (Loaded with 6 x Multimode Short Range (300meters) 10G SFP+ Transceiver modules) & (42 Ports SFP+ RJ45) Note: SFPs may not be of the same OEM Brand that of quoted Switch but should be compatible with switch	2			
(ii)	Forwarding rate should be more than 480 Mpps				
(iii)	Should have 1.44 Tbps or more port switching capacity				
(iv)	Quoted switch must have redundant Power supplies				
(v)	Should be a Manageable Switch with Layer-3 features such as RIP, RIPng, OSPF & OSPFv3, BGP, Equal-cost multi-path routing (ECMP), IS-IS, PBR(Policy-based routing) and VRRP				
(vi)	Quoted switch must support L2, L3 VXLAN				
(vii)	Quoted switch must support MPLS, MCE and MPLS VPN				
(viii)	Switch RAM must be 4GB or higher				
(ix)	Switch Flash must be 2GB or higher				
(x)	Quoted switch must support IGMP Snooping v2/v3, fast-leave and group-policy. MVRP, PIM Snooping, PIM-SM,				

	PIM-DM and PIM-SSM must also be supported			
(xi)	Should support Spanning Tree Protocol, 802.1D STP, 802.1W RSTP & 802.1S MSTP			
(xii)	Should support Stacking of local and remote devices through standard Ethernet interfaces. Should support stacking of 9 switches or more.			
(xiii)	Should support Link Aggregation Protocol			
(xiv)	Should have 4K or more VLANs support and atleast 130K MAC address entries			
(xv)	Should be able to provide Access Port and Trunk Port			
(xvi)	Broadcast, Multicast and Unicast Storm Control Support.			
(xvii)	Should support local and remote Port Mirroring, Flow & Traffic mirroring or equivalent.			
(xviii)	Switch must have the capability to work as WLAN controller with the capability of managing upto 255 Access points			
(xix)	Should support Time & VLAN Based ACLs. In addition the switch must be capable of configuring the bidirectional ACLs.			
(xx)	Should support SNMP and SNMP v6.			
(xxi)	Should support IPv4 routing entries 65.5K or higher			
(xxii)	Should support security features like IP Source Guard, RADIUS, HWTACACS, 802.1x and MAC Based Authentication, NetConf, DHCP Snooping, etc.			
(xxiii)	Support Jumbo Frame			
(xxiv)	Operating temperature: 0°C to 45°C			
(xxv)	QoS Support 8 Queues Per Port, Traffic classification based on IEEE 802.1p CoS,CAR, DSCP, TCP/UDP Port Number			
(xxvi)	Should support IPv6 routing entries 32K or higher			
(xxvii)	Software update patches required, whenever available during support period			
(xxviii)	3- Years NBD Standard Equipment warranty from OEM			
(xxix)	Training and certification of Six resources by OEM			

Line Item N°	Description of Goods/Services	QTY	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
5	Firewall				
(i)	The NGN Firewall to be Supplied Shall Comply with the following:				
(ii)	• The proposed firewall must have at least 6 x 1G Base-X SFP, 4 x 1GE Combo ports, 16 x 10/100/1000BASE-T Ports and 2 x 10G SFP+ ports				
(iii)	• The firewall must support Interface expansion and at least 2 expansion slot must be supported				
(iv)	• The firewall throughput should be at least 6 Gbps or more				
(v)	• The firewall must include redundant power supply				
(vi)	• The Next Generation Firewall with IPS, DPI and AV module enabled throughput should be at least 3.4 Gbps or more				
(vii)	• The maximum number of concurrent sessions should be at least 2.5 Million or more	2			
(viii)	• The number of new connections per second should be at least 30K or more				
(ix)	• The firewall must support at least 4K or more SSL Concurrent VPN Users with license of 150 SSL VPN clients				
(x)	• Virtual firewall feature must also be supported				
(xi)	• The proposed solution must include 1 x 480GB SATA SSDs for storage				
(xii)	• Must support multiple authentication methods including Portal authentication, RADIUS, HWTACACS or equivalent, PKI/CA (X.509 format), Domain authentication, CHAP and PAP				

(xiii)	<ul style="list-style-type: none"> • Must support Protection against malicious attacks, such as land, smurf, fraggle, ping of death, teardrop, IP spoofing, IP fragmentation, ARP spoofing, reverse ARP lookup, invalid TCP flag, large ICMP packet, address/port scanning, SYN flood, ICMP flood, UDP flood, and DNS query flood 			
(xiv)	<ul style="list-style-type: none"> • User-based and application-based access control must be supported 			
(xv)	<ul style="list-style-type: none"> • Should support Signature-based virus detection and manual and automatic upgrade for the signature database must be supported 			
(xvi)	<ul style="list-style-type: none"> • Virus detection based on HTTP, FTP, SMTP, and POP3 must be supported 			
(xvii)	<ul style="list-style-type: none"> • Comprehensive virus detection must be supported including the following types: Backdoor, Email-Worm, IM-Worm, P2P-Worm, Trojan, AdWare, and Virus, Virus logs and reports 			
(xviii)	<ul style="list-style-type: none"> • Should support Prevention against common attacks such as hacker, malicious code, spyware/adware, DoS/DDoS, buffer overflow and IDS/IPS bypass 			
(xix)	<ul style="list-style-type: none"> • Should support Email filtering based on subject, content, attachment URL/content filtering 			
(xx)	<ul style="list-style-type: none"> • Should support uses link state inspection and link busy detection technologies which applies to a network egress to balance traffic among links. 			
(xxi)	<ul style="list-style-type: none"> • Must support multiple NAT technologies such as Many-to-one NAT, Many-to-many NAT, One-to-one NAT, Source and Destination NAT, NAT support for DNS, NAT ALG including DNS, FTP, H.323, ILS, MSN, NBT, PPTP, and SIP 			
(xxii)	<ul style="list-style-type: none"> • Should support L2TP VPN, IPSec VPN, GRE VPN, SSL VPN 			
(xxiii)	<ul style="list-style-type: none"> • Should have HA function, and provide permanent license and module 			
(xxiv)	<ul style="list-style-type: none"> • Should support Active/active and active/standby stateful failover, IKE state synchronization in IPsec VPN, VRRP 			

(xxv)	• Should support configuration management at the CLI, Remote management through Web, Device management through NMS, SNMP, Intelligent security policy				
(xxvi)	• Should include 3-Year UTM Bundle license including IPS, AV, URL and application signatures update service.				
(xxvii)	Principal must have registered legal entity in Pakistan.				
(xxviii)	3Y Principal 5×9 Next Business Day Support With Local Ware House preferably Islamabad, Lahore & Karachi and Also local OEM/Partner Support Team				
(xxix)	Valid Authorized letter from Manufacturer. Valid Authorized Distributor/Dealership certificate of Offered Brand.				
(xxx)	Training and certification of Six resources by OEM				

Line Item N°	Description of Goods/Services	QTY	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
6	NMS Software				
(i)	NMS Solution should consist of license for 50-Network devices and 10-Servers or higher	1			
(ii)	Support distributed virtualization deployment for resource topology, alarm, and performance modules, realize load balance and meet unified management of large-scale network environment				
(iii)	Support Windows, Linux OS and MS SQL, Oracle DB, B/S architecture				
(iv)	Support hot standby or cold backup software deployment				
(v)	Support administrator to set different management right and scope				
(vi)	Support automatic discovery topology, automatic discovery all network devices, custom modification, including device, link				

(vii)	Support device monitoring, unified browsing, intelligent alarm analysis and multiple reminder.			
(viii)	Support task-based performance monitoring, send different level alarm according to different thresholds.			
(ix)	Support resource, performance, alarm, topology and panel management in IPv6 environment, including pure IPv6 network and dual-stack IPv4 & IPv6 network.			
(x)	Support device configuration centralized management, batch device configuration backup and restore.			
(xi)	Support integrated wired and wireless management, uniformly manage AC, AP, wireless terminal, PoE switch, display device alarm and status on the topology			
(xii)	Support wireless device topology, check the actual physical link connection between AC and AP, and AP currently online and details			
(xiii)	Support wireless terminal, AP and traffic, radio status and utilization, Rogue AP status and other wireless transition statistics reports			
(xiv)	3- Years 7×24 Remote Technical Support from OEM			
(xv)	Training and certification of Six resources by OEM			

Mandatory Clauses
100% technical compliance is must
Equipment should be of same OEM (Switches, WLAN Controller, Access Points, Firewall, NMS and SFP)
Valid Certificate from Manufacturer (MAL/MAF) for the current year should be provided
OEM must be legally present in Pakistan for atleast 5 years
OEM must have Local Registered Office, Local Warehouse presence in Pakistan preferably Islamabad, Lahore & Karachi and Also local OEM/Partner Support Team
Software upgradation / patching support direct from Principal
OEM must be in Gartner LAN Wired and Wireless Magic Quadrant atleast once in last 5 years
The proposed access switches must be capable of supplying adequate Power over Ethernet (PoE) to the specified access points without the need for any external power injectors or auxiliary devices
Quoted AP must be PTA type approved
Should not be End of Life, End of Sale & End of Support atleast in next 5 Years
All cables/SFPs required for the Solution deployment/installation will be responsibility of the vendor.
WLAN For Access Point, Managed Upto 150 Access Point (Hardware Or VM Based)
Training and certification of six resources by OEM of all the items in this LOT

Price Schedule: Goods/Services (For Lot 2)
Currencies in accordance with ITB 15 (PKR)

Line Item N°	Description of Goods/Services		Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
1	Supply and installation of 65-inch Ultra HD (4K) Smart Android LED TV from a well-known brand.					
(i)	Display Size	65 inches (diagonal)	5			
(ii)	Panel Type	DLED / LED Panel				
(iii)	Resolution	Ultra HD (3840 x 2160)				
(iv)	Cooling Only	Required (No Heat Pump Function)				
(v)	HDR Support	HDR10 / HDR10+ or equivalent				
(vi)	Operating System	Android TV OS (Certified)				
(vii)	Connectivity	Wi-Fi 802.11ac, Bluetooth 5.0 or higher, Ethernet Port				
(viii)	HDMI Ports	2 HDMI				
(ix)	USB Ports	3.0 USB Port				
(x)	Audio Output	Stereo speakers with Dolby Audio or equivalent				
(xi)	Power Supply	100–240V AC, 50/60Hz				
(xii)	Warranty	3 Year				
(xiii)	Brand	TCL, Samsung, LG, Sony, Panasonic, Hisense or equivalent				
(xiv)	HDMI Cable	20-meter HDMI 4K Supported fibre Optic cable				
(xv)	Installation	Installation and commissioning at site, With Wall Mount Bracket, Associated Cabling, concealing of				

		cables, Switch Board included			
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Requirement

Bidder must have minimum 1 Purchase Order (PO) for LED TV

Line Item N°	Description of Goods/Services	Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
2	Supply, Installation, Testing & Commissioning of 10KVA Online UPS System with standard internal battery backup and built-in SNMP card from a well-known international brand.	1			
(i)	UPS Capacity		10KVA		
(ii)	UPS Type		True Online Double Conversion		
(iii)	Power Factor (Input/Output)		Minimum 0.9 or better		
(iv)	Input Frequency Range		45 – 65 Hz (Auto-sensing)		
(v)	Output Voltage		230V AC \pm 1% single phase		
(vi)	Battery Backup Time		Standard internal batteries providing 10–15 minutes at full load		
(vii)	Battery Type		Maintenance-free sealed lead acid (VRLA) batteries		
(viii)	Output Frequency		50 Hz \pm 0.5 Hz		
(ix)	Communication Interface		Built-in SNMP/Network Management Card for remote monitoring and management		
(x)	Certifications		RoHS compliant		
(xi)	Brand		UPS Must be from a well-known international brand		
(xii)	Warranty		Minimum 2 years warranty on UPS unit and 1 year on batteries		
(xiii)	MAF	Vendor must be authorized reseller/distributor/partner of the quoted brand			

(xiv)	Local Support	Local support and service availability must be ensured				
(xv)	Installation	Includes complete installation and all accessories (including rack mount kit) for input/output to PDU				
(xvi)	Form Factor	Rack-mountable UPS unit (including mounting rails and accessories)				
3	Supply, Installation, Testing & Commissioning of 4 Ton Cassette Type Air Conditioning Unit (Non-Inverter) suitable for commercial use, from a well-known international brand.					
(i)	Type	Cassette Type Split Air Conditioner (Ceiling Mounted)	1			
(ii)	Cooling Capacity	48,000 BTU/hr (Minimum 4 Ton)				
(iii)	Compressor Type	Fixed Speed (Non-Inverter) Rotary or Scroll				
(iv)	Cooling Only	Required (No Heat Pump Function)				
(v)	Refrigerant	Eco-friendly refrigerant (R-410A)				
(vi)	Airflow Direction Control	4-Way Auto Swing				
(vii)	Installation Accessories	Copper piping, insulation, drain pipe, power & communication cable, mounting kit, etc., included				
(viii)	Extra Equipment	Sequence Controller and Temperature Controller				
(ix)		Must be from a reputable and internationally recognized brand,				
(x)		Equipment must be new, genuine, and of current production				
(xi)		Minimum 1-year on-site warranty for complete unit (including compressor, fan, PCB, etc.)				
4	Supply and Installation of Rack PDU, Metered, 0U, 1 Phase, 7.4kW, 230V, 32A, 20 x C13 and 4 x C19		1			

Requirement

Bidder must have minimum 2 Technical Resource of HVAC on his Payroll

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

Price Schedule: Goods/Services (For Lot 3)					
Currencies in accordance with ITB 15 (PKR)					
Line Item N°	Description of Goods/Services	Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
1	Mbps P2P Link (Fiber)-2 Years Subscription + Installation Charges Site A: Shaheen Plaza Blue area Islamabad and Site B: Evacuee Trust Complex, Agha Khan Road, Islamabad. Bandwidth 10 Mbps	1			

Note: 1. Prices must be quoted on monthly/Annual basis; however, contract will be awarded on yearly basis extendable upto three agreement year, based upon satisfactory performance and may be terminated on three months notice.

Note: 2. For services / problems issues beyond Successful Bidder CPE (ONT+ Router), Customer will pay applicable value-added services charges (VAS) per visit of Successful Bidder Technical team. VAS rate will be per visit.

Note: 3. ONT & Installation Charges should be mentioned separately (if applicable)

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

Signature of Bidder *[signature of person signing the Bid]*

Date *[insert date]*

Price Schedule: Goods/Services (For Lot 4)					
Currencies in accordance with ITB 15 (PKR)					
Line Item N°	Description of Goods/Services	Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
1	Workstation (High-End) with UPS with 3 years Warranty & Support	1			

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

Signature of Bidder *[signature of person signing the Bid]*

Date *[insert date]*

Price Schedule: Goods/Services (For Lot 5)

Currencies in accordance with ITB 15 (PKR)

Line Item N°	Description of Goods/Services	Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
1	Network Printers with 3 years Warranty & Support	3			

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

Signature of Bidder *[signature of person signing the Bid]*

Date *[insert date]*

Price Schedule: Goods/Services (For Lot 6)

Currencies in accordance with ITB 15 (PKR)

HCI/ Virtualization & Servers Machine

S#	General Requirements (Non-Compliance shall lead to the rejection of Bids)
1	Must Be Compatible with Any Brand of Intel x86 Architecture Hardware Servers
2	Must Quote 5 Years 24/7 Technical Support S&S
3	Must Quote Onsite Installation and Configuration by OEM/Partner
4	Must Quote Training and Certification for 6 Participants by OEM
5	Must Have Minimum 5 Similar HCI Deployments in with the required components i.e. Compute Virtualization, Storage Virtualization and Network Virtualization (by the partner/OEM in Pakistan)
6	Supports standard iSCSI protocol, allowing external physical hosts or applications to access virtual storage through standard iSCSI interfaces. Supports iSCSI storage, FC storage, NFS storage, Object Storage and local storage.

Line Item N°	Description of Goods/Services	Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
ITEM NO. 01	VIRTUALIZATION MANAGEMENT LICENSE FOR HCI	01			

S#	Technical Description, Specifications and Standards Required
1.1	Proposed Solution must provide High Availability / Redundancy for Virtualization Management Platform on DR Site in case of any disaster.
1.2	Proposed Solution must Support Management for Existing Virtual Machines on VMware Platform for single window management.
1.3	Must be supported integration with VMware vCenter and Support migrating specified VMs from the VMware vCenter environment to the cloud platform transparently

1.4	Proposed Solution must support to create and manage local Users with Role Based Access and Permission Control.
1.5	Proposed Solution must provide Web Browser based Management Console.
1.6	Proposed Solution must provide complete visibility and centralized management / control of the Virtualization Platform.
1.7	Proposed Solution must provide capability to scale up to 64 nodes or better.
1.8	Provide standard OpenStack API to meet the needs of integration or secondary development
1.9	A single software license that includes major resources and features such as containers, virtual machines, and storage. Offer a unified management console for administration, eliminating the need to switch between multiple consoles.

Line Item N°	Description of Goods/Services	Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
ITEM NO. 02	HYPERVISOR (Compute Virtualization)	06			

S#	Technical Description, Specifications and Standards Required
2.1	Proposed Solution should be highly redundant providing capability for the VMs to restart on another node in case of any Node failure in the Cluster.
2.2	Proposed Solution must provide VM Snapshot capability to revert to previous point in time in case a failure or system error occurs.
2.3	Proposed Solution must provide VM Clone capability for creating cloned instances from source VM for testing or any other purposes.
2.4	Proposed Solution must provide VM vMotion capability to Live migrate VMs to any nodes in the Cluster without any downtime.
2.5	Proposed Solution must provide the capability to automatically hot-add resources including vCPUs and Memory real-time based on VM contention.
2.6	Proposed Solution must provide automated Resource Scheduling and Load Balancing capability for balanced performance on all nodes across the cluster.

2.7	Proposed Solution must provide Distributed Switch capability to configure and administer switching for the entire Cluster.
2.8	Proposed Solution must provide Hardware Health Check capability to Monitor/Alarm CPU, Memory, Network Interface Card, Hard Drive and RAID Controller etc.
2.9	The solution must support the seamless import and deployment of industry-standard virtualization templates.
2.10	Support and provide VM Console with any types of protocol like SPICE, VNC, and SPICE+VNC or Web Browser based
2.11	Proposed Solution must provide the capability to automatically hot-add resources including vCPUs and Memory real-time based on VM contention.

Line Item N°	Description of Goods/Services	Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
ITEM NO. 03	STORAGE VIRTUALIZATION	06			

S#	Technical Description, Specifications and Standards Required
3.1	Proposed Solution must be from the same Vendor as the Hypervisor.
3.2	Proposed Solution must provide at least “2 Copies” or more options for data redundancy to be selected from while initial configuration of Virtual Storage.
3.3	Distributed storage must support network sub-health. Support detects and report for packet losing or delayed network sub-health, network sub-health alarms and network port switching
3.4	Proposed Solution must provide Data-At-Rest Encryption (In-Built) for VM Data Security without using any specialized Hardware such as Self-Encrypting Drives (SEDs).
3.5	Proposed Solution must provide SSD based Read Caching and Write Buffer capability to improve the performance of the I/O.
3.6	Proposed Solution must provide Data Balancing capability to more evenly distribute the data across the devices to achieve a balanced distribution of resources.
3.7	Proposed Solution must provide Automated Data Rebuilding capability to restore redundancy in case of any Disk or Node Failure.

3.8	Proposed Solution must support Industry's common storage protocols such as iSCSI, FC or Network File Sharing (NFS).
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Line Item N°	Description of Goods/Services	Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
ITEM NO. 04	NETWORK VIRTUALIZATION	06			

S#	Technical Description, Specifications and Standards Required
4.1	Proposed Solution must be from the same Vendor as the Hypervisor.
4.2	Proposed Solution must provide capability to display Virtual Datacenter Network Topology for easy Management and Troubleshooting.
4.3	Proposed Solution must provide capability for L2 bridging with Physical Environment for Network connectivity of Internal workloads with Physical Network.
4.4	Proposed Solution must provide capability to manage Switching and Routing of Internal workloads by providing Virtual Switches and Virtual Routers. Routing of External Physical / Virtual Workloads should also be managed by Virtual Router.
4.5	Proposed Solution must provide Micro-Segmentation / Distributed Firewall feature for isolation of East-West Traffic between VMs.
4.6	Proposed Solution must provide complete Network Visualization of Virtual Network.
4.7	Proposed Solution must provide capability for Network Quality of Service (QOS).

Line Item N°	Description of Goods/Services	Qty	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC	Total Price in PKR

				office Islamabad]	
ITEM NO. 05	VM BACKUP SOLUTION	All VMs on Nodes			

S#	Technical Description, Specifications and Standards Required
5.1	Proposed Solution must be fully Compatible with Compute Hypervisor
5.2	Proposed Solution must provide the capability to take Full / Incremental level VM Backups.
5.3	Proposed Solution should be licensed in a manner to take backups of every VM in the Cluster regardless of which physical Node it resides on.
5.4	Proposed Solution must provide Automated Scheduling for Backups based on Hourly, Daily, weekly etc. scheduling.
5.5	Proposed Solution must support to configure Internal Virtual Storage, External SAN or NAS to be Backup repository for Storing Virtual Machine Backups.
5.6	Proposed Solution must support Industry's common storage protocols such as iSCSI, FC or Network File Sharing (NFS).
5.7	Proposed Backup solution must support workload backup on internal and external storage.

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

Line Item N°	Description of Goods/Services		QTY	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
6	Server Machine H3C/ DELL/ Lenovo or any International Renowned brand					
	Should be from a reputed vendor with global presence. Local presence of the brand with direct or affiliated support services would be an added advantage					
(i)	Form Factor	2U Rack mounted Server	3			
(ii)	Processor	2 x 5th Generation Silver with 16Cores/30MB/150W)CPU or higher				
(iii)	Memory	8 x 64GB Dual Rank DDR5 RDIMM/DIMM Memory Module				
(iv)	Storage/Internal Drives	Should have below drives: 2x 480GB SATA RI M.2 SSD 2 x 960GB 6G SATA 3.5in RI SSD 3 x 8TB 6G SATA 7.2K 3.5in EV 512e HDD				
(v)	PCIe & OCP Slots	Should support 8 PCIe Standard Slots - Minimum PCIe4.0 (Gen4) or Higher and 2 Onboard OCP 3.0 Slots;) for 1/10/25/40/100/200Gb Ethernet Adapter or 100/200Gb InfiniBand card Should Support Onboard OCP 3.0 x16 Slots for 4 x GE or 2 x 10GE or 2 x 25GE NICs				
(vi)	USB / VGA	2 VGA Rear Ports (1 Front, 1 Rear), 4 USB 3.0 Ports (2 Front, 2 Rear),1 Management Port				
(vii)	RAID Controller	Should have Hardware RAID SAS RAID				

		Controller(4GB Cache,8 SAS Ports,PCIe)			
		Support RAID 0, 1, 5,6 or more			
(viii)	Network Connectivity	The server must have: at least 4 x 1Gbps RJ-45 Ethernet ports 2 x Dual Port 10Gb/s PCIe3.0 X8 SFP+ Fiber Interface Ethernet Adapter including transievers			
(ix)	Power Supply	Should have Dual Power Supply (1+1, hot-swappable) with power cords			
(x)	Stability	Support long-term operating temperature under specific conditions 5-45 Degree Celcius			
(xi)	Chassis	Chassis installed with 1 x 8 (3.5inch SAS/SATA/NVMe drives) Supported drive backplane Chassis should support atleast 24 x 2.5" drives and 24 x U.2 NVMe			
		Rack Mountable tool less chassis with sliding rails & cable management arm			
(xii)	Security Features	Should Support: Intelligent Front Security Bezel, Chassis Intrusion Detection,TPM 2.0,2FA for Hardware device Management, Intel SGX2.0.			
(xiii)	Accessories	Side rails, Cable management arm & Intelligent Security Bezel			
(xiv)	Compatibility	Supports mainstream operating systems, such as Windows, Ubuntu, Oracle Linux, SELS, RHEL Linux and VMware Hypervisor			
(xv)	Warranty & Principal Presence	Principal must have registered legal entity in Pakistan.			
		3 Year Principal 5×9 Next Business Day Onsite			

		Support With Local Ware House preferably Islamabad, Lahore & Karachi and Also local OEM/Partner Support Team			
(xvi)	MAL	Valid Authorized letter from Manufacturer. Valid Authorized Distributor/Dealership certificate of Offered Brand.			
(xvii)	Training	Training and certification of Six resources by OEM			

Mandatory Clauses
100% technical compliance is must
Valid Certificate from Manufacturer (MAL/MAF) for the current year should be provided
OEM must be legally present in Pakistan for atleast 5 years
OEM must have Local Registered Office, Local Warehouse presence in Pakistan preferably Islamabad, Lahore & Karachi and Also local OEM/Partner Support Team
Software upgradation / patching support direct from Principal
Should not be End of Life, End of Sale & End of Support atleast in next 5 Years
All cables/SFPs required for the Solution deployment/installation will be responsibility of the vendor.
Training and certification of six resources by OEM of all the items in this LOT

Line Item N°	Description of Goods/Services	QTY	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
7	Window Server				
1	Microsoft Windows Server Standard Edition 2022 or latest	96 Core			

Line Item N0	Description of Goods/Services	QTY	Unit price DELIVERED DUTY PAID (DDP) [PPMC office Islamabad]	GST on Unit price delivered duty paid (DDP) [PPMC office Islamabad]	Total Price in PKR
8	KVM / KMM 17" LED display, Keyboard, 8-port USB switch with cables, can directly manage 5 servers & Core Devices. VGA interface, 1U rack mount with ethernet port with all cables	1			

Form of Bid Security

(Bank Guarantee)

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

[Guarantor letterhead or SWIFT identifier code]

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

IFB No.: *[Purchaser to insert reference number for the Invitation for Bids]*

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

Date: *[Insert date of issue]*

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

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

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

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

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

- (a) has withdrawn its Bid during the period of bid validity set forth in the Applicant's Letter of Bid ("the Bid Validity Period"), or any extension thereto provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the performance security, in accordance with the Instructions to Bidders ("ITB") of the Beneficiary's bidding document.

This guarantee will expire: (a) if the Applicant is the successful bidder, upon our receipt of copies of the contract agreement signed by the Applicant and the performance security issued to the Beneficiary

in relation to such contract agreement; or (b) if the Applicant is not the successful bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the bidding process; or (ii) twenty-eight days after the end of the Bid Validity Period.

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

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

[Signature(s)]

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

Form of Bid-Securing Declaration (N/A)

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

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

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

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

To: *[complete name of Purchaser]*

We, the undersigned, declare that:

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

We accept that we will automatically be suspended from being eligible for bidding in any contract with the Purchaser for the period of time of *[number of months or years]* starting on *[date]*, if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) have withdrawn our Bid during the period of bid validity specified in the Letter of Bid; or
- (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract; or (ii) fail or refuse to furnish the Performance Security, if required, in accordance with the ITB.

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

Name of the Bidder* _____

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

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ day of _____, _____

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

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

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

Manufacturer's Authorization

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

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

ICB No.: *[insert number of bidding process]*

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

To: *[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of Goods/Services manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods/Services, manufactured by us *[insert name and or brief description of the Goods/Services]*, 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/Services offered by the above firm.

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

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

Title: *[insert title]*

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

Section V. Eligible Countries

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

In reference to ITB 4.7 and 5.1, for the information of the Bidders, at the present time firms, Goods/Services and services from the following countries are excluded from this bidding process:

Under ITB 4.7(a) and 5.1: *India and Israel*

Under ITB 4.7(b) and 5.1: *None*

Section VI. Bank Policy - Corrupt and Fraudulent Practices

Guidelines for Procurement of Goods/Services, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011.

“Fraud and Corruption:

1.16 It is the Bank’s policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts.³ In pursuance of this policy, the Bank:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;⁴
 - (ii) “fraudulent practice” is 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;⁵
 - (iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;⁶
 - (iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;⁷

³ In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

⁴ For the purpose of this sub-paragraph, “*another party*” refers to a public official acting in relation to the procurement process or contract execution. In this context, “*public official*” includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

⁵ For the purpose of this sub-paragraph, “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

⁶ For the purpose of this sub-paragraph, “parties” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other’s bid prices or other conditions.

⁷ For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.

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- (v) "obstructive practice" is:
- (aa) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or
 - (bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 1.16(e) below.
- (b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
 - (c) will declare misprocurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
 - (d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank's sanctions procedures,⁸ including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated⁹;
 - (e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to

⁸ A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank's sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

⁹ A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.”

PART 2 – Supply Requirements

Section VII. Schedule of Requirements

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1. List of Goods/Services and Delivery Schedule

Line Item N°	Description of Goods/Services	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date
					Delivery Date
LOT 1	IT Infrastructure & Computing	As per schedule of Requirements	As per schedule of Requirements	Office of The Managing Director (MD) Power Planning & Monitoring Company, Office # 112, Evacuee Trust Complex, Agha Khan Road,F-5/1 Islamabad	(120) Days After Signing of Contract
LOT 2	Data Center Facility Improvement and Smart Screens	As per schedule of Requirements	As per schedule of Requirements		(120) Days After Signing of Contract
LOT 3	Point to Point (P2P) Connectivity	As per schedule of Requirements	As per schedule of Requirements		(120) Days After Signing of Contract
LOT 4	Workstation (High-End) with UPS	As per schedule of Requirements	As per schedule of Requirements		(120) Days After Signing of Contract
LOT 5	Network Printers	As per schedule of Requirements	As per schedule of Requirements		(120) Days After Signing of Contract
LOT 6	HCI/ Virtualization & Servers Machine	As per schedule of Requirements	As per schedule of Requirements		(120) Days After Signing of Contract

3. Schedule of Requirement

Technical Specifications

Technical Specifications - Lot 1 – IT Infrastructure & Computing

Line Item N°	Description of Goods/Services	QTY
1	Access Switches	
(i)	Should have 48 x 1G Ethernet Ports PoE+/POE++ with total PoE budget of minimum 490W. The proposed access switches must be capable of supplying adequate Power over Ethernet (PoE) to the proposed WIFI access points, without the need for any external power injectors or auxiliary devices. Switch console cable must be included.	4
(ii)	Should have Uplink 4 x 10G SFP+ Ports (Loaded with 2 x Multimode Short Range (300meters) 10G SFP+ Transceiver modules) Note: SFPs must be of the same OEM Brand that of quoted Switch	
(iii)	Should have 220 Gbps or more port switching capacity	
(iv)	Forwarding rate should be more than 130 Mpps	
(v)	Should be a Manageable Switch with Layer-3 features such as RIP, RIPng, OSPF & OSPFv3	
(vi)	Should support Spanning Tree Protocol, 802.1D STP, 802.1W RSTP & 802.1S MSTP	
(vii)	Should support Stacking of local and remote devices through standard Ethernet interfaces. Should support stacking of 7 switches or more.	
(viii)	Should Support Link Aggregation Protocol	
(ix)	Should have 4K or more VLANs support and 16K MAC address entries	
(x)	Should be able to provide Access Port and Trunk Port	
(xi)	Broadcast, Multicast and Unicast Storm Control Support.	
(xii)	Port Mirroring, RSPAN or equivalent must be supported	
(xiii)	Should support IPv4 routing entries 1024 or higher	
(xiv)	Should Support Time & Vlan Based ACLs. In addition the switch must be capable of configuring the bidirectional ACLs.	
(xv)	Should support SNMP v1, 2 & 3.	
(xvi)	Switch Flash must be 1GB or higher	
(xvii)	Switch RAM must be 2GB or higher	
(xviii)	Should support security features like IP Source Guard, AAA, RADIUS, 802.1x and Centralized MAC Based Authentication, DHCP Snooping etc.	

(xix)	Support 10200bytes or larger Jumbo Frame
(xx)	QoS Support 8 Queues Per Port, Traffic classification based on IEEE 802.1p DSCP, CAR.
(xxi)	Must have built-in surge protection on service ports, suitable for enterprise/datacenter environments. Minimum protection level should be 6kV or equivalent, compliant with IEC 61000-4-5 or similar standards.
(xxii)	Software update patches required, whenever available during support period
(xxiii)	Operating temperature: -5°C to 45°C
(xxiv)	3-Years NBD Standard Equipment warranty from OEM
(xxv)	Training and certification of Six resources by OEM

Line Item N°	Description of Goods/Services		QTY
2	Wifi Controller		
(i)	Throughput	The quoted wireless controller must have 9.8Gbps or higher throughput	1
(ii)	Interfaces	Wireless controller must have 2 × 2.5GE ports, 8 × GE Copper ports and 2 x 10G SFP+ ports Controller console cable must be included 1 x management interface along with USB port	
(iii)	Maximum number of Clients	Users to be supported by the wireless controller must be 4094 at least or more	
(iv)	Licenses	The quoted Controller must have licenses for 10 APs at least or more The quoted controller must have a capacity to manage atleast 142 APs	
(v)	Wireless user isolation	Supports wireless users 2-Layer isolation based on VLANs and SSIDs	
(vi)	CAPWAP	The quoted controller must assign basic AP network parameter through WLAN controller via Static IP, VLAN & connected AC address Controller must be able to establish L2/L3 connection between AP and WLAN controller Controller must be able to discover the APs automatically and make it visible over the controller for the control Controller must support WLAN controller discovery using DHCP option 43 and must provide NAT traversal between AP and Controller	

(vii)	Roaming	The controller must be efficient enough to handle the roaming clients and handoff the clients to the other AP seamlessly and ensure the end user experience is uninterrupted upon both layer 2 and layer3 (Inter and Intra AP)
(viii)	Gateway	Controller must provide the gateway features in order to allow the internal users to communicate with the outer world. The controller must support PPPoE, NAT, SSL VPN, IPSEC VPN & GRE
(ix)	Access Control	The controller must provide multiple users/AP on boarding mechanisms mainly, WEP-64/128, dynamic WEP, WPA, WPA2, WPA3, 802.1x, LDAP and Portal authentication.
(x)	QoS	The controller must be able to perform L2-L4 packet filtering, traffic classification and mark the priorities over them. The controller must also provide Intelligent bandwidth limit (equal bandwidth share algorithm)/ (user specific) in order to ensure the end-user experience.
(xi)	RF Management	Load balancing must be supported based on traffic, user & frequency. Intelligent and AP group Load balancing support must be provided as well.
		The Controller must be able to provide Static and Auto channel and power configuration. In addition, controller must be able to adjust the transmission rate automatically.
(xii)	Security	The Controller must be efficient enough to detect and provide countermeasure for Rogue AP/s
		Controller must defend the network against multiple types of attacks mainly Flooding, Spoof & Weak IV attacks.
		The controller must provide Layer 7 Wireless Intrusion Prevention Systems (WIPS)
(xiii)	Redundancy	Must support 1+1 Failover OR Stateful redundancy in Active/Standby or Equivalent.
		Intelligently APs must be shared among WLAN controllers in order to provide optimized AP and it's related traffic handling.
(xiv)	Power Saving	The controller must support Scheduled shutdown of AP RF interface & wireless service and must be able to provide Per-packet power adjustment for minimizing the power usage
(xv)	Warranty Hardware/Software	3-Years NBD Standard Equipment warranty from OEM
(xvi)	Training	Training and certification of Six resources by OEM

Line Item N°	Description of Goods/Services		QTY
3	Wifi Access Point		
(i)	Maximum transmission speed	The AP should support IEEE 802.11be and compatability with IEEE 802.11a/b/g/n/ac/ax.The AP should support system minimum rate up to 6.4 Gbps	10
(ii)	Interfaces	The quoted AP must provide atleast 1 port for 100/1000M Multigigabit Ethernet, RJ-45 and 1 port for 1G/2.5G Multigigabit optical port The quoted AP must have a Console Port and USB port as well	
(iii)	POE	The quoted AP must be 802.11 at/af compliant.	
(iv)	Built-in Antenna	2.4 GHz (2x2 MIMO) 5 GHz (4x4 MIMO) 6 GHz (2x2 MIMO)	
(v)	IOT		
(vi)	Operating Temperature	Must support -5°C to +50°C operating temperature	
(vii)	Working frequencies and MIMO	2.4 GHz (2x2 MIMO) 5 GHz (4x4 MIMO) 6 GHz (2x2 MIMO)	
(viii)	Wi-Fi Certified	IEEE 802.11a/b/g/n/ac/ax, Wi-Fi 6, WMM, WPA, WPA2 and WPA3 – Enterprise, Personal (SAE), Enhanced Open (OWE)	
(ix)	AP Working Mode	The AP must be capable of switching the working mode without need of any additional licensing. Working mode FIT (Controller based), CloudAP (Cloud Controller AP)	
(x)	Maximum number of clients per radio	The quoted AP must be capable of handling atleast 128 clients per radio	
(xi)	Roaming	The AP must support 802.11k and 802.11v smart roam and 802.11r fast transition roaming to ensure the semeless enduser experience while they are roaming	
(xii)	Security Policy	The quoted AP must be able to detect and prevent Wireless Intrusion (WIDS/WIPS), IP Source guard, 802.11w & 802.11i support must also be included.	
(xiii)	QOS	Coupled with WLAN ACs, the APs must be able to identify variety of applications and policy control could be implemented including priority adjustment, scheduling, blocking, and rate limiting on users. AP must also provide Airtime optimization and Airtime fairness	
(xiv)	Load Balancing	Quoted AP must supports traffic and user based load balancing. When the load of the AP reaches the upper limit, the AC should reject the	

		association requests of new clients and should direct the clients to another AP with smaller load
(xv)	Power Saving	The Access Point must support power-saving features to optimize energy consumption and client efficiency.
(xvi)	Warranty Services	3-Years NBD Standard Equipment warranty from OEM
		Quoted AP must be PTA type approved
		Software update patches required, whenever available during support period
(xvii)	Training	Training and certification of Six resources by OEM
(xviii)	Installation & cabling	Cabling, counduting, installation included

Line Item N°	Description of Goods/Services	QTY
4	Core Switches	
(i)	Switch must have - 48 × 10G SFP+ ports - 2 x QSFP+ ports - 1 x 40G QSFP+ DAC Cable 1m for stacking of 2-Switches (Loaded with 6 x Multimode Short Range (300meters) 10G SFP+ Transceiver modules) & (42 Ports SFP+ RJ45) Note: SFPs may not be of the same OEM Brand that of quoted Switch but should be compatible with switch	2
(ii)	Forwarding rate should be more than 480 Mpps	
(iii)	Should have 1.44 Tbps or more port switching capacity	
(iv)	Quoted switch must have redundant Power supplies	
(v)	Should be a Manageable Switch with Layer-3 features such as RIP, RIPng, OSPF & OSPFv3, BGP, Equal-cost multi-path routing (ECMP), IS-IS, PBR(Policy-based routing) and VRRP	
(vi)	Quoted switch must support L2, L3 VXLAN	
(vii)	Quoted switch must support MPLS, MCE and MPLS VPN	
(viii)	Switch RAM must be 4GB or higher	
(ix)	Switch Flash must be 2GB or higher	
(x)	Quoted switch must support IGMP Snooping v2/v3, fast-leave and group-policy. MVRP, PIM Snooping, PIM-SM, PIM-DM and PIM-SSM must also be supported	
(xi)	Should support Spanning Tree Protocol, 802.1D STP, 802.1W RSTP & 802.1S MSTP	

(xii)	Should support Stacking of local and remote devices through standard Ethernet interfaces. Should support stacking of 9 switches or more.
(xiii)	Should support Link Aggregation Protocol
(xiv)	Should have 4K or more VLANs support and atleast 130K MAC address entries
(xv)	Should be able to provide Access Port and Trunk Port
(xvi)	Broadcast, Multicast and Unicast Storm Control Support.
(xvii)	Should support local and remote Port Mirroring, Flow & Traffic mirroring or equivalent.
(xviii)	Switch must have the capability to work as WLAN controller with the capability of managing upto 255 Access points
(xix)	Should support Time & VLAN Based ACLs. In addition the switch must be capable of configuring the bidirectional ACLs.
(xx)	Should support SNMP and SNMP v6.
(xxi)	Should support IPv4 routing entries 65.5K or higher
(xxii)	Should support security features like IP Source Guard, RADIUS, HWTACACS, 802.1x and MAC Based Authentication, NetConf, DHCP Snooping, etc.
(xxiii)	Support Jumbo Frame
(xxiv)	Operating temperature: 0°C to 45°C
(xxv)	QoS Support 8 Queues Per Port, Traffic classification based on IEEE 802.1p CoS,CAR, DSCP, TCP/UDP Port Number
(xxvi)	Should support IPv6 routing entries 32K or higher
(xxvii)	Software update patches required, whenever available during support period
(xxviii)	3- Years NBD Standard Equipment warranty from OEM
(xxix)	Training and certification of Six resources by OEM

Line Item N°	Description of Goods/Services	QTY
5	Firewall	
(i)	The NGN Firewall to be Supplied Shall Comply with the following:	
(ii)	• The proposed firewall must have at least 4 x 10G Base-X SFP, 2 x 1G 4 x 1GE Combo ports, 16 x 10/100/1000BASE-T Ports and 2 x 10G SFP+ ports	
(iii)	• The firewall must support Interface expansion and at least 2 expansion slot must be supported	
(iv)	• The firewall throughput should be at least 6 Gbps or more	
(v)	• The firewall must include redundant power supply	
(vi)	• The Next Generation Firewall with IPS, DPI and AV module enabled throughput should be at least 3.4 Gbps or more	
(vii)	• The maximum number of concurrent sessions should be at least 2.5 Million or more	
(viii)	• The number of new connections per second should be at least 30K or more	
(ix)	• The firewall must support at least 4K or more SSL Concurrent VPN Users with license of 150 SSL VPN clients	
		2

(x)	• Virtual firewall feature must also be supported
(xi)	• The proposed solution must include 1 x 480GB SATA SSDs for storage
(xii)	• Must support multiple authentication methods including Portal authentication, RADIUS, HWTACACS or equivalent, PKI/CA (X.509 format), Domain authentication, CHAP and PAP
(xiii)	• Must support Protection against malicious attacks, such as land, smurf, fraggle, ping of death, teardrop, IP spoofing, IP fragmentation, ARP spoofing, reverse ARP lookup, invalid TCP flag, large ICMP packet, address/port scanning, SYN flood, ICMP flood, UDP flood, and DNS query flood
(xiv)	• User-based and application-based access control must be supported
(xv)	• Should support Signature-based virus detection and manual and automatic upgrade for the signature database must be supported
(xvi)	• Virus detection based on HTTP, FTP, SMTP, and POP3 must be supported
(xvii)	• Comprehensive virus detection must be supported including the following types: Backdoor, Email-Worm, IM-Worm, P2P-Worm, Trojan, AdWare, and Virus, Virus logs and reports
(xviii)	• Should support Prevention against common attacks such as hacker, malicious code, spyware/adware, DoS/DDoS, buffer overflow and IDS/IPS bypass
(xix)	• Should support Email filtering based on subject, content, attachment URL/content filtering
(xx)	• Should support uses link state inspection and link busy detection technologies which applies to a network egress to balance traffic among links.
(xxi)	• Must support multiple NAT technologies such as Many-to-one NAT, Many-to-many NAT, One-to-one NAT, Source and Destination NAT, NAT support for DNS, NAT ALG including DNS, FTP, H.323, ILS, MSN, NBT, PPTP, and SIP
(xxii)	• Should support L2TP VPN, IPsec VPN, GRE VPN, SSL VPN
(xxiii)	• Should have HA function, and provide permanent license and module
(xxiv)	• Should support Active/active and active/standby stateful failover, IKE state synchronization in IPsec VPN, VRRP
(xxv)	• Should support configuration management at the CLI, Remote management through Web, Device management through NMS, SNMP, Intelligent security policy
(xxvi)	• Should include 3-Year UTM Bundle license including IPS, AV, URL and application signatures update service.
(xxvii)	Principal must have registered legal entity in Pakistan.
(xxviii)	3Y Principal 5×9 Next Business Day Support With Local Ware House preferably Islamabad, Lahore & Karachi and Also local OEM/Partner Support Team
(xxix)	Valid Authorized letter from Manufacturer. Valid Authorized Distributor/Dealership certificate of Offered Brand.
(xxx)	Training and certification of Six resources by OEM

Line Item N°	Description of Goods/Services	QTY
6	NMS Software	
(i)	NMS Solution should consist of license for 50-Network devices and 10-Servers or higher	1
(ii)	Support distributed virtualization deployment for resource topology, alarm, and performance modules, realize load balance and meet unified management of large-scale network environment	
(iii)	Support Windows, Linux OS and MS SQL, Oracle DB, B/S architecture	
(iv)	Support hot standby or cold backup software deployment	
(v)	Support administrator to set different management right and scope	
(vi)	Support automatic discovery topology, automatic discovery all network devices, custom modification, including device, link	
(vii)	Support device monitoring, unified browsing, intelligent alarm analysis and multiple reminder.	
(viii)	Support task-based performance monitoring, send different level alarm according to different thresholds.	
(ix)	Support resource, performance, alarm, topology and panel management in IPv6 environment, including pure IPv6 network and dual-stack IPv4 & IPv6 network.	
(x)	Support device configuration centralized management, batch device configuration backup and restore.	
(xi)	Support integrated wired and wireless management, uniformly manage AC, AP, wireless terminal, PoE switch, display device alarm and status on the topology	
(xii)	Support wireless device topology, check the actual physical link connection between AC and AP, and AP currently online and details	
(xiii)	Support wireless terminal, AP and traffic, radio status and utilization, Rogue AP status and other wireless transition statistics reports	
(xiv)	3- Years 7×24 Remote Technical Support from OEM	
(xv)	Training and certification of Six resources by OEM	

Mandatory Clauses
100% technical compliance is must
Equipment should be of same OEM (Switches, WLAN Controller, Access Points, Firewall, NMS and SFP)
Valid Certificate from Manufacturer (MAL/MAF) for the current year should be provided
OEM must be legally present in Pakistan for atleast 5 years
OEM must have Local Registered Office, Local Warehouse presence in Pakistan preferably Islamabad, Lahore & Karachi and Also local OEM/Partner Support Team
Software upgradation / patching support direct from Principal
OEM must be in Gartner LAN Wired and Wireless Magic Quadrant atleast once in last 5 years
The proposed access switches must be capable of supplying adequate Power over Ethernet (PoE) to the specified access points without the need for any external power injectors or auxiliary devices
Quoted AP must be PTA type approved
Should not be End of Life, End of Sale & End of Support atleast in next 5 Years
All cables/SFPs required for the Solution deployment/installation will be responsibility of the vendor.
WLAN For Access Point, Managed Upto 150 Access Point (Hardware Or VM Based)
Training and certification of six resources by OEM of all the items in this LOT

Technical Specifications - Lot 2 - Data Center Facility Improvement and Smart Screens

Line Item N°	Description of Goods/Services		Qty
1	Supply and installation of 65-inch Ultra HD (4K) Smart Android LED TV from a well-known brand.		
(i)	Display Size	65 inches (diagonal)	5
(ii)	Panel Type	DLED / LED Panel	
(iii)	Resolution	Ultra HD (3840 x 2160)	
(iv)	Cooling Only	Required (No Heat Pump Function)	
(v)	HDR Support	HDR10 / HDR10+ or equivalent	
(vi)	Operating System	Android TV OS (Certified)	
(vii)	Connectivity	Wi-Fi 802.11ac, Bluetooth 5.0 or higher, Ethernet Port	
(viii)	HDMI Ports	2 HDMI	
(ix)	USB Ports	3.0 USB Port	
(x)	Audio Output	Stereo speakers with Dolby Audio or equivalent	
(xi)	Power Supply	100–240V AC, 50/60Hz	
(xii)	Warranty	3 Year	
(xiii)	Brand	TCL, Samsung, LG, Sony, Panasonic, Hisense or equivalent	
(xiv)	HDMI Cable	20-meter HDMI 4K Supported fibre Optic cable	
(xv)	Installation	Installation and commissioning at site, With Wall Mount Bracket, Associated Cabling, concealing of cables, Switch Board included	

Requirement

Bidder must have minimum 1 Purchase Order (PO) for LED TV

Line Item N°	Description of Goods/Services		Qty	
2	Supply, Installation, Testing & Commissioning of 10KVA Online UPS System with standard internal battery backup and built-in SNMP card from a well-known international brand.			
(i)	UPS Capacity	10KVA	1	
(ii)	UPS Type	True Online Double Conversion		
(iii)	Power Factor (Input/Output)	Minimum 0.9 or better		
(iv)	Input Frequency Range	45 – 65 Hz (Auto-sensing)		
(v)	Output Voltage	230V AC ±1% single phase		
(vi)	Battery Backup Time	Standard internal batteries providing 10–15 minutes at full load		
(vii)	Battery Type	Maintenance-free sealed lead acid (VRLA) batteries		
(viii)	Output Frequency	50 Hz ±0.5 Hz		
(ix)	Communication Interface	Built-in SNMP/Network Management Card for remote monitoring and management		
(x)	Certifications	RoHS compliant		
(xi)	Brand	UPS Must be from a well-known international brand		
(xii)	Warranty	Minimum 2 years warranty on UPS unit and 1 year on batteries		
(xiii)	MAF	Vendor must be authorized reseller/distributor/partner of the quoted brand		
(xiv)	Local Support	Local support and service availability must be ensured		
(xv)	Installation	Includes complete installation and all accessories (including rack mount kit) for input/output to PDU		
(xvi)	Form Factor	Rack-mountable UPS unit (including mounting rails and accessories)		
3	Supply, Installation, Testing & Commissioning of 4 Ton Cassette Type Air Conditioning Unit (Non-Inverter) suitable for commercial use, from a well-known international brand.			
(i)	Type	Cassette Type Split Air Conditioner (Ceiling Mounted)	1	
(ii)	Cooling Capacity	48,000 BTU/hr (Minimum 4 Ton)		
(iii)	Compressor Type	Fixed Speed (Non-Inverter) Rotary or Scroll		
(iv)	Cooling Only	Required (No Heat Pump Function)		
(v)	Refrigerant	Eco-friendly refrigerant (R-410A)		
(vi)	Airflow Direction Control	4-Way Auto Swing		

(vii)	Installation Accessories	Copper piping, insulation, drain pipe, power & communication cable, mounting kit, etc., included	
(viii)	Extra Equipment	Sequence Controller and Temperature Controller	
(ix)		Must be from a reputable and internationally recognized brand,	
(x)		Equipment must be new, genuine, and of current production	
		Minimum 1-year on-site warranty for complete unit (including compressor, fan, PCB, etc.)	
4	Supply and Installation of Rack PDU, Metered, 0U, 1 Phase, 7.4kW, 230V, 32A, 20 x C13 and 4 x C19		1

Technical Specifications – Lot 3– Point to Point (P2P) Connectivity

S/No.	Item	Description	Bandwidth
1	Mbps P2P Link (Fiber)-2 Years Subscription + Installation Charges	Site A: Shaheen Plaza Blue area Islamabad and Site B: Evacuee Trust Complex, Agha Khan Road, Islamabad.	10 Mbps

- Note: 1. For services / problems issues beyond Successful Bidder CPE (ONT+ Router), Customer will pay applicable value-added services charges (VAS) per visit of Successful Bidder Technical team. VAS rate will be per visit.
- Note: 2. ONT & Installation Charges should be mentioned separately (if applicable)

Technical Specifications – Lot 4 – Workstation (High-End)

Workstation (Graphics Series) with UPS 1KVA			
Brands	Workstation: (High-end Graphics Series) Lenovo, HP or Equivalent Internationally top recognized brands		
S. No.	ITEM	DESCRIPTION	Est. QTY
(i)	Processor	Intel Core i9 13900-K (base clock 3.8 Ghz turbo boost 5.7 Ghz) 16 Core, or Higher	1
(ii)	Chipset	Intel Platform	
(iii)	Screen	At least 32" diagonal FHD anti-glare or higher (non-curved)	
(iv)	RAM	128 GB DDR5 4800 SODIMM Memory or higher upgradeable	
(v)	Hard Disk	Min. 1 TB SSD M.2 2242 PCIe® 4.0x4 NVMe® Opal 2.0 or Higher	
(vi)	Graphics	NVIDIA T1000 8 GB 4mDP Graphics	
(vii)	Keyboard	USB Wired Keyboard	
(viii)	Mouse	USB Wired Mouse	
(ix)	Communication	Gigabit Ethernet Port, Wi-Fi® 6, 11ax 2x2 + BT5.1 or above	
(x)	External Ports	1x Ethernet (RJ-45), 1x HDMI® 2.1, 1x Headphone / microphone combo jack (3.5mm), 1x Thunderbolt™ 4 / USB4® 40Gbps, 1x USB 2.0, 1x USB 3.2 Gen 1, 1x USB-C® 3.2 Gen 2	
(xi)	OS Version	Windows 11 Pro High-End 64bit Preinstalled	
(xii)	UPS	UPS shall be tower type, online double conversion, with minimum 0.8 kW/1.0 kVA capacity, 230 V nominal input, 208–240 V output, pure sinewave, and standard backup time, meeting CE & IEC 62040-1 standards. Must include LCD panel, USB & serial ports, operate 0–95% RH @ 0–50°C, noise <50 dBA, with ≥2-year warranty; certificates & 3rd-party test reports required with allied cabling to connect	
NOTE: 03 (three) Years Parts/Labor OEM On-Site warranty for all components (3/3/0) with supplier on-site support.			

Technical Specifications – Lot 5 – Network Printers

HEAVY DUTY - DUPLEX MULTIFUNCTION LASER PRINTER/COPIER/SCANNER/FAX			
Brands	Canon, Konica Minolta, HP or Equivalent Internationally top recognized brands		
S. No.	ITEM	DESCRIPTION	Est. QTY
(i)	Functions	Print, Copy, Scan, Send and optional Fax	3
(ii)	Print Speed	55 ppm (A4) or higher	
(iii)	Technology	Laser Technology	
(iv)	Print Color	Black mono	
(v)	Quality (resolution)	Print: 600 x 600dpi, Copy: 600 x 600dpi or higher	
(vi)	Paper size	At least A4, Letter, Legal	
(vii)	Duplex Printing/Scanning	Automatic Duplex Printing/Scanning (Standard)	
(viii)	Interface Connection	USB 3.0, NETWORK Standard: 1000 Base-T/100Base-TX/10Base-T	
(ix)	Monthly Duty Cycle	A4, 250,000 pages or higher	
(x)	Processor speed	Min. 1.5 GHz Dual Core	
(xi)	Memory	Min 3.5 GB RAM	
(xii)	Hard Disk	Storage: Min. 256 GB SSD	
(xiii)	Display	Min 10" LCD full functional touch screen display	
(xiv)	Paper handling Input	1x Multipurpose Tray 3 x (at least 500-sheets) trays with Floor Stand Trolley	
(xv)	Paper handling output	At least 250 -sheet output bin	
(xvi)	Multiple Copies	Up to 9,999 copies	
(xvii)	Page Description Languages	UFR II, PCL6, Adobe® PostScript®3™	
(xviii)	OS Support	Android/Windows® 10/Chrome OS/macOS (11.2.2)/iOS/iPadOS	
(xix)	Estimated Toner Life	23,000 or above pages	
(xx)	OCR Searchable PDF	Yes	
(xxi)	Scan to Network, USB, Email	Yes	
NOTE: 03 (Three) Year with Parts/Labor OEM warranty for all components on site			

Technical Specifications – Lot 6 – HCI/ Virtualization & Servers Machine

S#	General Requirements (Non-Compliance shall lead to the rejection of Bids)
(i)	Must Be Compatible with Any Brand of Intel x86 Architecture Hardware Servers
(ii)	Must Quote 5 Years 24/7 Technical Support S&S
(iii)	Must Quote Onsite Installation and Configuration by OEM/Partner
(iv)	Must Quote Training and Certification for 6 Participants by OEM
(v)	Must Have Minimum 5 Similar HCI Deployments in with the required components i.e. Compute Virtualization, Storage Virtualization and Network Virtualization (by the partner/OEM in Pakistan)
(vi)	Supports standard iSCSI protocol, allowing external physical hosts or applications to access virtual storage through standard iSCSI interfaces. Supports iSCSI storage, FC storage, NFS storage, Object Storage and local storage.

Line Item N°	Description of Goods/Services	Qty
ITEM NO. 01	VIRTUALIZATION MANAGEMENT LICENSE FOR HCI	01

S#	Technical Description, Specifications and Standards Required
(i)	Proposed Solution must provide High Availability / Redundancy for Virtualization Management Platform on DR Site in case of any disaster.
(ii)	Proposed Solution must Support Management for Existing Virtual Machines on VMware Platform for single window management.
(iii)	Must be supported integration with VMware vCenter and Support migrating specified VMs from the VMware vCenter environment to the cloud platform transparently
(iv)	Proposed Solution must support to create and manage local Users with Role Based Access and Permission Control.
(v)	Proposed Solution must provide Web Browser based Management Console.
(vi)	Proposed Solution must provide complete visibility and centralized management / control of the Virtualization Platform.
(vii)	Proposed Solution must provide capability to scale up to 64 nodes or better.
(viii)	Provide standard OpenStack API to meet the needs of integration or secondary development
(ix)	A single software license that includes major resources and features such as containers, virtual machines, and storage. Offer a unified management console for administration, eliminating the need to switch between multiple consoles.

Line Item N°	Description of Goods/Services	Qty
ITEM NO. 02	HYPERVISOR (Compute Virtualization)	06

S#	Technical Description, Specifications and Standards Required
(i)	Proposed Solution should be highly redundant providing capability for the VMs to restart on another node in case of any Node failure in the Cluster.
(ii)	Proposed Solution must provide VM Snapshot capability to revert to previous point in time in case a failure or system error occurs.
(iii)	Proposed Solution must provide VM Clone capability for creating cloned instances from source VM for testing or any other purposes.
(iv)	Proposed Solution must provide VM vMotion capability to Live migrate VMs to any nodes in the Cluster without any downtime.
(v)	Proposed Solution must provide the capability to automatically hot-add resources including vCPUs and Memory real-time based on VM contention.
(vi)	Proposed Solution must provide automated Resource Scheduling and Load Balancing capability for balanced performance on all nodes across the cluster.
(vii)	Proposed Solution must provide Distributed Switch capability to configure and administer switching for the entire Cluster.
(viii)	Proposed Solution must provide Hardware Health Check capability to Monitor/Alarm CPU, Memory, Network Interface Card, Hard Drive and RAID Controller etc.
(ix)	The solution must support the seamless import and deployment of industry-standard virtualization templates.
(x)	Support and provide VM Console with any types of protocol like SPICE, VNC, and SPICE+VNC or Web Browser based
(xi)	Proposed Solution must provide the capability to automatically hot-add resources including vCPUs and Memory real-time based on VM contention.

Line Item N°	Description of Goods/Services	Qty
ITEM NO. 03	STORAGE VIRTUALIZATION	06

S#	Technical Description, Specifications and Standards Required
(i)	Proposed Solution must be from the same Vendor as the Hypervisor.
(ii)	Proposed Solution must provide at least “2 Copies” or more options for data redundancy to be selected from while initial configuration of Virtual Storage.
(iii)	Distributed storage must support network sub-health. Support detects and report for packet losing or delayed network sub-health, network sub-health alarms and network port switching
(iv)	Proposed Solution must provide Data-At-Rest Encryption (In-Built) for VM Data Security without using any specialized Hardware such as Self-Encrypting Drives (SEDs).

(v)	Proposed Solution must provide SSD based Read Caching and Write Buffer capability to improve the performance of the I/O.
(vi)	Proposed Solution must provide Data Balancing capability to more evenly distribute the data across the devices to achieve a balanced distribution of resources.
(vii)	Proposed Solution must provide Automated Data Rebuilding capability to restore redundancy in case of any Disk or Node Failure.
(viii)	Proposed Solution must support Industry's common storage protocols such as iSCSI, FC or Network File Sharing (NFS).

Line Item N°	Description of Goods/Services	Qty
ITEM NO. 04	NETWORK VIRTUALIZATION	06
(i)	Proposed Solution must be from the same Vendor as the Hypervisor.	
(ii)	Proposed Solution must provide capability to display Virtual Datacenter Network Topology for easy Management and Troubleshooting.	
(iii)	Proposed Solution must provide capability for L2 bridging with Physical Environment for Network connectivity of Internal workloads with Physical Network.	
(iv)	Proposed Solution must provide capability to manage Switching and Routing of Internal workloads by providing Virtual Switches and Virtual Routers. Routing of External Physical / Virtual Workloads should also be managed by Virtual Router.	
(v)	Proposed Solution must provide Micro-Segmentation / Distributed Firewall feature for isolation of East-West Traffic between VMs.	
(vi)	Proposed Solution must provide complete Network Visualization of Virtual Network.	
(vii)	Proposed Solution must provide capability for Network Quality of Service (QOS).	

Line Item N°	Description of Goods/Services	Qty
ITEM NO. 05	VM BACKUP SOLUTION	All VMs on Nodes

S#	Technical Description, Specifications and Standards Required
(i)	Proposed Solution must be fully Compatible with Compute Hypervisor
(ii)	Proposed Solution must provide the capability to take Full / Incremental level VM Backups.
(iii)	Proposed Solution should be licensed in a manner to take backups of every VM in the Cluster regardless of which physical Node it resides on.
(iv)	Proposed Solution must provide Automated Scheduling for Backups based on Hourly, Daily, weekly etc. scheduling.
(v)	Proposed Solution must support to configure Internal Virtual Storage, External SAN or NAS to be Backup repository for Storing Virtual Machine Backups.
(vi)	Proposed Solution must support Industry's common storage protocols such as iSCSI, FC or Network File Sharing (NFS).
(vii)	Proposed Backup solution must support workload backup on internal and external storage.

Line Item N°	Description of Goods/Services		QTY
6	Server Machine H3C/ DELL/ Lenovo or any International Renowned brand		
	Should be from a reputed vendor with global presence. Local presence of the brand with direct or affiliated support services would be an added advantage		
(i)	Form Factor	2U Rack mounted Server	3
(ii)	Processor	2 x 5th Generation Silver with 16Cores/30MB/150W)CPU or higher	
(iii)	Memory	8 x 64GB Dual Rank DDR5 RDIMM/DIMM Memory Module	
(iv)	Storage/Internal Drives	Should have below drives: 2x 480GB SATA RI M.2 SSD 2 x 960GB 6G SATA 3.5in RI SSD 3 x 8TB 6G SATA 7.2K 3.5in EV 512e HDD	
(v)	PCIe & OCP Slots	Should support 8 PCIe Standard Slots - Minimum PCIe4.0 (Gen4) or Higher and 2 Onboard OCP 3.0 Slots;) for 1/10/25/40/100/200Gb Ethernet Adapter or 100/200Gb InfiniBand card	
		Should Support Onboard OCP 3.0 x16 Slots for 4 x GE or 2 x 10GE or 2 x 25GE NICs	
(vi)	USB / VGA	2 VGA Rear Ports (1 Front, 1 Rear), 4 USB 3.0 Ports (2 Front, 2 Rear),1 Management Port	
(vii)	RAID Controller	Should have Hardware RAID SAS RAID Controller(4GB Cache,8 SAS Ports,PCIe)	
		Support RAID 0, 1, 5,6 or more	
(viii)	Network Connectivity	The server must have: at least 4 x 1Gbps RJ-45 Ethernet ports 2 x Dual Port 10Gb/s PCIe3.0 X8 SFP+ Fiber Interface Ethernet Adapter including transievers	
(ix)	Power Supply	Should have Dual Power Supply (1+1, hot-swappable) with power cords	
(x)	Stability	Support long-term operating temperature under specific conditions 5-45 Degree Celcius	
(xi)	Chassis	Chassis installed with 1 x 8 (3.5inch SAS/SATA/NVMe drives) Supported drive backplane Chassis should support atleast 24 x 2.5" drives and 24 x U.2 NVMe	
		Rack Mountable tool less chassis with sliding rails & cable management arm	
(xii)	Security Features	Should Support: Intelligent Front Security Bezel, Chassis Intrusion	

		Detection, TPM 2.0, 2FA for Hardware device Management, Intel SGX2.0.	
(xiii)	Accessories	Side rails, Cable management arm & Intelligent Security Bezel	
(xiv)	Compatibility	Supports mainstream operating systems, such as Windows, Ubuntu, Oracle Linux, SELS, RHEL Linux and VMware Hypervisor	
(xv)	Warranty & Principal Presence	Principal must have registered legal entity in Pakistan.	
		3 Year Principal 5x9 Next Business Day Onsite Support With Local Ware House preferably Islamabad, Lahore & Karachi and Also local OEM/Partner Support Team	
(xvi)	MAL	Valid Authorized letter from Manufacturer. Valid Authorized Distributor/Dealership certificate of Offered Brand.	
(xvii)	Training	Training and certification of Six resources by OEM	

Mandatory Clauses	
100% technical compliance is must	
Valid Certificate from Manufacturer (MAL/MAF) for the current year should be provided	
OEM must be legally present in Pakistan for atleast 5 years	
OEM must have Local Registered Office, Local Warehouse presence in Pakistan preferably Islamabad, Lahore & Karachi and Also local OEM/Partner Support Team	
Software upgradation / patching support direct from Principal	
Should not be End of Life, End of Sale & End of Support atleast in next 5 Years	
All cables/SFPs required for the Solution deployment/installation will be responsibility of the vendor.	
Training and certification of six resources by OEM of all the items in this LOT	

Line Item N°	Description of Goods/Services	QTY
7	Window Server	
1	Microsoft Windows Server Standard Edition 2022 or latest	96 Core

Line Item N°	Description of Goods/Services	QTY
8	KVM / KMM 17" LED display, Keyboard, 8-port USB switch with cables, can directly manage 5 servers & Core Devices. VGA interface, 1U rack mount with ethernet port	1

4. Inspections and Tests

The following inspections and tests shall be performed:

Inspection as per given technical specifications after delivery:

- i. For Equipment: After installation, testing, commissioning and training.
- ii. For services: After installation, testing, commissioning and training

Note: Verification Certificate will be issued by Consultant IT Strategy and Process Development, or his nominee, PPMC.

PART 3 - Contract

Section VIII. General Conditions of Contract

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Section VIII. General Conditions of Contract

1. Definitions

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

- (a) “Bank” means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).
- (b) “Contract” means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- (c) “Contract Documents” means the documents listed in the Contract Agreement, including any amendments thereto.
- (d) “Contract Price” means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
- (e) “Day” means calendar day.
- (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) “GCC” means the General Conditions of Contract.
- (h) “Goods/Services” 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.
- (i) “Purchaser’s Country” is the country specified in the Special Conditions of Contract (SCC).
- (j) “Purchaser” means the entity purchasing the Goods/Services and Related Services, as specified in the SCC.
- (k) “Related Services” means the services incidental to the supply of the Goods/Services, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.

- (l) “SCC” means the Special Conditions of Contract.
 - (m) “Subcontractor” means any person, private or government entity, or a combination of the above, to whom any part of the Goods/Services to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
 - (n) “Supplier” means the person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
 - (o) “The Project Site,” where applicable, means the place named in the SCC.
- 2. Contract Documents**
- 2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.
- 3. Corrupt and Fraudulent Practices**
- 3.1 The Bank requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Appendix to the GCC.
- 3.2 The Purchaser requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.
- 4. Interpretation**
- 4.1 If the context so requires it, singular means plural and vice versa.
- 4.2 Incoterms
- (a) Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms.
 - (b) The terms EXW, DDP, FCA, CFR and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the SCC and published by the International Chamber of Commerce in Paris, France.

4.3 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.4 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.5 No waiver

- (a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- (b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.6 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

- 5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in the language specified in the SCC. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified, in which case, for purposes of interpretation of the Contract, this translation shall govern.

- 5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.
- 6. Joint Venture, Consortium or Association**
- 6.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.
- 7. Eligibility**
- 7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.
- 7.2 All Goods/Services and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the Goods/Services have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.
- 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.
- 9.2 Throughout the execution of the Contract, the Contractor shall comply with the import of Goods/Services and services prohibitions in the Purchaser’s country when
- (a) as a matter of law or official regulations, the Borrower’s country prohibits commercial relations with that country; or
- 9.2 (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower’s Country prohibits any import of

Goods/Services from that country or any payments to any country, person, or entity in that country.

10 Settlement of Disputes

10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods/Services under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC.**

10.3 Notwithstanding any reference to arbitration herein,

(a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and

(b) the Purchaser shall pay the Supplier any monies due the Supplier.

11. Inspections and Audit by the Bank

11.1 The Supplier shall keep, and shall make all reasonable efforts to cause its Subcontractors to keep, accurate and systematic accounts and records in respect of the Goods/Services in such form and details as will clearly identify relevant time changes and costs.

11.2 The Supplier shall permit, and shall cause its Subcontractors to permit, the Bank and/or persons appointed by the Bank to inspect the Supplier's offices and all accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier's and its Subcontractors and consultants' attention is drawn to Clause 3 [Fraud and Corruption], which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under this Sub-Clause 11.1 constitute a prohibited practice subject to contract termination (as well as to a

- determination of ineligibility pursuant to the Bank's prevailing sanctions procedures)
- 12. Scope of Supply** 12.1 The Goods/Services and Related Services to be supplied shall be as specified in the Schedule of Requirements.
- 13. Delivery and Documents** 13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods/Services and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are specified in the SCC.
- 14. Supplier's Responsibilities** 14.1 The Supplier shall supply all the Goods/Services and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.
- 15 Contract Price** 15.1 Prices charged by the Supplier for the Goods/Services supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in the SCC.
- 16. Terms of Payment**
- 16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the SCC.
- 16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods/Services delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract.
- 16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.
- 16.4 The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the bid price is expressed.
- 16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the SCC, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the SCC, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.

17. Taxes and Duties

- 17.1 For Goods/Services manufactured 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/Services Manufactured 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/Services 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 If required as specified in the SCC, the Supplier shall, within twenty-eight (28) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount specified in the SCC.
- 18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 18.3 As specified in the SCC, the Performance Security, if required, shall be denominated in the currency(ies) of the Contract, or in a freely convertible currency acceptable to the Purchaser; and shall be in one of the format stipulated by the Purchaser in the SCC, or in another format 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 performance of the Contract.

20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:

- (a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;
- (b) now or hereafter enters the public domain through no fault of that party;
- (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
- (d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.

20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

21. Subcontracting

21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the bid. Such notification, in the original bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

22. Specifications and Standards**22.1 Technical Specifications and Drawings**

- (a) The Goods/Services and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section VI, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods/Services' country of origin.
- (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
- (c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

23. Packing and Documents

23.1 The Supplier shall provide such packing of the Goods/Services as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods/Services' final destination and the absence of heavy handling facilities at all points in transit.

23.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the SCC, and in any other instructions ordered by the Purchaser.

24. Insurance

24.1 Unless otherwise specified in the SCC, the Goods/Services supplied under the Contract shall be fully insured—in a freely convertible currency from an eligible country—against loss or damage incidental to manufacture or acquisition, transportation,

storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the SCC.

25. Transportation and Incidental Services

- 25.1 Unless otherwise specified in the SCC, responsibility for arranging transportation of the Goods/Services shall be in accordance with the specified Incoterms.
- 25.2 The Supplier may be required to provide any or all of the following services, including additional services, if any, **specified in SCC:**
- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods/Services;
 - (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods/Services;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods/Services;
 - (d) performance or supervision or maintenance and/or repair of the supplied Goods/Services, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
 - (e) training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods/Services.
- 25.3 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods/Services, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services

26. Inspections and Tests

- 26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods/Services and Related Services as are specified in the SCC.
- 26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods/Services' final destination, 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/Services 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/Services 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/Services 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/Services 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/Services by the Date(s) of delivery or perform the Related Services within the period

specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the SCC of the delivered price of the delayed Goods/Services or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those SCC. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

28. Warranty

- 28.1 The Supplier warrants that all the Goods/Services 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(b), the Supplier further warrants that the Goods/Services 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/Services, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the SCC, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.
- 28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the SCC, expeditiously repair or replace the defective Goods/Services 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/Services by the Supplier or the use of the Goods/Services in the country where the Site is located; and
- (b) the sale in any country of the products produced by the Goods/Services.

Such indemnity shall not cover any use of the Goods/Services 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/Services 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 criminal negligence or willful misconduct,
- (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay 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 total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the purchaser with respect to patent infringement

31. Change in Laws and Regulations

- 31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of 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/Services to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- (b) the method of shipment or packing;
- (c) the place of delivery; and
- (d) the Related Services to be provided by the Supplier.

33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier’s performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier’s receipt of the Purchaser’s change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

33.4 Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

34. Extensions of Time

34.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods/Services or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

35. Termination

35.1 Termination for Default

- (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
 - (i) if the Supplier fails to deliver any or all of the Goods/Services within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34;
 - (ii) if the Supplier fails to perform any other obligation under the Contract; or
 - (iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 3, in competing for or in executing the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods/Services 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/Services or Related Services.

However, the Supplier shall continue performance of the Contract to the extent not terminated.

35.2 Termination for Insolvency.

- (a) The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser

35.3 Termination for Convenience.

- (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods/Services that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods/Services, 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/Services and Related Services and for materials and parts previously procured by the Supplier.

36. Assignment

- 36.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

**37. Export
Restriction**

- 37.1 Notwithstanding any obligation under the Contract to complete all export formalities, any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/Goods/Services, systems or services to be supplied, which arise from trade regulations from a country supplying those products/Goods/Services, systems or services, and which

substantially impede the Supplier from meeting its obligations under the Contract, shall release the Supplier from the obligation to provide deliveries or services, always provided, however, that the Supplier can demonstrate to the satisfaction of the Purchaser and of the Bank that it has completed all formalities in a timely manner, including applying for permits, authorizations and licenses necessary for the export of the products/Goods/Services, systems or services under the terms of the Contract. Termination of the Contract on this basis shall be for the Purchaser's convenience pursuant to Sub-Clause 35.3.

APPENDIX TO GENERAL CONDITIONS

Bank's Policy- Corrupt and Fraudulent Practices

(text in this Appendix shall not be modified)

Guidelines for Procurement of Goods/Services, Works, and Non-Consulting Services under IBRD Loans and IDA Credits & Grants by World Bank Borrowers, dated January 2011:

“Fraud and Corruption:

1.16 It is the Bank's policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts.¹⁰ In pursuance of this policy, the Bank:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;¹¹;
 - (ii) “fraudulent practice” is 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;¹²
 - (iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;¹³

¹⁰ In this context, any action to influence the procurement process or contract execution for undue advantage is improper.

¹¹ For the purpose of this sub-paragraph, “*another party*” refers to a public official acting in relation to the procurement process or contract execution. In this context, “*public official*” includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

¹² For the purpose of this sub-paragraph, “*party*” refers to a public official; the terms “*benefit*” and “*obligation*” relate to the procurement process or contract execution; and the “*act or omission*” is intended to influence the procurement process or contract execution.

¹³ For the purpose of this sub-paragraph, “*parties*” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other's bid prices or other conditions.

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- (iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;¹⁴
- (v) "obstructive practice" is:
- (aa) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or
 - (bb) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under paragraph 1.16(e) below.
- (b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- (c) will declare misprocurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- (d) will sanction a firm or individual, at any time, in accordance with the prevailing Bank’s sanctions procedures,¹⁵ including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated¹⁶;

¹⁴ For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.

¹⁵ A firm or individual may be declared ineligible to be awarded a Bank financed contract upon: (i) completion of the Bank’s sanctions proceedings as per its sanctions procedures, including, inter alia, cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks, and through the application the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption; and (ii) as a result of temporary suspension or early temporary suspension in connection with an ongoing sanctions proceeding. See footnote 14 and paragraph 8 of Appendix 1 of these Guidelines.

¹⁶ A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which has either been: (i) included by the bidder

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- (e) will require that a clause be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers and contractors, and their sub-contractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank to inspect all accounts, records, and other documents relating to the submission of bids and contract performance, and to have them audited by auditors appointed by the Bank.”

in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

Section IX. Special Conditions of Contract

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

GCC 1.1(i)	The Purchaser's country is: Pakistan
GCC 1.1(j)	The Purchaser is: Power Planning & Monitoring Company(PPMC), PIU-EDEIP, Ministry of Energy (Power Division)
GCC 1.1 (o)	The Project Site(s)/Final Destination(s) is/are: OFFICE OF THE MANAGING DIRECTOR (MD), PPMC, OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, F-5/1 ISLAMABAD. PHONE NO: 051-9211301 051-9211302
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms. If the meaning of any trade term and the rights and obligations of the parties thereunder shall not be as prescribed by Incoterms, they shall be as prescribed by:
GCC 4.2 (b)	The version edition of Incoterms shall be INCOTERMS latest edition: DDP (DELIVERED DUTY PAID)
GCC 5.1	The language shall be: English
GCC 8.1	For notices , the Purchaser's address shall be: POWER PLANNING & MONITORING COMPANY, OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, F-5/1 ISLAMABAD City: Islamabad Email: info@ppmc.gov.pk Phone No: 051-9211301
GCC 9.1	The governing law shall be the law of: Islamic Republic of Pakistan
GCC 10.2	The rules of procedure for arbitration proceedings pursuant to GCC Clause 10.2 shall be as follows: In the case of a dispute between the Purchaser and a Supplier, the dispute shall be referred to adjudication or arbitration in accordance with the laws of the Purchaser's country.
GCC 13.1	Details of Shipping and other Documents to be furnished by the Supplier are <i>a non-negotiable sea way bill, a railway consignment note or a road consignment note, insurance certificate, Manufacturer's or Supplier's warranty certificate, inspection certificate issued by a nominated inspection agency, Supplier's factory shipping details.</i> The above documents shall be received by the Purchaser before arrival of the Goods/Services and, if not received, the Supplier will be responsible for any consequent expenses.
GCC 14	

GCC 15.1	The prices charged for the Goods/Services supplied and the related Services performed “ shall not, ” be adjustable.
GCC 16.1	<p>Payment of the Equipment, Software and Support will be made directly by consignees within thirty days, from the date of receipt of invoice, on production of following documents:</p> <p>For Lot 1, 2, 4, 5, 6:</p> <ul style="list-style-type: none"> i) submission of Invoice having NTN & Sales Tax ii) Inspection/ Verification/Acceptance Certificate issued by PPMC. iii) Import Documents (Bill of lading; Packing list; Performa Invoice; Insurance etc.) iv) Warranty Certificate v) On Provision of relevant S.R.O, Tax will not be deducted <p>For Lot 3:</p> <ul style="list-style-type: none"> i) submission of Invoice having NTN & Sales Tax ii) Inspection/ Verification/Acceptance Certificate issued by PPMC.
GCC 16.5	<p>The payment-delay period after which the Purchaser shall pay interest to the supplier shall be thirty (30) days.</p> <p>The interest rate that shall be applied as per Policy Rate subject to the availability of funds by Ministry of energy (Power Division)</p>
GCC 18.1	A Performance Security shall be submitted by the successful bidder/bidders within twenty-eight (28) days of the notification of contract award, The amount of the Performance Security shall be: 10% of the contract value
GCC 18.3	Performance Security shall be in the form of: Bank Guarantee (from any scheduled bank)
GCC 18.4	<p>Discharge of the Performance Security shall take place:</p> <ul style="list-style-type: none"> • For Lot 1, after three (03) years from issuance date of successful completion certificate. • For Lot 2, after three (03) years from issuance date of successful completion certificate. • For Lot 3 after two (02) years from issuance date of successful completion certificate. • For Lot 4 after three (03) years from issuance date of successful completion certificate. • For Lot 5 after three (03) years from issuance date of successful completion certificate. • For Lot 6 after three (03) years from issuance date of successful completion certificate.
GCC 23.2	The packing, marking and documentation within and outside the packages shall be: <i>Required</i> where applicable
GCC 24.1	The insurance coverage till project site (PPMC office Islamabad) and during installation, testing and commissioning shall be applicable.
GCC 25.1	Responsibility for transportation of the Goods/Services shall be the responsibility of the supplier till project site (PPMC office Islamabad) and during installation, testing and commissioning.

GCC 25.2	Incidental/ancillary services to be provided are: All services are required to supply, installation, testing and commissioning of the equipment. No extra payment for incidental /ancillary services shall be made. Cost of incidental/ancillary services shall be deemed included in the quoted prices.
GCC 26.1	Pre-Shipment inspection: N/A.
GCC 26.2	The Post-Shipment Inspections and tests shall be conducted at: OFFICE OF THE MANAGING DIRECTOR (MD) PPMC, OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, F-5/1 ISLAMABAD
GCC 26.3	Not Applicable.
GCC 27.1	The liquidated damage shall be: 0.5 % of contract value per week
GCC 27.1	The maximum amount of liquidated damages shall be: 10%
GCC 28.3	The period of validity of the Warranty shall be: <ul style="list-style-type: none"> • For Lot 1, three (03) years from issuance date of successful completion certificate. • For Lot 2, three (03) years from issuance date of successful completion certificate. • For Lot 3: Not Applicable • For Lot 4, three (03) years from issuance date of successful completion certificate. • For Lot 5, three (03) years from issuance date of successful completion certificate. • For Lot 6, three (03) years from issuance date of successful completion certificate. <p>For purposes of the Warranty, the place(s) of final destination (s) shall be: OFFICE OF THE CONSULTANT IT STRATEGY & PROCESS DEVELOPMENT, PPMC, OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, F-5/1 ISLAMABAD</p>
GCC 28.5	The period for repair or part replacement shall be: <i>As per terms and condition specified in each lot.</i>

Section X. Contract Forms

This Section contains forms which, once completed, will form part of the Contract. The forms for Performance Security and Advance Payment Security, when required, shall only be completed by the successful Bidder after contract award.

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Letter of Acceptance

[letterhead paper of the Purchaser]

[date]

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

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

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

You are requested to furnish the Performance Security within 28 days in accordance with
the Conditions of Contract, using for that purpose the of the Performance Security Form
included in Section X, Contract Forms, of the Bidding Document.

Authorized Signature: _____
Name and Title of Signatory: _____
Name of Agency: _____

Attachment: Contract Agreement

Contract Agreement

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

THIS AGREEMENT made

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

BETWEEN

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

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

The Purchaser and the Supplier agree as follows:

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

-
- (g) the completed Schedules (including Price Schedules)
 - (h) any other document listed in GCC as forming part of the Contract

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

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

For and on behalf of the Purchaser

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

For and on behalf of the Supplier

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

Performance Security

(Bank Guarantee)

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

[Guarantor letterhead or SWIFT identifier code]

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

Date: *_ [Insert date of issue]*

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

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

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

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

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

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

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

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

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

[signature(s)]

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

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

Advance Payment Security

[Guarantor letterhead or SWIFT identifier code]

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

Date: *[Insert date of issue]*

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

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

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

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

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

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

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above

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

has been credited to the Applicant on its account number *[insert number]* at *[insert name and address of Applicant's bank]*.

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

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

[signature(s)]

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



POWER PLANNING & MONITORING COMPANY (PPMC)
MINISTRY OF ENERGY (POWER DIVISION)
INVITATION FOR BIDS



Procuring Agency: PPMC, PIU-EDEIP, Ministry of Energy (Power Division)

Country: Pakistan

Name of Project: Electricity Distribution Efficiency Improvement Project (EDEIP)

Contract Title: Procurement of IT Infrastructure for PPMC

Reference No. PK-MOE-526145-GO-RFB

Loan No.: 9318-PK (P170230)

The Government of Pakistan has received financing from the International Bank for Reconstruction and Development (IBRD) for the implementation of Ministry of energy Power (Division)/ **Procurement of IT Infrastructure for PPMC** and intends to support a contract that may be awarded as per criteria mentioned in bidding documents. We invite sealed bids from eligible bidders for the “**Procurement of IT Infrastructure for PPMC**”. The procurement shall be carried out through single stage one envelope procedure.

Equipment/ Services	
LOT 1	Networking (IT Infrastructure & Computing)
LOT 2	Data Center Facility Improvement and Smart Screens
LOT 3	Point to Point (P2P) Connectivity
LOT 4	Workstation (High-End) with UPS
LOT 5	Network Printers
LOT 6	HCI/ Virtualization & Servers Machine

Note: Bidders may submit bids lot-wise and evaluation as well as award of contract will be lot-wise Bidding will be conducted through National Competitive Bidding (NCB). Procurement shall be done in accordance with “**World Bank Procurement Regulations for IPF Borrowers (November 2020)**”. Interested eligible bidders may obtain further information from POWER PLANNING & MONITORING COMPANY, OFFICE # 112, EVACUEE TRUST COMPLEX, AGHA KHAN ROAD, ISLAMABAD or by emailing info@ppmc.gov.pk Phone No: 051-9211301, during office timings. Bidding documents can be downloaded from websites <https://www.ppmc.gov.pk> and <https://www.power.gov.pk> free of cost. Bids must be delivered to the above office address on or before **March 31st, 2026 (Tuesday) by 11:00 AM** and must be accompanied by a bid security.

Bid Security will be submitted by bidders in favor of “**Electricity Distribution Efficiency Improvement Project (EDEIP)**” in shape of CDR, SDR, Pay Order, Demand Draft, Banker’s Cheque, or Unconditional Bank Guarantee @2% of total bid value for each lot, bidder is participating, issued by a scheduled Bank in Pakistan

Bids will be publicly opened in presence of the Bidders’ designated representative and anyone who chooses to attend at the address below on **March 31st, 2026 (Tuesday) by 11:30 AM**. Late submission of bids shall be returned unopened, and electronic submission is not permitted.

Power Planning & Monitoring Company (PPMC)
Government of Pakistan, Ministry of Energy (Power Division)
Office # 112, Evacuee Trust Complex, Agha Khan Road, F-5/1 Islamabad, Pakistan
Attention: Director Services
Phone: 051-9211301 | 051-9211302, Email: info@ppmc.gov.pk