

Amendments are highlighted in “RED” font

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**PROCUREMENT OF AI-ENABLED DATA CENTER INFRASTRUCTURE,
NETWORKING, SECURITY, IT FACILITY SETUP INCLUDING HARDWARE,
SOFTWARE, POWER, COOLING, AND ALLIED SERVICES ON TURNKEY BASIS
FOR A PROJECT IMPLEMENTED BY PITB**

ITOPS - 23



Punjab Information Technology Board (PITB)

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Section-I: Invitation to Bids

BIDDING DOCUMENTS FOR THE PROCUREMENT OF AI-ENABLED DATA CENTER INFRASTRUCTURE, NETWORKING, SECURITY, IT FACILITY SETUP INCLUDING HARDWARE, SOFTWARE, POWER, COOLING, AND ALLIED SERVICES ON TURNKEY BASIS – ITOPS-23

1. E-Bids on Lot basis are invited from Bidders i.e., firms/companies/sole proprietor/ general order Service Providers/ (JVs, if applicable) etc. engaged in trading, registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax, Sales Tax & Punjab Sales Tax etc.). The bidders should submit E-bids against each Lot separately, as contracts will be awarded separately for each Lot. The E-bids shall be received as per single stage two envelope procedures.

Lot	Description	QTY	Total Estimated Cost	Bid Security (Fixed)
1	AI-Enabled Data Center Infrastructure, Networking, Security, IT Facility Setup Including Hardware, Software, Power, Cooling, and Allied Services on Turnkey Basis	Multiple	600,000,000	12,000,000

2. All E-bids must be accompanied by a Bid Security of the estimated price, as mentioned in the Table above, in the name of “Punjab Information Technology Board”, and in the form of CDR/Bank Guarantee / Demand Draft / Pay Order. Late E-bids shall be rejected.
3. The complete E-bids must be submitted online on e-Procurement System (EPADS) website i.e., <https://punjab.eprocure.gov.pk> as per the following schedule:

Pre-Bid Meeting Date, Time & Place	08 JUNE, 2026 @ 11:00 AM 11th Floor, Arfa Software Technology Park (ASTP), 346-B, Ferozpur Road, Lahore.
E-bid Submission Date & Time	17 JUNE 01 JULY, 2026 @ 11:00 AM
E-bid Opening Date & Time	17 JUNE 01 JULY, 2026 @ 11:30 AM

4. Original Bid Security Instrument must be submitted in an envelope clearly marked with the Bidding Document Number and Title, before the conclusion of Bid Opening session at:

Procurement Office

11th Floor, Arfa Software Technology Park (ASTP), 346-B, Ferozpur Road, Lahore.

Bidders are advised to ensure uploading the Bid on E-PADS Portal, well before the submission deadline, and not wait for the last date and time to upload the bid. Bid submission on E-PADS Portal shall entirely be the responsibility of the bidder. PITB shall not be held responsible for any issues thereof. For any assistance regarding E-PADS Portal, system support email and phone numbers are provided hereunder:

5. Bidding Documents are immediately available after date of publication. Punjab Information Technology Board will not be responsible for any cost or expense incurred by Bidders in connection with the preparation or delivery of E-bids. In case of official holiday on the day of submission, next day will be treated as closing date. The Bidding document carrying all details can also be downloaded from Punjab Information Technology Board's website <https://pitb.gov.pk/tendernotices>, and website of Punjab Procurement Regulatory Authority <http://ppra.punjab.gov.pk>.
6. For electronic bids submission, bidders are requested to register at www.punjab.eprocure.gov.pk. For any queries regarding registration on EPADS please contact at: 1248.

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Section-II: Instructions to Bidders (ITB)

Note: - All the procurement procedures shall be conducted in accordance with Punjab Procurement Authority Act-2009 and Punjab Procurement Rules-2014. In case of any conflict between the provision of this document and PPRA Act-2009/ PPRA Rules-2014, the later shall prevail.

2.1. Introduction

- 2.1.1 Scope of Bid**
- i) The Procuring Agency (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the provision of Goods as specified in the Section-IV Bid Data Sheet (BDS) and Section III - Technical Specifications & Section VII- Schedule of Requirements. The successful Bidders will be expected to deliver, install/ commissioning) the goods within the specified period and timeline(s) as stated in the BDS.
- 2.1.2 Source of Funds**
- i) The Procuring Agency named in the Bid Data Sheet has received budget from the Government of Punjab. The Procuring Agency intends to apply the provided funds/ a portion of this budget to make eligible payments under the contract for which the Invitation to bids has been issued.
- 2.1.3 Eligible Bidders**
- i) The Invitation to Bids is open to all suppliers i.e., association of firms/companies/sole proprietor/ general order suppliers / (JV, if applicable), registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax, Sales Tax & Punjab Sales Tax etc.), and registered on e-Procurement System (EPADS), except as provided hereinafter.
 - ii) Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consultancy services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation to Bids [if applicable].
 - iii) Government-owned enterprises may participate only if they are duly/legally authorized in this regard by the respective/relevant competent forum/authority.
 - iv) Bidders shall not be under a declaration of blacklisting by the Procuring Agency.
 - v) In the case of a Joint Venture, Consortium, or Association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of

the Contract. The Joint Venture, Consortium, or Association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of contract.

[It is upon procuring agency to decide the participation of Bidders in J.V mode. The limit on the number of members of JV or Consortium or Association and extent of their role shall be prescribed in BDS, in accordance with the guidelines issued by the PPRA].

- vi) The appointment of Lead Member in the Joint Venture, Consortium, or Association shall be confirmed by submission of a valid JV or Consortium agreement to the Procuring Agency.
- vii) Any agreement that forms a Joint Venture, Consortium or Association shall be required to be submitted as part of the E-bid and shall be attested.
- viii) Any E-bid submitted by the Joint Venture, Consortium or Association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated or post qualified with respect to its contribution only and the responsibilities of each party and shall not be substantially altered without prior written approval of the Procuring Agency and in line with any instructions issued by the Authority.
- ix) The invitation for Bids is open to all prospective Supplier, Manufacturers or Authorized Agents/Dealers/Distributors subject to any provisions or licensing/regulatory requirements issued by the respective National/ Provincial Professional Statutory Body established for that particular trade or business as mentioned in bid data sheet.
- x) A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be non-Responsive. A Bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if they:
 - a) Are associated or have been associated for the procurement of the goods to be purchased under this Invitation for Bids, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation

of the design, specifications and other documents to be used.

- b) Have controlling shareholders in common; or
 - c) Receive or have received any direct or indirect subsidy from any of them; or
 - d) Have the same legal representative for purposes of this E-bid; or
 - e) Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or
- xii) A Bidder may be ineligible if –
- (a) The Bidder is declared bankrupt or, in the case of company or firm, insolvent;
 - (b) Payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting, in accordance with the national laws, in the total or partial loss of the right to administer and dispose of its property;
 - (c) Legal proceedings are established against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property;
 - (d) The Bidder is convicted, by a final judgment, of any offence involving professional conduct;
 - (e) The Bidder is debarred and blacklisted due to involvement in corrupt and fraudulent practices in accordance with the provision of section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.
 - (f) The Bidder is debarred and blacklisted in general (i.e., to the extent of all public procurement) due to consistent performance failure in accordance with the section 17A

of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.

(g) The firm, supplier or contractor is blacklisted/ debarred by any international organization.

- xiii) Bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.
- xiv) Bidders shall provide such evidence of their continued eligibility satisfactory to the Procuring Agency, as the Procuring Agency shall reasonably request.
- xv) Bidders shall submit proposals relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to more than ten percent of the Bid price is envisaged.

2.1.4. Eligible Goods and Services

- i) All goods and related services to be supplied under the Contract shall have their origin in eligible source countries, defined in the *Bid Data Sheet (BDS/Technical Specification)*, and all expenditures made under the contract will be limited to such goods and related services.
- ii) For purposes of this clause, “origin” means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product is obtained that is substantially different in basic characteristics or in purpose or utility from its components.
- iii) The origin of goods and services is distinct from the nationality of the Bidder. *In any case, the requirements of Rules 10 & 26 of PPR-14, shall be followed.*

2.1.5. Cost of Bidding

- i) The Bidder shall bear all costs associated with the preparation and submission of its E-bid, and the Procuring Agency named in the Bid Data Sheet, hereinafter referred to as “the Procuring Agency,” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

2.1.6. One person one bid

- i) As per Rule 36A of Punjab Procurement Rules 2014, a Bidder shall submit only one Bid in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.

- ii) No Bidder can be a sub-contractor while submitting a Bid individually or as a member of a joint venture in the same Bidding process.
- iii) A Bidder, if acting in the capacity of sub-contractor in any Bid, shall not submit bid for the same.

2.2. The Bidding Documents

2.2.1. Content of Bidding Documents

- i) The goods required, Bidding procedures, and contract terms are prescribed in the Bidding documents. The Bidding documents, inter alia, include:
 - (a) Invitation to Bids
 - (b) Instructions to Bidders (ITB)
 - (c) Technical Specifications
 - (d) Bid Data Sheet
 - (e) General Conditions of Contract (GCC)
 - (f) Special Conditions of Contract (SCC)
 - (g) Schedule of Requirements
 - (h) Bid Form
 - (i) Manufacturer's Authorization Form
 - (j) Bidder Profile Form
 - (k) General Information Form
 - (l) Affidavit
 - (m) Bid Security Form
 - (n) Technical Bid Form
 - (o) Contract Form
 - (p) Financial Bid Form / Price Schedule
 - (q) Performance Guarantee Form
 - (r) Check List

- ii) The Bidder is required to examine all instructions, forms, terms, and specifications in the Bidding documents. Failure to furnish all information as required by the Bidding documents or to submit a Bid not responsive to the Bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its Bid.
- iii) In case of discrepancies between the Invitation to Bid and the Bidding Documents listed in ITB 2.2.1 (i) above, the said Bidding Documents, not in conflict with any provision of PPR-14, will take precedence.
- iv) The Procuring Agency is not responsible for the completeness of the Bidding Documents and their addenda, if they were not obtained directly from the Procuring Agency or from its website or website of PPRA. Re-confirming from the Procuring Agency that all pages/ contents have been properly and clearly received is the prime responsibility of the Bidder.

2.2.2. Clarification of Bidding Documents

- i) A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency in writing or by email at the Procuring Agency's address indicated in Invitation to Bid/ Tender Notice/ Advertisement or on the e-Procurement System (EPADS). The Procuring Agency will respond in writing to any request for clarification of the Bidding documents which it receives no later than **seven (07) days** prior to the deadline for the submission of Bids prescribed in the Bid Data Sheet. The Procuring Agency's response (including an explanation of the query but without identifying) will be uploaded on the e-Procurement System (EPADS) for clarity of bidders.
- ii) A prospective Bidder requiring any clarification of the Bidding Documents may notify the Procuring Agency through e-Procurement System (EPADS).
- iii) The Procuring Agency will within **three (03) working** days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than **seven (07) days** prior to the deadline for the submission of Bids. As prescribed in ITB 2.2.2 (i), above. However, this clause shall not apply in case of alternate methods of Procurement.
- iv) Copies of the Procuring Agency's response will be uploaded on e-Procurement System (EPADS) and shared with the

prospective bidders through other means, including a description of the inquiry, but without identifying its source.

- v) Should the Procuring Agency deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB 2.2.3.
- vi) If indicated in the BDS, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned in the BDS. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding Documents.
- vii) Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective Bidders by uploading same on the e-Procurement System (EPADS), and shared with the prospective bidders through other means. Any modification to the Bidding Documents that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to ITB 2.2.3. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

2.2.3. Amendment of Bidding Documents

- i) At any time prior to the deadline for submission of Bids, but not later than three (3) days before the closing date of the submission of Bid, the Procuring Agency, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the Bidding documents by amendment. Any such change/amendment in the Bidding documents shall be provided in a timely manner, through e-Procurement System (EPADS), not later than three (3) days, and on equal opportunity basis as per Rule-25(3) OR Rule 25(4) of PPR-14 as the case may be.
- ii) In order to allow prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Agency, at its discretion, may extend the deadline for the submission of Bids, as per rule 29 of PPR-14, in the manner similar to the original advertisements, so as to avoid any inconvenience and to doubly ensure level playing field for all prospective bidders.

2.3. Preparation of Bids

- 2.3.1. Language of Bid**
- i) The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency shall be written in the language specified in the Bid Data Sheet. Supporting documents and printed literature furnished by the Bidder may be in same language.
- 2.3.2. Bid Form**
- i) The Bidder shall complete the Bid Form and the appropriate Price Schedule (Financial Bid) furnished in the Bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.
- 2.3.3. Bid Prices**
- i) The Bidder shall indicate on form 8.10 the unit prices (where applicable) and total Bid price of the goods it proposes to supply under the contract.
- ii) Prices indicated on the Price Schedule shall be **item wise and lot wise.**
- iii) The Bidder's separation of price components in accordance with ITB Clause 2.3.3(ii) above will be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency and will not in any way limit the Procuring Agency's right to contract on any of the terms offered.
- iv) 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 Bid Data Sheet. A E-bid submitted with an adjustable price quotation will be treated as non-responsive and may be rejected.
- 2.3.4. Bid Currencies**
- i) Prices shall be quoted in **Pak Rupees** unless otherwise specified in the Bid Data Sheet.
- 2.3.5. Documents Establishing Bidder's Eligibility and Qualification**
- i) Pursuant to ITB Clause 2.1.3, the Bidder shall furnish, as part of its E-bid, documents establishing the Bidder's eligibility to Bid and its qualifications to perform the contract if its E-bid is accepted.
- ii) The documentary evidence of the Bidder's eligibility to Bid shall establish to the Procuring Agency's satisfaction that the Bidder, at the time of submission of its E-bid, is eligible as defined under ITB Clause 2.1.3.

- iii) The documentary evidence, of the Bidder's qualifications to perform the contract if its E-bid is accepted, shall establish to the Procuring Agency's satisfaction:
 - (a) that, in the case of a Bidder offering to supply goods / software under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer [*Manufacturer's Authorization form No. 8.3*] or producer to supply/provide the same in Pakistan;
 - (b) that the Bidder has the financial, technical, and production capability necessary to perform the contract;
 - (c) that, in the case of a Bidder not doing business within Pakistan, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped, and able to carry out the Supplier's maintenance, repair, spare parts-stocking, and subscription obligations prescribed in the Conditions of Contract and/or Technical Specifications; and
 - (d) that the Bidder meets the qualification criteria listed in the Bid Data Sheet.

2.3.6. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

- i) Pursuant to ITB Clause 2.1.4, the Bidder shall furnish, as part of its E-bid, documents establishing the eligibility and conformity to the Bidding documents of all goods and related services which the Bidder proposes to supply under the contract.
- ii) The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule/Financial Bid Form of the country of origin of the goods and services offered which shall be confirmed by a Certificate of Origin issued at the time of shipment.
- iii) The documentary evidence of conformity of the goods and services to the Bidding documents may be in the form of literature, drawings, data and shall consist of:
 - (a) a detailed description of the essential technical and performance characteristics of the goods;
 - (b) 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 for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring Agency; and

- (c) an item-by-item commentary on the Procuring Agency's Technical Specifications demonstrating responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.
 - (d) Optional Bid/Quote is not allowed. The bidders must comply with the requirements mentioned in SECTION – III and submit their bid accordingly against each item.
- iv) For purposes of the commentary to be furnished, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring Agency in its Technical Specifications, are intended to be descriptive only and not restrictive.
- v) Where a sample(s) is required by a procuring agency, the sample shall be:
 - (a) submitted as part of the E-bid, in the quantities, dimensions and other details requested in the BDS;
 - (b) carriage paid;
 - (c) received on, or before, the closing time and date for the submission of E-bids; and
 - (d) Evaluated to determine compliance with all characteristics listed in the BDS.

{However, the procuring agency may also opt to ask for samples after submission of technical bids (where required)}
- vi) The Procuring Agency may retain the sample(s) of the successful Bidder till the successful delivery of the goods. A Procuring Agency may reject the E-bid if the sample(s)-
 - (a) do(es) not conform to all characteristics prescribed in the bidding documents; and
 - (b) is/are not submitted within the specified time clearly mentioned in the Bid Data Sheet.
- vii) Where it is not possible to avoid using a propriety article as a sample, a Bidder shall make it clear that the propriety article is displayed only as an example of the type or quality of the goods being Bided for, and that competition shall not thereby be limited to the extent of that article only.
- viii) Samples made up from materials supplied by a Procuring Agency shall not be returned to a Bidder nor shall a Procuring Agency be liable for the cost of making them.

- ix) All samples produced from materials belonging to an unsuccessful Bidder may be kept by the Procuring Agency till **thirty (30) days** from the date of award of contract or exhaust of all the grievance forums (including those pending at Authority's Level or in some Court of Law).
- x) Pursuant to the requirements as indicated in ITB 2.3.6, the Bidder shall furnish, as part of its E-bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all goods and related services which the Bidder proposes to deliver.
- xi) The Bidder shall also furnish a list giving full particulars, including available sources and current prices of goods, spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the BDS following commencement of the use of the goods by the Procuring Agency.
- xii) The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation attested by the embassy in country of manufacturer into English shall be attached to the original version.

2.3.7. Bid Security

- i) The Bidder shall furnish, as part of its E-bid, a Bid security in the amount specified in the Bid Data Sheet.
- ii) The Bid security is required to protect the Procuring Agency against the risk of Bidder's conduct which would warrant the security's forfeiture Pursuant to ITB Clause 2.3.7. (vii).
- iii) The Bid security shall be in Pakistan Rupees and shall be in one of the following forms:
 - (a) Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker's cheque valid for
Thirty (30) Days, beyond the validity of Bid, or until furnishing of the Performance Security, whichever is later.**
- iv) Any E-bid not secured in accordance with ITB Clauses 2.3.8 (i) and (ii) may be rejected by the Procuring Agency as non-responsive.
- v) Unsuccessful Bidders' Bid security will be discharged or returned as promptly as possible but not later than **Thirty (30) days** after the expiration of the period of Bid validity prescribed by the Procuring Agency pursuant to ITB Clause 2.3.8 (ii) or along with unopened financial proposal as per rule

38(2)(a)(vii) of PPR-14, which shall take precedence, and is as under:

“38(2)(a)(vii) the financial proposal of the Bids found technically non-responsive shall be retained unopened and shall be returned on the expiry of the grievance period or the decision of the complaint, if any, filed by the non-responsive Bidder, whichever is later:

provided that the Procuring Agency may return the sealed financial proposal earlier if the disqualified or non-responsive Bidder, contractor or consultant submits an affidavit, through an authorized representative, to the effect that he is satisfied with the proceedings of the Procuring Agency”.

- vi) The successful Bidder’s Bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 2.6.1, and furnishing the Performance Guarantee, pursuant to ITB Clause 2.6.2.
- vii) The Bid security may be forfeited:
 - a. If a Bidder withdraws its E-bid during the period of Bid validity specified by the Bidder on the Bid Form; or
 - b. In the case of a successful Bidder, if the Bidder:
 - i. Fails to sign the contract in accordance with ITB Clause 2.6.3; **or**
 - ii. Fails to furnish Performance Guarantee in accordance with ITB Clause 2.6.2; or
 - iii. If the blacklisting proceedings under Section-17A of PPRA Act, 2009 read with Rule-21 of PPR-14 are initiated and the bidder is declared blacklisted after due process of law.

2.3.8. Period of Validity of Bids

- i) Bids shall remain valid for the period specified in the Bid Data Sheet after the date of Bid opening prescribed by the Procuring Agency. A Bid valid for a shorter period may be rejected by the Procuring Agency as non-responsive.
- ii) In exceptional circumstances, the Procuring Agency may solicit the Bidder’s consent to an extension of the period of validity (as per rule-28 of PPR-14). The request and the responses thereto shall be made in writing (or by email / through e-Procurement System (EPADS)). The Bid security provided under ITB Clause 2.3.8 shall also be suitably extended. A

Bidder may refuse the request without forfeiting its Bid security. A Bidder accepting the request will not be required nor permitted to modify its Bid.

2.3.9. Format and Signing of Bid

- i) The Bidder shall prepare E-bid of the scanned documents in the form of PDF file and as per requirements in tender document.
- ii) The Bidder shall authorize a person/ persons for signing, submission and further correspondence with Procuring Agency on behalf of bidder. Authority letter must be part of E-bid. However, in case of any issue bidder shall be responsible for all consequences.
- iii) All scanned pages of the E-Bid, shall be signed and stamped by the authorized person before scanning.
- iv) Any interlineation, erasures, or overwriting shall be valid only if they are initialed by the authorized person for signing the E-Bid.
- v) The name and position held by each person signing the authorization must be typed or printed below the signature. All scanned pages of the E-Bid, shall be signed and stamped by the authorized person before scanning.
- vi) Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.
- vii) The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid and to contract execution if the Bidder is awarded the contract.

2.4. Submission of E-bids

2.4.1 Sealing and Marking of Bids

- i) N/A
The complete Bids must be submitted online on e-Procurement System (EPADS) website i.e., <https://punjab.eprocure.gov.pk>

2.4.2 Deadline for Submission of E-bids

- i) E-Bids must be submitted on the e-Procurement System (EPADS) no later than the time and date specified in the Bid Data Sheet. Physical Bids received through courier services or delivered by the bidder, shall not be accepted.
- ii) The Procuring Agency may, at its discretion and as per rule 29 of PPR-14, extend this deadline for the submission of Bids by amending the Bidding documents in accordance with ITB Clause 2.2.2 & 2.2.3 in which case all rights and obligations of

the Procuring Agency and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

iii) E-Bids must be submitted on the e-Procurement System (EPADS) no later than the date and time specified in the **BDS**.

2.4.3. Late E-Bids

i) E-Bids will not be accepted on the e-Procurement System (EPADS), after closing time. However, if any E-bid is submitted on the system after closing time due to some technical glitch in the e-Procurement System (EPADS), in that case bid shall be declared late and rejected.

ii) The Procuring Agency shall not consider for evaluation any Bid that is submitted after the deadline for submission of E-Bids.

iii) Any Bid received by the Procuring Agency after the deadline for submission of E-Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.

2.4.4. Modification and Withdrawal of E-bids

i) No E-bid may be modified after the deadline for submission of E-bids.

ii) No E-bid may be withdrawn in the interval between the deadline for submission of E-bids and the expiration of the period of Bid validity specified by the Bidder on the Bid Form. Withdrawal of a E-bid during this interval may result in the Bidder's forfeiture of its Bid security (along with other remedies available under PPR-14), pursuant to the ITB Clause 2.3.8 (vii).

iii) A Bidder may withdraw its Bid after it has been submitted, provided that written notice of the withdrawal of the Bid, is received by the Procuring Agency prior to the deadline for submission of Bids.

iv) Revised bid may be submitted after the withdrawal of the original bid before the deadline for submission of Bids.

2.5. Opening and Evaluation of E-Bids

2.5.1. Opening of E-bids by the Procuring Agency

i) The Procuring Agency will open all e-Bids, in public, in the presence of Bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the Bid proceedings at the place, on the date and at the time, specified in the **BDS**. The Bidders' representatives present shall sign a register/attendance sheet as proof of their attendance.

- ii) E-Bids shall be opened on the e-Procurement System (EPADS) one at a time, in case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each E-Bid, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Procurement Evaluation Committee.
- iii) In case of Single Stage Two Envelope Procedure, the Procuring Agency will open on the e-Procurement System (EPADS) the Technical Proposals in public at the address, date and time specified in the **BDS** in the presence of Bidders` designated representatives who choose to attend and other parties with a legitimate interest in the Bid proceedings. The Financial Proposals will remain unopened on the e-Procurement System (EPADS) until the specified time of their opening.
- iv) Technical e-bids shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder; (b) the presence of a Bid Security, if required; and (c) Any other details as the Procuring Agency may consider appropriate.
- v) Bidders are advised to send in a representative with the knowledge of the content of the e-Bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Bidder's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the Bidder's e-Bid.
- vi) No e-Bid will be rejected at the time of Bid opening except for late Bids (if any, submitted on system due to technical glitch), pursuant to **2.4.3 (i)**.
- vii) The Procuring Agency shall prepare minutes of the Bid opening. The record of the Bid opening shall include, as a minimum: the name of the Bidder and whether or not there is a late bid, the Bid price if applicable.
- viii) The Bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a Bidder's signature on the record shall not invalidate the contents and affect the record.

- ix) Minutes of the Financial Bid Opening shall be recorded and uploaded by the procuring agency on its website or shared to all bidders through on the e-Procurement System (EPADS).

[if Procuring Agency opts for single stage one envelope procedure as per rule 38(1) of PPR-14, clause (vi) to (xiii) should be formulated accordingly by the procuring agency.]

**2.5.2.
Confidentiality**

- i) Information relating to the examination, clarification, evaluation and comparison of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report in accordance with the requirements of rule 37 of PPR-14.
- ii) Any effort by a Bidder to influence the Procuring Agency processing of E-bids or award decisions may result in the rejection of its E-bid.
- iii) Notwithstanding **ITB Clause 2.2.2** from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Procuring Agency on any matter related to the Bidding process, it should do so in writing on e-Procurement System (EPADS).

**2.5.3. Clarification
of E-bids**

- i) As per rule 33(2) of PPR-14, to assist in the examination, evaluation and comparison of e-Bids and post-qualification of the Bidders, the Procuring Agency may, at its discretion, ask any Bidder for a clarification of its e-Bid including breakdown of prices to determine its reasonability. Any clarification submitted by a Bidder that is not in response to a request by the Procuring Agency shall not be considered.
- ii) The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. In case of Single Stage Two Envelope Procedure, no change in the prices or substance of the Bid shall be sought, offered, or permitted. Whereas in case of Single Stage One Envelope Procedure, only the correction of arithmetic errors discovered by the Procuring Agency in the evaluation of Bids should be sought in accordance with ITB Clause 2.5.6.
- iii) The alteration or modification in The e-Bid which in any way affect the following parameters will be considered as a change in the substance of a bid:
 - a) Evaluation & qualification criteria;
 - b) Required scope of work or specifications;
 - c) All securities requirements;

- d) Tax requirements;
 - e) Terms and conditions of bidding documents.
 - f) Change in the ranking of the Bidder
- iv) From the time of e-Bid opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bid it should do so on the e-Procurement System (EPADS) in electronic forms that provide record of the content of communication.

2.5.4. Preliminary Examination

- i) The Procuring Agency will examine the E-Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order.
- ii) Arithmetical errors will be rectified on the following basis: -
 - a. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its Bid may be rejected, and its Bid security may be forfeited.
 - b. If there is a discrepancy between words and figures, the amount in words will prevail.
- iii) Prior to the detailed evaluation, the Procuring Agency will determine the responsiveness of each Bid to the Bidding documents, pursuant to ITB Clause 2.5.5. For purposes of these Clauses, a responsive Bid is one which conforms to all the terms and conditions of the Bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, **such as** those concerning **Bid Security** (ITB Clause 2.3.8), **Applicable Law** (GCC Clause 30), **Taxes and Duties** (GCC Clause 32) & mandatory Registrations/ Renewals will be deemed to be a material deviation. The Procuring Agency's determination of a Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.
- iv) If a Bid is not responsive, it will be rejected by the Procuring Agency and may not subsequently be made responsive by the Bidder by correction of the non-conformity.
- v) Prior to the detailed evaluation of Bids, the Procuring Agency will determine whether each Bid:

- a) Meets the eligibility criteria defined in **ITB 2.1.3** and **ITB 2.1.4**;
- b) Has been prepared as per the format and contents defined by the Procuring Agency in the Bidding Documents;
- c) Has been properly signed;
- d) Is accompanied by the required securities; and
- e) Is responsive to the requirements of the Bidding Documents.

The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

2.5.5. Examination of Terms and Conditions; Technical Evaluation

- i) The Procuring Agency shall examine the Bid to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.
- ii) The Procuring Agency shall evaluate the technical aspects of the Bid submitted to confirm that all requirements specified in **Section III-Technical Specifications, Section VII – Schedule of Requirements, and Evaluation Criteria as provided in BDS**, have been met without material deviation or reservation.
- iii) If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that the Bid is not responsive in accordance, it shall reject the Bid.

2.5.6. Correction of Errors

- i) Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -
 - a) If there is a discrepancy between unit prices and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;
 - b) If there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and
 - c) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.
 - d) Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

- ii) The amount stated in the Bid will, be adjusted by the Procuring Agency in accordance with the above procedure for the correction of errors. The concurrence of the Bidder shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bid Securing Declaration may be executed in accordance with **ITB 2.3.8**.

2.5.7. Conversion to Single Currency

- i) As per rule 32(2) of PPR-14, to facilitate evaluation and comparison, the Procuring Agency will convert all Bid prices expressed in the amounts in various currencies as follows (if applicable):

For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day, in case of holiday in State Bank of Pakistan on the day of opening financial bids, then previous working day's ex-change rates will prevail.

2.5.8. Post-Qualification & Evaluation of Bids

- i) In the absence of prequalification, the Procuring Agency will determine to its satisfaction whether the Bidder is qualified to perform the contract satisfactorily, in accordance with the evaluation criteria listed in BDS & pursuant to ITB Clause 2.1.3.
- ii) The determination will take into account the Bidder's financial, technical, and production/ supplying capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 2.3.6, as well as such other information required for eligibility/qualification expressed in Bid Data Sheet as the Procuring Agency deems necessary and appropriate.
- iii) The Procuring Agency will **technically evaluate** and compare the Bids which have been determined to be responsive, pursuant to ITB Clause 2.5.5, as per Technical Specifications required.
- iv) The **financial evaluation** of a Bid will be on the basis of form of Price Schedules/ Financial Bid Form 8.10 to be decided by the Procuring Agency which must include clear cut instruction regarding item wise or lot wise evaluation inclusive of prevailing taxes, duties, fees etc.

2.5.9. Contacting the Procuring Agency

- i) Subject to ITB Clause 2.5.3, no Bidder shall contact the Procuring Agency on any matter relating to its e-Bid, from the time of the Bid opening to the time the evaluation report is made public i.e., **10 days before the contract is awarded**. If the Bidder wishes to bring additional information or has grievance to the notice of the Procuring Agency, it should do so on the e-Procurement System (EPADS).
- ii) Any effort by a Bidder to influence the Procuring Agency during Bid evaluation, or Bid comparison may result in the rejection of the Bidder's Bid.

2.5.10. Grievance Redressal

- i) As per Rule-67 of PPR-14, Procuring Agency shall constitute a Grievance Redressed Committee (GRC) comprising of odd number of persons with proper powers and authorization to address the complaints. The GRC shall not have any of the members of the Procurement Evaluation Committee. The Committee may preferably have one subject specialist depending upon the nature of the procurement in addition to one person with legal background as per their availability to the Procuring Agency.
- ii) Any Bidder feeling aggrieved can file its complaint to the procuring agency, against the eligibility parameters or any other terms and conditions prescribed in the Bidding documents found contrary to provision of Rule 33, and the same shall be addressed by the Procuring Agency well before the proposal submission deadline.
- iii) Any Bidder feeling aggrieved by any act of the Procuring Agency after the submission of his e-Bid may lodge a complaint to the procuring agency, concerning his grievances **not later than ten (10) days after the announcement of the Final evaluation reports**. In case of single stage - two envelope bidding procedure any bidder feeling aggrieved from technical evaluation may file a grievance **within five (05) days of announcement of the technical evaluation report**. After completion of the technical evaluation process, the procuring agency shall immediately upload the technical evaluation report on the website of PPRA and Procuring Agency for obtaining / receiving grievance petitions from the prospective bidders (if any).
- iv) In case, the complaint/grievance is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report. Provided that the complainant may raise the objection on any part of the

final evaluation report in case where single stage one envelop bidding procedure is adopted.

- v) The GRC shall investigate and decide upon the complaint within **fifteen (15) days** of the receipt of the complaint. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.

2.6. Award of Contract

2.6.1. Notification of Award

- i) Prior to the expiration of the period of Bid validity, the Procuring Agency will notify the successful Bidder in writing by registered letter or through e-Procurement System (EPADS) that its e-Bid has been accepted.
- ii) The notification of award will constitute the formation of the Contract.
- iii) Upon the successful Bidder's furnishing of the Performance Guarantee pursuant to ITB Clause 2.6.2 (i), the Procuring Agency will promptly notify each unsuccessful Bidder and will discharge its Bid security, pursuant to ITB Clause 2.3.8 (v).

2.6.2. Performance Guarantee

- i) **Within Twenty-Five (25) days of the issuance of notification of award / Letter of Intent (LOI)** from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in accordance with the Conditions of Contract, in the Performance Guarantee Form provided in the Bidding documents, or in another form acceptable to the Procuring Agency.
- ii) Failure of the successful Bidder to comply with the requirement of ITB Clause (i) above or ITB Clause 2.6.3 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid security along with other remedies available under PPR-14. After that, the Procuring Agency may decide to may cancel the LOI and award the contract to the next lowest evaluated Bidder, keeping in view the Bid validity time, or call for new E-bids keeping in view the concept of value for money as defined under rule-2(ae) read with Principles of Procurement as enunciated in rule-4 of PPR-14.

2.6.3. Signing of Contract/ Issuance of Purchase Order

- i) At the same time as the Procuring Agency notifies the successful Bidder that its E-bid has been accepted, the Procuring Agency will send the Bidder the Contract Form provided in the Bidding documents, incorporating all

agreements between the parties or will issue the purchase order *[as the case may be]*.

- ii) Under rule-63 of PPR-14, where the Procuring Agency requires formal signing of contract, **within Twenty-Five (25) days of issuance of the notification of Contract award/Letter of Intent (LOI)**, the successful Bidder shall sign and mention date of the contract and return it to the Procuring Agency.
- iii) Where no such formal signing is required by the procuring agency, the procuring agency shall issue purchase order after the receipt of required performance guarantee, as per rule 55 of PPR-14.

2.6.4. Award Criteria

- i) Subject to ITB Clause 2.6.2, under rule-55 of PPR-14, the Procuring Agency will award the contract to the successful Bidder whose E-bid has been determined to be responsive and has been determined to be the lowest evaluated E-bid, provided that the Bidder has been determined to be qualified to perform the contract satisfactorily.

2.6.5. Procuring Agency's Right to Vary Quantities at Time of Award

- i) The Procuring Agency reserves the right at the time of contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions, on the analogy of rule-59 (c)(iv) of PPR-14 (not more than 15%).

2.6.6. Procuring Agency's Right to Accept or Reject All E-bids

- i) As per rule 35 of PPR-14, the Procuring Agency reserves the right to accept or reject all E-bids or proposals (and to annul the E-bidding process) at any time prior to the acceptance of any E-bid or proposal, without thereby incurring any liability towards the Bidders.
- ii) The Bidders shall be promptly informed about the rejection of the E-bids, if any
- iii) The Procuring Agency shall upon request communicate to any Bidder, the grounds for its rejection of all E-bids or proposals, but shall not be required to justify those grounds.

2.6.7. Re-Bidding

- i) If the Procuring Agency rejects all the E-bids under rule 35, it may proceed with the process of fresh Bidding but before doing that it shall assess the reasons for rejection and may, if necessary, revise specifications, evaluation criteria or any other condition for Bidders.

2.6.8. Corrupt or Fraudulent Practices

- i) The Procuring Agency requires that Bidders, Service Providers, and Contractors observe the highest standard of ethics during the procurement and execution of contracts.

“Corrupt practices” in respect of procurement process, shall be as given in S-2 (d) of PPRA, Act, 2009, which is as follows:

“(d) “corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official, bidder or Contractor in the procurement process or in Contract execution to the detriment of the procuring agency; or misrepresentation of facts in order to influence a procurement process or the execution of a Contract, collusive practices among bidders (prior to or after E-bid submission) designed to establish bid prices at artificial, noncompetitive levels and to deprive the procuring agency of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty; it may include any of the following:

- i. coercive practice by impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;*
- ii. collusive practice by arrangement between two or more parties to the procurement process or Contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;*
- iii. offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;*
- iv. any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;*
- v. obstructive practice by harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a Contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts*

intended to materially impede the exercise of inspection and audit process.”

ii) Blacklisting & Debarment:

Blacklisted Consultants and those found involved in “Corrupt Practices” are not allowed to participate in bidding.

Substantial Requirements & Procedure for Blacklisting & Debarment:

As per S-17A of PPRA, Act, 2009:

“17A. Blacklisting. – (1) *A procuring agency may, for a specified period and in the prescribed manner, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor indulges in corrupt practice or any other prescribed practice.*

(2) *The Managing Director may, in the prescribed manner, debar a bidder or Contractor from participating in any public procurement process of all or some of the procuring agencies for a specified period.*

(3) *Any person, aggrieved from a decision of a procuring agency, may within prescribed period prefer a representation before the Managing Director.*

(4) *A procuring agency or any other person, aggrieved from a decision of the Managing Director, may within prescribed period prefer a representation before the Chairperson whose decision on such representation shall be final.]*

As per rule 21 of PPR-14:

21. Blacklisting. – (1) *A procuring agency may, for a specified period, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor has:*

(a) acted in a manner detrimental to the public interest or good practices;

(b) consistently failed to perform his obligation under the Contract;

(c) not performed the Contract up to the mark; or

(d) indulged in any corrupt practice.

(2) *If a procuring agency debars a bidder or Contractor under sub-rule (1), the procuring agency:*

(a) shall forward the decision to the Authority for publication on the website of the Authority; and

(b) may request the Authority to debar the bidder or Contractor for procurement of all procuring agencies.

(3) The Managing Director may debar a bidder or Contractor of any procuring agency from participating in any public procurement process of all or some of the procuring agencies for such period as the Managing Director may determine.

*(4) Any person aggrieved by a declaration made under rule 20 or a decision under sub-rule (1) of this rule may, within **thirty (30) days** from the date of the publication of the information on the website of the Authority, file a representation before the Managing Director and the Managing Director may pass such order on the representation as he may deem fit.*

*(5) Any person or procuring agency aggrieved by an order under sub-rule (3) or (4) may, within **thirty (30) days** of the order, file a representation before the Chairperson and the Chairperson may pass such order on the representation as he may deem appropriate.*

(6) The mechanism or process for barring a bidder or Contractor from participating in procurement process of a procuring agency, procuring agencies and a representation under this rule is specified in the Schedule appended to these rules.

As per Schedule appended with PPR-14:

SCHEDULE

see sub-rule (6) of rule 21

BLACKLISTING MECHANISM OR PROCESS

1. *The procuring agency may, on information received from any resource, issue show cause notice to a bidder or Contractor.*
2. *The show cause notice shall contain:*
 - (a) precise allegation, against the bidder or Contractor;*
 - (b) the maximum period for which the procuring agency proposes to debar the bidder or Contractor from participating in any public procurement of the procuring agency; and*
 - (c) the statement, if needed, about the intention of the procuring agency to make a request to the Authority for debarring the bidder or Contractor from participating in public procurements of all the procuring agencies.*
3. *The procuring agency shall give minimum of **seven (07) days** to the bidder or Contractor for submission of written reply of the show cause notice.*
4. *In case, the bidder or Contractor fails to submit written reply within the requisite time, the procuring agency may issue*

notice for personal hearing to the bidder or Contractor/ authorize representative of the bidder or Contractor and the procuring agency shall decide the matter on the basis of available record and personal hearing, if available.

5. *In case the bidder or Contractor submits written reply of the show cause notice, the procuring agency may decide to file the matter or direct issuance of a notice to the bidder or Contractor for personal hearing.*
6. *The procuring agency shall give minimum of **seven (07) days** to the bidder or Contractor for appearance before the specified officer of the procuring agency for personal hearing.*
7. *The procuring agency shall decide the matter on the basis of the available record and personal hearing of the bidder or Contractor, if available.*
8. *The procuring agency shall decide the matter within **fifteen (15) days** from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing.*
9. *The procuring agency shall communicate to the bidder or Contractor the order of debaring the bidder or Contractor from participating in any public procurement with a statement that the bidder or Contractor may, within **thirty (30) days**, prefer a representation against the order before the Managing Director of the Authority.*
10. *The procuring agency shall, as soon as possible, communicate the order of blacklisting to the Authority with the request to upload the information on its website.*
11. *If the procuring agency wants the Authority to debar the bidder or Contractor from participating in any public procurement of all procuring agencies, the procuring agency shall specify reasons for such dispensation.*
12. *The Authority shall immediately publish the information and decision of blacklisting on its website.*
13. *In case of request of a procuring agency under para 11 or representation of any aggrieved person under rule 21, the Managing Director shall issue a notice for personal hearing to the parties and call for record of proceedings of blacklisting. The parties may file written statements and documents in support of their contentions.*
14. *In case of representation of any aggrieved person or procuring agency under rule 21, the Chairperson shall issue a notice for personal hearing to the parties and may call for the record of*

the proceedings. The parties may file written statements and documents in support of their contentions.

15. *In every order of blacklisting under rule 21, the procuring agency shall record reasons of blacklisting and also reasons for short, long or medium period of blacklisting.*
16. *The Authority shall upload all the decisions under rule 21, available with it, on its website. But the name of a bidder or Contractor shall immediately be removed from the list of blacklisted persons on expiry of period of blacklisting or order of the competent authority to that effect, whichever is earlier.*
17. *An effort shall be made for electronic communication of all the notices and other documents pursuant to this mechanism or process.”*

iii) Furthermore, Bidders must keep themselves aware of the provision stated in clause 5.4 and clause 24.1 of the General Conditions of Contract.

2.6.9. Quantity and volume of the goods to be considered in mind
[Framework Contract Modality]

- i) While quoting the rate in a framework contract, the Bidder must consider the following facts:
 - a. Certain volume and quantity of the goods as prescribed in Bid Data Sheet.
 - b. The Bidder have to maintain the rates of the goods for the whole financial year.
 - c. The Bidder should quote the rate as per Price Schedule/ Financial Bid form. In case of non-observance of prescribed format, Financial Bid may be rejected.

Section-III. Technical Specifications

3.1. Technical Specifications

Any brand names / model mentioned in the technical specifications of goods / services being solicited through this bidding document, are for reference only and the bidders may quote the any brand / model with equivalent specifications.

Lot-1:

AI-ENABLED DATA CENTER INFRASTRUCTURE, NETWORKING, SECURITY, IT FACILITY SETUP INCLUDING HARDWARE, SOFTWARE, POWER, COOLING, AND ALLIED SERVICES ON TURNKEY BASIS

Functional Requirements for the Turnkey Solution (as per the compliance sheet at Form 8.8)	Compliance (Yes / No)
The bidder shall provide a complete turnkey technology solution including supply, installation, integration, testing, commissioning, and support of all hardware, software, networking, electrical, and auxiliary components required for successful operation of the project.	
The bidder shall ensure that all listed equipment including servers, storage, virtualization platform, network infrastructure, security systems, media wall, wireless infrastructure, power systems, cooling systems, and passive networking components are fully integrated and operational.	
All required accessories, mounting hardware, licenses, transceivers, patch cords, fiber modules, racks, PDUs, power cables, grounding accessories, conduits, connectors, labeling, and passive components required for complete deployment shall be included in the bidder's scope whether explicitly mentioned or not.	
The proposed solution shall support high availability, redundancy, scalability, centralized management, and secure operation suitable for enterprise and mission-critical environments.	
Bidder shall ensure end-to-end compatibility and interoperability among all supplied hardware and software components.	
Bidder shall conduct complete site survey before bid submission and at the time of deployment and shall be responsible for verification of quantities, measurements, power requirements, cooling requirements, and implementation feasibility.	
The bidder shall perform complete installation including rack mounting, structured cabling, power connectivity, network configuration, software installation, firmware upgrades, policy configuration, and integration with existing infrastructure where required.	
All supplied systems shall be configured according to OEM best practices and cybersecurity standards.	
The bidder shall provide complete documentation including architecture diagrams, rack layouts, IP addressing schemes, configuration backups, SOPs, licenses, warranties, datasheets, and operational manuals.	

Bidder shall provide operational and administrative training to designated client staff for management and troubleshooting of the deployed solution.	
The complete solution shall undergo Site Acceptance Testing (SAT), performance testing, failover testing, and operational verification prior to final acceptance by the Purchaser.	
All equipment supplied under the project shall be brand new, genuine, unused, and sourced through authorized distribution channels. Refurbished or grey-market products shall not be accepted.	
All equipment must be covered under OEM warranty with local support arrangements and escalation procedures clearly defined.	
Any additional hardware, software, licensing, accessories, or ancillary components required for successful implementation and operation of the complete turnkey solution shall be supplied by the bidder without any additional cost to the client.	
The bidder shall be fully responsible for successful delivery, integration, commissioning, and support of the complete solution.	
Item no. 2 (Compute, Network and Storage virtualization for GPU Servers): All licenses, subscriptions, and support contracts shall be registered in the customer's name and remain the property of the customer throughout the contract period.	

Technical Specifications

Any brand names / model mentioned in the technical specifications of goods / services being solicited through this bidding document, are for reference only and the bidders may quote the any brand / model with equivalent specifications.

GPU Servers (Qty. 03)		
Item# 1		
Sr. #	Item	Description (Minimum Specifications)
1	Model	Rack Server, 2U or higher, Dual-Socket, suitable for AI/GPU and HPC workloads.
2	Processor	2 x Intel Xeon 6 Processor (P-Core Series, Granite Rapids architecture) or higher, ≥ 64 Cores / 128 Threads, 2.4 GHz Base Clock (or higher), cache 336MB
3	System Memory	Type: DDR5 ECC RDIMM
		Speed: 6400 MT/s
		Capacity per DIMM: 64 GB
		Total DIMMs: 16 x 64 GB
		Total Capacity: 1 TB (1024 GB)
		DIMM Slots Available: 32 (expandable)
4	Data NVMe Drives (Read Intensive)	15 TB *6 NVMe Read Intensive hot-pluggable drives
5	Cache / Mixed-Use NVMe Drives	1.6TB*2 NVMe Mixed Use (Read/Write intensive)
6	Boot / OS Drive	Dedicated Out-of-Band Hardware Boot Subsystem with 2 x 480GB (or higher) M.2 NVMe SSDs configured in hardware-level RAID 1, independent of the primary data storage controller.
7	Storage Controller	Pass-through supported
8	Network Adapter	2* Dual port 10/25GbE, included SFP28
		Must 5m fiber optic cables per adapter requirement.
		Must support advanced networking features, including:
		VLAN tagging VxLAN
9	GPU	Quantity: 2 x NVIDIA H200 NVL
		Architecture: NVIDIA Hopper
		HBM Memory: 141 GB HBM3e per GPU (≥ 140 GB required)
		Memory Bandwidth: ≥ 4.8 TB/s per GPU
		Form Factor: Double Wide, Full Height (DWFL)
		TDP: 450W (PCIe) / 600W H200 Nvidia AI Enterprise license
10	Power Supply	The power subsystem must provide a minimum aggregate power capacity capable of supporting dual 450W+ GPUs and dual high-core processors under maximum synthetic load, utilizing hot-pluggable 80 Plus Titanium certified power supplies configured for N+1 or N+N grid redundancy.
		Wattage: 3200W per PSU

		Input Voltage: 200–240 VAC / HLAC
11	Fan Module	Redundant fan modules in full configuration, allowing one-fan failures
12	Accessories	All accessories must be included such as power cords, Rack rails, cable management Arm etc.
<p>Note: 3 Years NBD Warranty from OEM, 3 Years H200 Nvidia AI Enterprise license Support and Subscription</p> <p>The quoted OEM must be registered with SECP in Pakistan</p>		

Software Technical Specifications (Compute, Network and Storage virtualization) for GPU Servers Item# 2 Qty. 1 solution		
Sr. #	Feature / Requirement	Minimum Specification
COMPUTE VIRTUALISATION		
1.1	Hypervisor type	Type-1 hardware-assisted (Intel VT-x / AMD-V) bare-metal hypervisor. Must support x86-64 servers.
1.2	VM live migration	Online, zero-downtime live migration of running VMs between cluster nodes without service interruption.
1.3	High availability (HA)	Automated detection of node failure and VM restart on surviving nodes. HA must function across minimum 3-node cluster.
1.4	Resource scheduling	Dynamic CPU and memory scheduling / allocation across cluster nodes. Support for resource limits and reservations.
1.5	VM templates & rapid provisioning	Pre-built VM templates enabling rapid deployment. Support for full clones and linked clones.
1.6	Container & VM co-location	The platform must support VMs containerized workload on the same cluster infrastructure, manageable either natively or via an integrated control plane or API management ecosystem.
1.7	Unified management UI & API	Single web-based management console for full cluster, VM, container, storage, and network lifecycle. REST API required.
1.8	GPU	The hypervisor must support both GPU passthrough, and vGPU modes or GPU partitioning technologies such as MIG where supported by the GPU model and NVIDIA licensing.
1.9	GPU Compatibility	It must be compatible with the latest NVIDIA GPU drivers.
2.0	Backup, restore & snapshot	Integrated VM backup, restore, and point-in-time snapshot capability. Incremental backup preferred. The solution shall support snapshot, scheduled backup jobs, configurable backup retention policies, and both full and incremental backup mechanisms. Backup restoration capabilities shall be available for individual files, virtual machines, and full system recovery. The solution shall support a Recovery Point Objective (RPO) of not more than one (1) hour. The proposed solution must provide centralized backup management and include appropriate licensing and support

		<p>covering all processor sockets/Servers of the required server infrastructure.</p> <p>The backup solution may be offered by the same OEM as the proposed virtualization or server platform, or by a different OEM, provided that it is fully compatible with the proposed infrastructure and supports all required backup, recovery, management, licensing, and support functionalities without limitations.</p>
NETWORK VIRTUALISATION		
2.1	SDN / overlay networking	Software-defined networking with VXLAN and/or equivalent overlay networking technologies.
2.2	Virtual routers & L2/L3 switching	Distributed logical routers and virtual switches supporting L2/L3 forwarding, NAT, and DHCP for VMs.
2.3	VLAN tagging (802.1Q)	VLAN-aware virtual switches with per-VM VLAN assignment. 802.1Q trunk port support.
2.4	Micro segmentation / distributed firewall	The platform should support VM-level east-west traffic filtering and segmentation policies with L3/L4 firewalling capabilities
2.5	NIC bonding / redundancy	Active-backup or LACP (802.3ad) NIC bonding for uplink redundancy and bandwidth aggregation.
STORAGE VIRTUALISATION		
3.1	Hyperconverged Distributed Storage Architecture	Scale-out distributed storage pooling local NVMe drives across all cluster nodes. No external SAN required.

Software Technical Specifications (Compute, Network and Storage virtualization) for GPU Servers Item# 2 Qty. 1 solution		
3.2	High-performance block storage	Distributed block storage for VM virtual disks and database workloads. Must provide high-performance, low-latency block device access to VMs. Suitable for I/O-intensive workloads including relational databases (OLTP), transaction logs, and data warehousing. Block volumes must be thin-provisioned and independently protected by the platform storage policy.
3.5	Data protection — replication & erasure coding	The platform must support configurable data protection modes including 2-copy replication, 3-copy replication, and erasure coding (RAID-5 and RAID-6 equivalent). All modes must be selectable per storage pool without reinstallation. Bidder shall declare the proposed protection mode for the initial deployment and confirm the resultant usable storage capacity.

3.6	Thin provisioning	Thin-provisioned VM disks and persistent volumes. Storage consumed only as data is written.
3.7	Data-at-rest encryption	Data-at-rest encryption for all stored VM disks and volumes. FIPS 140-2 compliance or equivalent encryption standards

The proposed platform (Compute, Network, and Storage Virtualization) including enterprise-supported Hyperconverged Infrastructure (HCI) and/or enterprise-supported virtualization platforms integrated with software-defined storage (SDS) must fully support the proposed hardware infrastructure, including GPU servers, compute nodes, storage resources, networking components, and associated infrastructure. The proposed solution must be compatible with the required NVIDIA GPU drivers, CUDA libraries, GPU passthrough, and GPU virtualization/partitioning technologies including vGPU ~~and~~/or NVIDIA MIG, where supported by the proposed GPU model, virtualization platform, operating system, and applicable NVIDIA licensing model. Compatibility with NVIDIA AI Enterprise (NVAIE) application-layer software components, including NIM microservices, NeMo, TensorRT, Triton Inference Server, and CUDA-based frameworks, should be supported where technically applicable to the proposed hypervisor and deployment mode.

The proposed solution must be enterprise-grade, commercially supported (community-only editions shall not be accepted), SLA-backed with OEM/platform provider support via official customer support portal, where the customer must be able to open support tickets directly with the OEM/platform provider. The support shall include unlimited support tickets, regular updates/upgrades, security patches, and bug fixes, with a maximum OEM/platform provider response time Four (4) business hours during business days. The bidder/partner must additionally provide 24x7x365 local technical support for the entire support period.

The software (Compute, Network, and Storage Virtualization) licensing model may be either perpetual or subscription-based; however, the proposed solution must include complete software entitlement, OEM support, updates, upgrades, patches, firmware updates, and technical assistance for a minimum period of three (3) years. All required licenses/subscriptions necessary for the complete operation of the proposed infrastructure and all hardware resources must be included by the bidder.

The bidder/partner shall be solely responsible for complete end-to-end deployment, integration, interoperability, timely application of security patches, software upgrades, firmware updates, and OEM support for the entire support period of three (3) years.

The proposed solution must support workload, virtual machine, and data migration from VMware and other well-known enterprise virtualization/HCI platforms with minimal downtime and without requiring major application-level modifications.

**Software Technical Specifications (Compute, Network and Storage virtualization) for
GPU Servers Item# 2
Qty. 1 solution**

All licenses, subscriptions, and support contracts shall be registered in the customer's name and remain the property of the customer throughout the contract period.

Backup Hardware NAS Item #3 Qty. 01	
1.	Processor: Minimum 2 x Xeon Silver multicore 64-Bit Processor
2.	Memory: Minimum Installed 128GB Memory or higher- expandable to 256GB
3.	storage 8*12TB with HDD SAS/NLSAS 7200 RPM enterprise grade SATA SSD 4* 3.84 enterprise grade or better
4.	System Drives: Separate SSD drives for OS, SATA SSD 480GB*2 or more
5.	Connectivity: 2 x 10/25GbE SFP28 ports, 2 x RJ45 1GbE, 2 x RJ45 10GbE Ports, USB Ports: 2 x USB 3.2
6.	RAID: Raid support: Basic, JBOD, RAID 0, 1, 5, 6, 10
7.	Power: Redundant Power Supply (1400W or higher)
8.	Rail Kit: Rail Kit must be included, Rack mountable
9	<p>Required Features</p> <p>Snapshot Replication Immutable Snapshots Write Once (WORM) Shared Folders</p> <p>Protocol SMB/CIFS File Services must be licensed Protocol NFS File Services must be licensed Protocol iSCSI LUNs and Targets must be licensed</p>
10	Warranty: Standard 3-Years Onsite for parts and labor

Sr. No.	NGFW Item Description (Minimum Specifications) Item #4	Quantity
1	<ul style="list-style-type: none"> • Minimum 8 x 10/100/1000BASE-T RJ45 ports, and a minimum of 12 x 10G SFP+ or higher multi-rate optical slots. The solution must include 4 x 10G SR optical transceivers and 8 x 1G SX or LX optical transceivers from day one. • Firewall throughput 55 Gbps or more • NGFW Threat Protection through put (APP+IPS+AV+URL) 18 Gbps or more • Concurrent Session 25 million or more. New sessions per second (CPS) 600,000 or more • IPsec throughput 5Gbps or more • 1 x 240 GB SSD drive for logs storage or more • Must include 3 years UTM Bundle license • Dual Power Supply • Security Features should be offered with IPS, Advanced Malware Protection, Application Control, URL, DNS and support for 3 years • The proposed product shall support static routing and policy-based routing • The proposed product shall support Open Shortest Path First (OSPF) and Border Gateway Protocol (BGP) for both IPv4 and IPv6. • The proposed product must support active-passive (failover HA), active-active deployment. (load balancing HA) and Clustering. • The proposed product shall support various QoS (quality of service) techniques, 	02

Note	<p>including Traffic policing, Traffic shaping and Queuing</p> <ul style="list-style-type: none"> • The proposed product should support both Route based and policy-based site to site IPsec VPNs. • SSL Users with a minimum of 50 licenses • The proposed product shall provide Secure sockets layer (SSL) content scanning and inspection abilities that allow organizations to apply antivirus scanning, application control, and IPS inspection to encrypted traffic • The proposed product's IPS engine shall offer Signature based and Anomaly based detection • The proposed product shall support various logging facilities local memory, local storage and external syslog servers • The proposed NGFW/WAF solution must support Virtual Contexts / Virtual Firewall Domains for logical segmentation • The platform must natively support or include licensing for Web Application Firewall (WAF) capabilities (including SQL injection and Cross-Site Scripting protection) and basic Layer 4 / Layer 7 Network Load Balancing (NLB/SLB) functionality without requiring dedicated standalone hardware for basic implementations. 	
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	<ul style="list-style-type: none"> • SFPs must of the same OEM Brand as quoted NGFW 	
<ul style="list-style-type: none"> • Note: 3 Years NBD Standard OEM Warranty, 3 years support and subscription for all required NGFW mentioned feature licenses 		

Sr. No.	Core Switch Item Description (Minimum Specifications) Item #5	Quantity
1.	<ul style="list-style-type: none"> • 32 x 10GE SFP+ Ports (Loaded with MM (300m) SFP+ Transceiver module). • 2 x 40G QSFP+ Port and 4 x 100G QSFP28 Port (Loaded with compatible MM Transceiver module). • Overall Switching Capacity 1800 Gbps • Forwarding rate 1000 Mpps • 128K MAC address table • 4K VLAN, Static Routing, RIP, OSPF, BGP, VXLAN, BGP-EVPN, DHCP, IGMP Snooping, SSH, Port Security, Web GUI for configuration, SNMP • The switch must be equipped with dual (1+1) hot-swappable, N+1 fully redundant power supply modules. The cooling subsystem must feature N+1 hot-swappable redundant fan modules supporting software-monitored variable speeds and directional airflow (Front-to-Back or Back-to-Front) to match data center hot/cold aisle containment layouts. • Redundant fans • Support IPv4 ARP entries >=64k • Support Jumbo Frame 	2
Note		

	<ul style="list-style-type: none"> • SFPs & DAC Cables must have the same OEM Brand as quoted Switch. 	
Note: 3 Years NBD Standard OEM Warranty.		

Sr. No.	Aggregate Switch 48 Port Item Description (Minimum Specifications) Item #6	Quantity
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<p>1.</p>	<p>Should have 48 x 1G Ethernet RJ-45 Ports Should have a minimum of 4 x 10G SFP+ or higher dedicated uplink ports. The switch must support modular or native expansion options to scale uplink bandwidth if required. (Loaded with 4 x 10G MM (300m) SFP+ Transceiver module)</p> <p>Note: SFPs must be of the same OEM Brand that of quoted Switch Should have 96 Gbps or more port switching capacity Forwarding rate should be more than 160 Mpps Should have 300 Gbps or more box switching capacity Should be Enterprise Series Switch with Layer-3 features such as RIP, OSPF, OSPFv3, IS-ISv6, BGP, ACL Must support comprehensive enterprise Layer 3 routing features, including Static Routing, RIPv1/v2, OSPFv2 (IPv4), OSPFv3 (IPv6), BGP4, BGP4+, Policy-Based Routing (PBR), and robust hardware-based Access Control Lists (ACLs) for both IPv4 and IPv6 traffic. Should support Stacking of local and remote devices. The chassis must have dual, hot-swappable, independent, N+1 redundant power supply modules. Should have 4K or more VLANs support and 32K MAC address entries IPv4 routing entries should be 3000 or higher IPv4 ARP entries entries should be 6000 or higher IPv6 routing entries should be 6000 or higher Should support security features like IP Source Guard, AAA, RADIUS, 802.1x and Centralized MAC Based Authentication, DHCP Snooping etc. Support Jumbo Frame</p>	<p>2</p>
<p>Note: 3 Years NBD Standard OEM Warranty.</p>		

Sr. No.	Internet Switch 48 Port Item Description (Minimum Specifications) Item # 7	Quantity
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<p>1.</p>	<p>Should have 48 x 1G Ethernet RJ-45 Ports Should have a minimum of 4 x 10G SFP+ or higher dedicated uplink ports. The switch must support modular or native expansion options to scale uplink bandwidth if required. required (Loaded with 4 x 10G MM (300m) SFP+ Transceiver module)</p> <p>Note: SFPs must be of the same OEM Brand that of quoted Switch</p> <p>Should have 96 Gbps or more port switching capacity Forwarding rate should be more than 160 Mpps Should have 300 Gbps or more box switching capacity Must support comprehensive enterprise Layer 3 routing features, including Static Routing, RIPv1/v2, OSPFv2 (IPv4), OSPFv3 (IPv6), BGP4, BGP4+, Policy-Based Routing (PBR), and robust hardware-based Access Control Lists (ACLs) for both IPv4 and IPv6 traffic. Should support Stacking of local and remote devices through standard Ethernet interfaces</p>	<p>2</p>
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	<p>Must have redundant power supply Should have 4K or more VLANs support and 32K MAC address entries The hardware must support an enterprise-grade routing table capable of handling a minimum of 8,000 (8K) IPv4 L3 routing entries and a minimum of 4,000 (4K) IPv6 L3 routing entries natively in hardware. Should support security features like IP Source Guard, AAA, RADIUS, 802.1x and Centralized MAC Based Authentication, DHCP Snooping etc. Support Jumbo Frame 3- Years NBD OEM Equipment warranty</p>	
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Note: 3 Years NBD Standard OEM Warranty.

Sr. No.	<p style="text-align: center;">Management Switch Item Description (Minimum Specifications) Item # 8</p>	Quantity
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<p>1.</p>	<p>Should have 48 x 1G Ethernet RJ-45 Port Should have 4 x 10G SFP Ports (Loaded with 2 x 10G MM (300m) SFP+ Transceiver module) Note: SFPs must be of same OEM brand that of quoted switch Should have 96 Gbps or higher port switching capacity Forwarding rate should be 130 Mpps or higher Should have 130 Gbps or higher box switching capacity Must provide dedicated hardware management interfaces, including an Out-of-Band (OOB) Management Ethernet port and a local serial console interface (RJ-45, Micro-USB, or Type-C) to allow complete configuration access independent of the production data switching fabric. Must support an advanced Enterprise Layer 3 software suite, including hardware-based Static IPv4/IPv6 routing, RIPv1/v2, RIPv6, OSPFv2, OSPFv3, Policy-Based Routing (PBR), and Equal-Cost Multi-Path (ECMP) routing for resilient path redundancy. Should have 4K or more VLANs support and 16K MAC address entries Port Mirroring, RSPAN or equivalent must be supported Should support SNMP v1, 2 & 3 Support 1000 IPv4 routing entries or more Support 2000 IPv4 ARP entries or more Support Jumbo Frame</p>	<p>2</p>
<p>Note: 3 Years NBD Standard OEM Warranty.</p>		

Sr. No.	PoE Switch Item Description (Minimum Specifications) Item # 9	Quantity
1.	<p>Should have 4 x 10G SFP+ Ports (Loaded with 2 x 10G MM (300m) SFP+ Transceiver module)</p> <p>Should feature a minimum of 24 x 10/100/1000Base-T RJ-45 ports supporting full IEEE 802.3at PoE+ capabilities natively across all ports, with a minimum of 4 x 10G SFP+ dedicated high-speed uplink ports.</p> <p>Note: SFPs must be of the same OEM Brand that of quoted</p> <p>Switch Should have 96 Gbps or higher port switching capacity Forwarding rate should be 90 Mpps or higher</p> <p>Must include an Out-of-Band (OOB) dedicated Management Ethernet port and a physical local serial console port (RJ-45, Micro-USB, or Type-C) to allow complete command-line interface (CLI) administration independent of production data traffic.</p> <p>The quoted switch must have 400W of PoE power budget or higher</p> <p>Should be an Enterprise Grade series Manageable Switch with Layer-3 features such as RIP, RIPng, OSPF & OSPFv3</p> <p>Must support industry-standard Spanning Tree variants (STP, RSTP, MSTP) along with open, vendor-neutral carrier-grade ring resiliency protocols such as ITU-T G.8032 ERPS (Ethernet Ring Protection Switching) to ensure sub-50ms loop-free ring recovery.</p> <p>The switch must support hardware-based virtual stacking/clustering of a minimum of 8 units or more into a single logical entity, utilizing a unified management control plane and single IP address interface</p> <p>Should have 4K or more VLANs support and 16K MAC address entries Port Mirroring, RSPAN or equivalent must be supported</p> <p>Should support SNMP v1, 2 & 3</p> <p>Should support security features like IP Source Guard, AAA, RADIUS, 802.1x and MAC Based Authentication, DHCP Snooping etc.</p> <p>Support 1000 IPv4 routing entries or more</p> <p>Support 2000 IPv4 ARP entries or more</p> <p>Support Jumbo Frame</p>	2
Note: 3 Years NBD Standard OEM Warranty.		

Sr. No	WLAN Controller Item#10	Quantity
1	<p>The Hardware Wireless LAN Controller (WLC) must provide a minimum of 8 x 10/100/1000Base-T RJ-45 local ports for management/local connectivity and a minimum of 2 x 10G SFP+ high-speed uplink ports to connect directly into the data center core fabric, supporting a minimum system throughput of 20 Gbps or higher. Redundant Power supply and 5 x Access Points License</p>	02
Note: 3 Years NBD Standard OEM Warranty.		

Sr. No	Access points Item# 11	Quantity
1	Enterprise-grade indoor Access Point supporting the latest IEEE 802.11be (Wi-Fi 7) standard across three concurrent operational radios (2.4GHz, 5GHz, and 6GHz) with a minimum total of 6 spatial streams. The AP must feature high-speed uplink network interfaces (such as multi-gigabit 2.5GE,	05
Note: 3 Years NBD Standard OEM Warranty		

	<p>5GE, or 10GE ports) providing sufficient backhaul bandwidth to eliminate wired bottlenecks, with full power supplied via standard IEEE 802.3at (PoE+) or 802.3bt (PoE++).</p> <p>The Wireless architecture must support advanced hardware-enforced security mechanisms, including WPA3-Enterprise, Rogue AP detection, containment, and stateful integrated Layer 2 to Layer 4 wireless firewall capabilities."</p> <p>The platform must support seamless, zero-packet-loss roaming protocols based on IEEE 802.11r (Fast BSS Transition), 802.11k (Radio Resource Management), and 802.11v (Network Assisted Roaming).</p> <p>The system must include a centralized RF management system that automatically optimizes channel allocation, channel width (up to 320MHz for Wi-Fi 7), and transmit power dynamically across all deployed APs to minimize co-channel interference.</p>	
Note: 3 Years NBD Standard OEM Warranty		

Note: Items No. 9 5 to 11 must be of the same OEM brand.

IT RACK CABINET

Item# 12

Sr. #	Item Description	Minimum Specifications (Generic)	Qty	Unit
01	IT Rack Cabinet	Rack Standard: 19-inch standard rack enclosure Rack Height: 42U Rack Width Options: <ul style="list-style-type: none"> • 600 mm width for server and IT equipment applications • 800 mm width for network and high-density cabling applications Rack Depth: Minimum 1400 mm Design: Sealed cabinet design suitable for aisle containment environments Dust Protection: IP5X certified dust-proof design Cooling & Ventilation: <ul style="list-style-type: none"> • Emergency ventilation mechanism for hot air dissipation Load Capacity: <ul style="list-style-type: none"> • Static load capacity up to 1,300 KG Accessories & Cable Management: <ul style="list-style-type: none"> • Complete cable management solution • Blanking panels • Adjustable shelves and mounting accessories 	3	Nos
	Containment	Full Containment With the front & rear containment, cooling is optimized and contained within Preventing loss of required cooling for the IT equipment to the open space		
	Flexibility	All-in-one architecture with 2- 6 racks, 25 KW cooling capacity with higher scalability in terms of power, cooling, and supervision.		

CABLE MANAGEMENT DUCTS

Sr. #	Item Description	Minimum Specifications (Generic)	Qty	Unit
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IT RACK CABINET

Item# 12

02	Enclosed Cable Duct (300mm Width)	Type: Enclosed horizontal cable duct Width: 300 mm Application: For use with 300mm width cooling / accessory units Material: Cold-rolled steel, powder coated Cover: Removable top/front cover for cable access Mounting: Compatible with standard 19" rack or wall-mounted cable tray Purpose: Neat and protected routing of power/data cables Warranty: ≥ 1 year	2	Nos
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03	Enclosed Cable Duct (600mm Width)	Type: Enclosed horizontal cable duct Width: 600 mm Application: For use with 600mm width IT rack and PMC (Power Management Cabinet) Material: Cold-rolled steel, powder coated Cover: Removable top/front cover for cable access Mounting: Compatible with standard 19" rack or wall-mounted cable tray Purpose: Neat and protected routing of power/data cables from rack top Warranty: ≥ 1 year	5	Nos
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UNINTERRUPTIBLE POWER SUPPLY (UPS)

Sr. #	Item Description	Minimum Specifications (Generic)	Qty	Unit
04	Online Double Conversion Rackmount UPS System (20 kVA, Long Backup, N+1 Parallel)	Topology: Online Double Conversion (IEC 62040-3 Class 1 VFI-SS-111) Capacity: 20 kVA / 20 kW (ITA2 class or equivalent) Configuration: Parallel (N+1) redundancy capable Form Factor: 600mm width rack/cabinet mounted Battery: Long backup (extended runtime via external battery cabinets) Supported IT Load: ≥ 20 kW Access Control: Intelligent electronic lock Fan Control: Integrated fan controller Monitoring: Remote monitoring unit / SNMP card (RDU or equivalent) Output Voltage: 220/230/240 VAC single phase (or 3-phase as per site requirement) Input Voltage Range: 100–280 VAC Frequency: 50/60 Hz Output Power Factor 1. IEC/EN 62040-1, IEC/EN 62040-2, VFI-SS-111	1	Nos

06	External Battery Cabinet for UPS (2U)	Form Factor: 2U rack-mountable external battery cabinet Compatibility: Must be compatible with the UPS unit supplied (Item 04) Battery Type: VRLA / AGM sealed lead-acid or Lithium-Ion (as applicable) Purpose: Extended backup runtime for UPS Mounting: 19" rack-mountable with included hardware Connector: Matched to UPS battery input connector Monitoring: Integrated battery status monitoring via UPS 30min Backup time at 70% load	8	Nos
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PRECISION AIR CONDITIONING (PAC) — INDOOR & OUTDOOR UNITS

Sr. #	Item Description	Minimum Specifications (Generic)	Qty	Unit
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IT RACK CABINET

Item# 12

07	Precision Cooling Indoor Unit (CRV) 25 kW Air Cooled	Type: Precision Air Conditioning — Computer Room / Row-based Cooling Unit Cooling Capacity: ≥ 25 kW (at rated conditions) 300mm Refrigerant: R410A or equivalent eco-friendly refrigerant Frequency: 50/60 Hz compatible Humidification: Wet film humidifier (Heating: Electric heater (ceramic type or equivalent) Condensate: Integrated condensate pump Inverter scroll - capacity modulation Aisle containment design 25kW DX solution, standalone or N+1 redundant Flexible in design Green Refrigerant	2	Nos
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POWER DISTRIBUTION UNIT (PDU)

Sr. #	Item Description	Minimum Specifications (Generic)	Qty	Unit
08	Rack-Mount Switched PDU 32A	Type: Metered/Switched Rack PDU (individual outlet switching) Input: 32A, single phase (IEC 309 or equivalent inlet) Output Outlets: Minimum 18 x IEC C13 + 6 x IEC C19 (or equivalent mix) Power Cable: Included, ≥ 5m length Metering: Per-outlet or per-unit power metering (Voltage, Current, Power, kWh) Switching: Individual outlet on/off/reboot via network interface Management: Network (RJ45 Ethernet) with web GUI, SNMP v1/v2c/v3 Form Factor: 0U vertical or 1U horizontal rack-mount Display: Local LCD display for load/current reading Warranty: ≥ 1 years	6	Nos

MONITORING, SECURITY & ACCESSORIES

Sr. #	Item Description	Minimum Specifications (Generic)	Qty	Unit
09	4G Modem (SMS Notification)	Type: Industrial 4G LTE modem for alarm/SMS notification Connectivity: 4G LTE (fallback to 3G/2G) SIM: Standard SIM card slot (nano/micro/full size) SMS Capability: Outbound SMS alert notification to configured numbers Integration: Compatible with UPS/cooling SNMP or alarm output Interface: RS232 / USB or RJ45 Ethernet (as applicable) Power: DC powered (12V or 5V via USB) Operating Temp: -20°C to +60°C Certifications: CE / FCC	1	Nos

		Warranty: ≥ 1 year		
10	IP Security Camera (2MP, PoE, IR)	Resolution: 2.0 Megapixel (1920 x 1080 Full HD) Sensor: 1/2.8" CMOS image sensor Day/Night: IR filter (ICR) for true day/night switching Infrared Range: ≤ 30m IR illumination Detection: Motion detection (configurable zones) Weatherproofing: IP67 rated (dust and water ingress protection)	1	Nos

IT RACK CABINET				
Item# 12				
		Local Storage: MicroSD / SD card slot, supports up to 128 GB Power: DC 12V or IEEE 802.3af PoE Compression: H.264 / H.265 Lens: Fixed or varifocal, ≥ 2.8mm Network: 10/100 Mbps RJ45 Ethernet Protocols: RTSP, ONVIF, HTTP Certifications: CE, FCC, RoHS Warranty: ≥ 1 years		
	IT RACK CABINET			
	2-100 ATP MCCB's (35 KA) Panel outgoing (10KVA UPS) 2- 60 ATP MCCB,s (25KA) Panel outgoing (LIGHTING + POWER DB)			
	Supply and Installation of Power Cable From Transformer - to ATS panel 150mm 4 core with trench work and Required Cable Tray	RM	4	
	Supply and Installation of Power Cable From Genset - to ATS panel 150mm 4 core	RM	40	
	Supply and Installation of Power Cable From ATS panel to LV panel 150mm 4 core	RM	10	
	Supply and Installation of Power Cable From LV Panel to Data Center POD 25mm 4 core	RM	20	
	Supply and Installation LV Panel to AC DB 4 core 70mm 4 core on First Floor for comfort cooling if Required as per actual + 35mm 1 core Erath Cable on Cable Tray	RM	50	
	Supply and Installation 50mm 1core Earth Cable for LV+ATS on Cable Tray	RM	30	
	Supply and Installation 10mm 1core Earth Cable for SRG on cable Tray	RM	30	
	Supply and Installation Power Cable for 10KVA UPS DB from LV Panel 25mm 4core+Earth Cable 10mm 1 core on Cable Tray	RM	50	
	Cable Tray & Ladders			
	Supply and installation of Power Cable + Cooling Tray with Accessories as per actual will be Charge	RFT	200	
	Paint Work			

ICI or Equ. Fire Retardant paint work on the walls in DC and Power Room	SQF	1200
ESD Tiles		
Fire Resistant Anti-static ESD tiles flooring with complete installation for Data center, Power Room Decora or equivalent as per actual	SqF	400
Accessories		
Supply & installation of Emergency Light c/w battery pack and accessories.	Nos	6
Supply and installation of Ultra violet anti rodent mechanism (Repellent)	Nos	2
Supply and install "Exit sign" at Data Centre, Power Room etc.	Nos	1
Precision Cooling Piping		
Precision Cooling Copper Piping , outdoor will be place outside the Data Center with Outdoor civil work, Power and control cable, UPVC, PPRC, Water Tank with accessories	RFT	100
Hand held CO'2 Type fire extinguishers 5kg class - C.	Nos	2
Fire Suppression system for Data Center + Power Room as per Design with Panels	job	1
<p>Note: The measurements and quantities mentioned are based on the initial survey and should be considered minimum requirements. The vendor shall conduct a detailed site survey and provide all necessary components, materials, and associated works required for the proposed solution, whether specifically mentioned or not, to ensure a complete and fully functional deployment</p>		

	GENERAL TERMS & CONDITIONS FOR ALL ITEMS IT RACK Cabinet		
1	All equipment must be brand new, unused, and supplied by single OEM. Equipment covered under sr. # 1 to 8 shall be supplied from the same OEM/brand to ensure compatibility, unified support, and single-vendor accountability. sr # 9 and 10 may be supplied by a different OEM; however, they must be fully compatible, interoperable, and officially supported with the proposed solution UPS Must be of CAT A / CAT B as per Custom Ruling No refurbished or grey-market products will be accepted.		
2	Equipment must comply with applicable international standards (IEC, CE, RoHS, etc.) as indicated per item.		
3	Bidder must provide OEM datasheet / product brochure for each item offered.		
4	Warranty periods stated are minimum bidder to clearly specify actual warranty and support terms.		
5	Onsite installation and commissioning must be included unless explicitly stated otherwise.		
6	Bidder must confirm compatibility between all supplied components.		

7	All items must be supplied with relevant manuals, software (if applicable), and installation documentation.		
8	Bidder is required to provide complete electrification for the data center.		

Passive Networking Item# 13 Qty. 1 Job (APA)			
Bidder is requested to conduct survey or may refer building layout attached Annex-B, to finalize the quantities to meet the project functional requirements.			

High End Laptops Item# 14 Qty.15		
Sr.	Item Description	Minimum Specifications
1	Processor	Intel® Core™ Ultra 7 or higher
2	Chipset	Intel Integrated
3	Graphics	Intel Integrated
4	Memory	16 GB
5	Storage	512 GB
6	Keyboard/Touchpad	Backlit keyboard with Multitouch Touchpad
7	Display	14-16" touchscreen with min FHD resolution
8	Wireless	Wi-Fi with Bluetooth 5
9	Audio	Built-in speakers and Microphone
10	I/O Ports	Audio/ Microphone Jack, USB-A, USB-C, thunderbolt
11	Camera	Built-in Camera
12	Battery	Integrated battery with adapter
13	Mouse	Original Wireless Optical Mouse
14	Carrying Case	Original carrying case
15	Warranty	One (01) Year Parts and Labor warranty for all components on site.

**Laptops
Item# 15
Qty.20**

Sr.	Item Description	Minimum Specifications
1	Processor	Intel® Core™ Ultra 7
2	Chipset	Intel Integrated
3	Graphics	Intel Integrated
4	Memory	16 GB
5	Storage	512 GB
6	Keyboard/Touchpad	Backlit keyboard with Multitouch Touchpad
7	Display	14-16" with minimum WUXGA (1920x 1200) resolution
8	Wireless	Wi-Fi with Bluetooth
9	Audio	Built-in speakers and Microphone
10	I/O Ports	Audio/ Microphone Jack, USB-A, USB-C, thunderbolt, Ethernet (RJ-45) Port and HDMI port.
11	Camera	Built-in Camera
12	Battery	Integrated battery with adapter
13	Mouse	Original Wireless Optical Mouse
14	Carrying Case	Original carrying case
15	Warranty	One (01) Year Parts and Labor warranty for all components on site.

**Photo Copier Machine
Item# 16
Qty. 01**

Sr.	Item	Description
1	Speed	35 ppm/cpm (A4) or higher
2	Document Feeder	Duplex, ADF
3	Touch Screen	7 Inch
4	Duplex Printing	Auto, Built-in
5	Printing Resolution	1200 × 1200 DPI
6	Scanning Resolution	600 × 600 DPI or higher
7	Input Capacity	1000 Sheets
8	Zoom Capacity	25% - 400% or higher
9	Multiple Copy	999 or higher
10	Paper Support Type	A4, Legal, Letter, A3
11	Duty Cycle	150K
12	Memory	2GB or higher
13	Storage	128GB
14	Connectivity	USB, Gigabit Ethernet, Wi-Fi
15	Warranty	1 Year Onsite Warranty of Unit and batteries along with support.

CCTV Solution**Item# 17****Qty. 1 Job****(minimum specs and quantities are given below for an efficient solution it is recommend that bidder may refer building layout attached Annex-B & conduct a site survey for actual BOQ)****Cameras | (Qty. 64 minimum)**

Sr.	Item	Description
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1	Resolution	4MP 1080p @25 fps or higher
2	Image sensor	CMOS – Progressive Scan
3	Lens	2.8 mm or better
4	Image Enhancements	3DNR, WDR
5	Video Compression	H.265/H.265+ /H.264+
6	Bit Rate Control	VBR; CBR with at least 2 streams
7	Illumination Distance	30 m
8	Protocols	TCP/IP, DHCP, HTTP, RTSP, ONVIF
9	Power	POE
10	Protection	IP66 or higher
11	Features	White Balance/Night Vision, Built-In Microphone
12	Warranty	Standard one-year parts and labor warranty for all components on site.

NVR – 32 Ch | (Qty. 03 minimum)

Sr.	Item	Description
1	Channels	32 Channel IP Video Input
2	Video Compression	Supports H.265, H.265+
3	Decoding Capability	1080p (30 fps) or equivalent
4	Bandwidth	320 Mbps or higher
5	Storage Capacity	2 x 10TB or higher Surveillance grade hard disks for at least 1 month backup
6	Network Protocols	TCP/IP, IPv4, HTTP, ONVIF
7	Interface	RJ45 10/100/1000 ports, 2x USB, HDMI
8	Accessories	Power Supply, cables, mouse and all allied accessories
9	Key Features	Trigger events (Alarm/Email), Motion Detection, Video loss and tempering protection
10	Software	Free monitoring/management/client software for windows, free iOS and Android app
11	Installation	Complete onsite installation as per industry standard with compatible IT Rack
12	Warranty	Standard two-years parts and labor warranty for all components on site.

IP Phone Sets**Item# 18****Qty. 15**

Sr.	Item	Description
1	Phone	Full duplex speaker phone.
2	Lines	Two lines or Higher.
3	Network Interface	2x 10/100/1000 Base-T Ethernet. (One for PC Connectivity)
4	Power	Phone should receive power through POE.
5	Display	At least 2-line display with white backlight or better
6	Protocols	SIP features should be available.
7	Audio / Voice	Support of G.711, G.722 & G.729.
8	Provisioning	Auto provisioning via TFTP/Web.
9	Accessories	Phone Stand, Ethernet Cable etc.
10	Warranty	Standard one-year parts and labor warranty for all components on site.

Item# 19**COB LED / SMD Video Wall Solution****Qty: 01****Size: 20 H x 20 W**

Sr.	Item Description	Minimum Specifications
1	Size	20 Feet H x 20 Feet W
2	Pixel Pitch	1.5 to 1.56 mm COB OR Higher OR Equivalent
3	Pixel Resolution (WxH)	208dots(W)*104dots(H)
4	Module Size	320mm(W)*160mm(H)
5	Density	422753dots/m ²
6	Surface Flatness	Yes Less or Equal 0.15 mm
7	White Balance (Nits)	600(1000 optional) cd/m ²
8	Color Temperature	3000k-10000k (Adjustable)
9	View Angle	visual angle can be up to above 160°
10	Brightness & Color Calibration	Yes
11	Contrast Ratio	10000:1 OR higher
12	Color Bit Depth	16 Bit/14 bits
13	Brightness	600
14	Brightness Uniformity	>97%
15	Frame Frequency	50HZ or 60HZ or Both
16	Power Supply	AC100~240OV (50/60Hz)
17	Maximum power	~21W/pcs
18	Refresh Rate	Minimum 3840HZ

19	Life Span	≥100,000 hrs
20	Operating Mode	24x7
21	Operating Humidity	Operating 10-80% (no condensation)
22	IP Rating	Dust proof
23	Certification	CE/RoHS/FCC/IEC
24	Controller	Supported controllers with minimum 2 inputs will be provided.
25	Software:	Web-based or desktop application with secure remote management.
		Customizable layouts, presets, and seamless mapping for L-shaped display.
		Multi-user operation with role-based access.
		Real-time monitoring of display health and system status.
26	Note	Complete turnkey solution includes Installation, cabling (Including power, network, HDMI), hardware cabinets (branded will be preferred) etc.
		1. Quoted brand/OEM must have registered office in Pakistan. 2. Quoted brand must have at least 3 RMA centers in major cities of Pakistan 3. Quoted brand must have past experience of similar nature of work in public/private office in Punjab. 4. Item 17 and Item 19 should be of same brand.

Sound System

Sr.	Item Description	Minimum Specifications
1	Amp Channel	5.1ch real surround sound

2	Power	600w or higher
3	Amp Type	Digital Amplifier, S-Master
4	Subwoofer	Wired
5	Interface	Analogue audio input (stereo mini), USB , Optical-audio input
6	Wireless	Bluetooth 5 or higher
7	Features	Night mode, Voice Mode, Auto Sound, Cinema, Music
8	Accessories	Remote Control, HDMI Cable, Power Cord

UPS - 10KVA

Sr.	Item Description	Minimum Specifications
1	Power Capacity	10kVA
2	Power Factor	1
3	Technology	Online Double Conversion Technology
4	Certifications	ROHS / Energy Star / CE / EAC / IEC etc.
5	Backup Time	Standard 10 minimum or higher at 70% load
6	Battery	Maintenance free batteries
7	Frequency	50/60 Hz
8	Features	LCD Display Screen, Surge Protection
9	Warranty	One (01) Year Parts and Labor warranty for all components on site.

IOS Mobile Devices**Item# 20****Qty. 08**

Sr.	Item	Description
1	PTA Approved	PTA Approved Mobile Phone
2	Sim	Dual Sim GSM/LTE (Nano-SIM and eSIM)
3	Display Size	6.9 inches or higher
4	Dust/water Resistant	IP68 Compliance or higher
5	Resolution	1320x2868 pixels or higher
6	Display	LTPO Super Retina XDR OLED, 120Hz, HDR10 or higher
7	OS Platform	iOS 26 or higher
8	CPU	Hexa-core or higher
9	Chipset	Apple 19 Pro
10	Memory	512GB or higher
11	RAM	12 GB or higher
12	Camera	48MP Main, 48MP Ultra Wide, 48MP Telephoto
13	Features	Face ID, accelerometer, gyro, proximity, compass, barometer, Glonass, Galileo, GPS, NFC, Wireless Charging
14	Connectivity	Wi-Fi 7, Triband, Bluetooth 6
15	Battery	Non-Removable Li ion 4800 mAh Battery or Higher
16	Accessories	Original Power Charger, Cable, and all other standard accessories

Biometric Attendance System (Facial and Fingerprint)**Item# 21****Qty. 04**

Sr.	Item	Description
1	Display	2.5-inch screen or higher
2	Face Capacity	2000 or higher
3	Fingerprint Capacity	3000 or higher
4	Card Capacity	2000 or higher
5	Logs Capacity	50,000 or higher
6	Communication	USB, LAN and Wi-Fi
7	Battery	Built-In battery of 2000mAh or 2-3 hours backup
8	Accessories	Power Supply, Mounting Kit and other standard features along with SDK/API kit
9	Installation	Complete onsite installation including security box, cabling etc.
10	Warranty	One (01) Years Parts and Labor warranty for all components on site

**200 KVA Genset, Canopy, fiber shed and all allied accessories Item# 22
Qty. 01**

Sr.	Item Description	Units	Qty
1	Supply, installation, testing, and commissioning of 200 KVA Prime Rating diesel generator set (3-Phase, 400/415V, 50Hz) Alternator insulation Grade H, complete with weatherproof acoustic canopy noise level ≤75 dB at 7m and fiber shed. The scope shall also include 400 Ampere ATS Panel, protection system, battery set with external charger also, Turbocharged, fuel tank, exhaust system, , civil works (if required), and all allied accessories required for complete operational functionality and integration with existing electrical infrastructure	Nos	1
2	Power cable 4x185mm + 1x50mm E copper for Genset to ATS Panel and ATS to LV panel and control cabling. Approximate power cable length , Bidder will conduct the survey to finalize the qty	Job	1
3	Earthing system (Bore type Earthing with all respect, depth above 60 feet, earth resistance of less than 5 Ohms, bare copper wire size 1x50mm 300x300x300 mm Earth Pit Chamber, insulated conductor 1x50mm (pits to Genset) 02 for Genset N+ Body 01 for IT rack 01 for LV panels +ATS	Nos	4
4	LV Panel ,Supply, installation & commissioning sheet metal clad totally enclosed free standing, front excess frames fabricated from 14 SWG M.S. sheet steel de rusted phosphate & with electrostatic paint of approved color , and suitable for system voltage 400/230,50Hz, 3 phase & Neutral bus bars of 99.97% electrolytic copper conductor, Earthling link, internal wiring, & outgoing cables glands for incoming & outgoing cables, 1-SURDGE ABSORBER 4 pole 40 KA 1-Phase failure 1-Energy analyzer 3-Phase indicating light 1-400ATP MCCB's (35 KA) Panel incoming 1-200 ATP MCCB's (35 KA) Panel outgoing (AC DB) 1-150 ATP MCCB's (35 KA) Panel outgoing (20KVA UPS)	Nos	1
	2-100 ATP MCCB's (35 KA) Panel outgoing (10KVA UPS) 2- 60 ATP MCCB,s (25KA) Panel outgoing (LIGHTING + POWER DB)		

UPS/Inverter (Tower Model)

Item# 23

Qty. 03

- 10 KVA Capacity:
- Power Factor: 0.9
- Lithium Batteries with Rack & Accessories (Complete Battery Bank)
- Network Monitoring,
- Backup Time: @ 80% Load 2-3 Hours Backup

Supply and Installation 4Ton Capacity Inverter ACs (Cabinet type) Item# 24

Qty. 06

48,000 Btu/Hr; 4 Ton Capacity Heat and Cool (Cabinet type)

Supply and Installation 2Ton Capacity Inverter ACs (Wall mounted) Item# 25

Qty. 12

24000 Btu/Hr, 2 Ton Capacity Heat and Cool (Wall mounted)

AC Copper Pipe, Drainage Pipe, Commissioning and installation Item# 26

Qty. APA

Bidder is requested to conduct survey or may refer building layout attached Annex-B, to finalize the quantities to meet the project functional requirements.

Supply & Installation of SMART LED

Item# 27

Qty. 20

- Screen Size: 65 Inches
- Display Type: LED Smart TV
- Resolution: Ultra HD 4K (3840 × 2160) minimum
- Operating System: Android TV / Google TV or equivalent Smart OS
- RAM: Minimum 2 GB
- Storage: Minimum 16 GB
- Connectivity: Wi-Fi, LAN, Bluetooth
- Ports: Minimum 3 × HDMI, 2 × USB
- Audio Output: Minimum 20W
- Screen Mirroring / Casting Support
- Built-in Speakers
- Wall Mount Kit Included
- Voltage Compatibility: 220–240V AC, 50Hz
- Warranty: Minimum 1 Year Warranty

EDR Solution

Item# 28

Qty. 100

- Real-time endpoint protection (Windows ~~server~~, Linux ~~server~~, ~~macOS support~~)
- Advanced malware detection (signature + behavior-based + AI/ML-based)
- Ransomware protection with rollback capability
- Exploit prevention and memory protection
- Zero-day threat detection
- Full endpoint activity monitoring (process, registry, file, network)
- Device control (USB, external media control)
- Application control / whitelisting & blacklisting
- ~~File integrity monitoring~~
- Client server on premise Architecture
- **The proposed EDR solution shall be deployed entirely on-premises. Direct internet connectivity will be permitted only on a designated management/update VM.**

Section-IV: Bid Data Sheet

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

A. Introduction		
BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
1.	2.1.1	<p>Name of Procuring Agency: PUNJAB INFORMATION TECHNOLOGY BOARD</p> <p>The subject of procurement is: PROCUREMENT OF AI-ENABLED DATA CENTER INFRASTRUCTURE, NETWORKING, SECURITY, IT FACILITY SETUP INCLUDING HARDWARE, SOFTWARE, POWER, COOLING, AND ALLIED SERVICES ON TURNKEY BASIS – ITOPS-23</p> <p>Period for delivery, installation and commissioning of goods: Within twenty four (24) Weeks after issuance of Notification of Award i.e., Letter of Intent (LOI)</p>
2.	2.1.2	<p>Financial year for the operations of the Procuring Agency: 2025-26</p> <p>Name of Project/ Grant (Development or Non-Development): Development</p> <p>Name of financing institution: Govt. of Punjab</p> <p>Name and identification number of the Contract: N/A</p>
3.	2.1.3 (v)	<p>Maximum number of members in the joint venture, consortium or association shall be: [N/A]. J.V. form 8.2 should be followed. (NOT APPLICABLE)</p>
B. Bidding Documents		
4.	2.2.2	<p>The address for clarification of Bidding Documents is: <u>PRIMARY CONTACT (For Technical Clarifications)</u> Tayyab Mehmood Network Support Officer (Technical Procurement) Email: tayyab.mehmood@pitb.gov.pk 11th Floor, Arfa Software Technology Park, 346-B, Ferozpur Road, Lahore, Pakistan.</p>

		SECONDARY CONTACT (For Commercial Clarifications) Zia UI Haq Program Officer (Procurement) Email: ziaul.haq@pitb.gov.pk 11 th Floor, Arfa Software Technology Park, 346-B, Ferozepur Road, Lahore, Pakistan
5.	2.2.2	Pre-Bid Meeting: DATE & TIME: 08 JUNE, 2026 @ 11:00 AM VENUE: 11th FLOOR, ARFA SOFTWARE TECHNOLOGY PARK (ASTP), 346-B, FEROEZPUR ROAD, LAHORE.
6.	2.3.9	The number of E-Bid for each Lot separately to uploaded on E-PADS is in one original.
C. Bid Price, Currency, Language and Country of Origin		
7.	2.3.1	<i>Language of the Bid: English</i>
8.	2.3.4	The price quoted shall be fixed in PAK RUPEES inclusive of all applicable taxes and duties, on DDP destination basis.
9.	2.1.4 (ii)	Country of origin: <i>All eligible countries to do business in Pakistan by the law of Government of Pakistan.</i>
D. Preparation and Submission of Bids		
10.	2.2.2	The complete Bids must be submitted online on e-Procurement System (EPADS) website i.e., https://punjab.eprocure.gov.pk
11.	2.4.2	The deadline for E-bid submission is: 17 JUNE 01 JULY, 2026 @ 11:00 AM
12.	2.5.1	Time, date/ Month/ Year, and place for E-bid opening. 17 JUNE, 01 JULY, 2026 @ 11:30 AM PUNJAB INFORMATION TECHNOLOGY BOARD (PITB) 11 th FLOOR, ARFA SOFTWARE TECHNOLOGY PARK (ASTP), 346-B, FEROEZPUR ROAD, LAHORE, PAKISTAN PHONE: (+ 92) (42) (99000000), FAX: (+92) (42) (99232123) URL: WWW.PITB.GOV.PK
13.	2.6.2	Amount of Performance Guarantee is: <u>10% OF THE CONTRACT AMOUNT</u>
14.	2.3.8	Bid validity period after opening of the E-Bid is: <u>NINETY (90) DAYS.</u>
15.	2.3.6	The samples (if demanded) of the items provided by the bidders will be evaluated in conjunction with the specification provided in SECTION – III and approved by the evaluation committee of the procuring agency. The awardee will be required to deliver the items as per approved sample.
E. Opening and Evaluation of Bids		
16.	2.5.1	The E-Bid opening shall take place at:

		PUNJAB INFORMATION TECHNOLOGY BOARD (PITB) 11 th FLOOR, ARFA SOFTWARE TECHNOLOGY PARK (ASTP), 346-B, FERAZEPUR ROAD, LAHORE, PAKISTAN PHONE: (+ 92) (42) (99000000), FAX: (+92) (42) (99232123) URL: WWW.PITB.GOV.PK
17.	2.5.7	The currency that shall be used for E-Bid evaluation is: PAK RUPEES
F. Bid Evaluation Criteria		
18.	2.5.8	Criteria to Bid evaluation is presented below:

EVALUATION CRITERIA (TECHNICAL PROPOSAL):

Category	Description	Requirement
<p style="text-align: center;">Legal (Mandatory)</p>	Copy of Registration with Income Tax Authorities (National Tax Number NTN) – Registered for at least for Last 03 years from the date of bid submission;	Required
	Copy of Registration with relevant Sales Tax Authorities	
	Copy of Income Tax & Sales Tax (Operative Status)	
	<p>Affidavit (as per form 8.6) on non-judicial Stamp Paper of Rs.100/- or Official Letter-head:</p> <ul style="list-style-type: none"> (i) The firm is not blacklisted by the procuring agency and PPRA. (ii) The documents/photocopies provided by the firm with its Bid are authentic. (In case of any fake/bogus document found at any stage of the procurement process, the firm shall be black listed as per Rules / Laws.) (iii) The firm certifies the correctness of information. (iv) The firm complies with Section – III “Technical Specifications”, and Section – VII “Schedule of Requirements” of the Bidding Document. (v) The firm complies with all terms & conditions mentioned in the Bidding Documents. (vi) The firm complies that its Bid is valid for 90 days after opening of the E-Bid. (vii) The firm certifies that if awarded the contract, the procuring agency may deduct all the relevant taxes and duties, from its invoice, as applicable. (viii) The firm undertakes that it shall provide the Performance Guarantee and sign the formal contract within Twenty-Five (25) days of the issuance of notification of award/Letter of Intent (LOI). 	
<p style="text-align: center;">Technical (Mandatory)</p>	Original of Bid Security instrument as prescribed in the Bid Security Form.	Required
	<ul style="list-style-type: none"> • The quoted OEM for item no.1 (GPU Servers) must be registered with SECP in Pakistan. • Manufacturer Authorization Letter/ Manufacturer Authorization Form (MAL/MAF) from the Principal / Manufacturer to the Bidder for participating in this particular tender and indicating the subject Bidding Document Number” (a sample manufacturer authorization form is provided as Form 8.3) as per Form 8.3, for <p style="text-align: center;">LOT No.01: Item no. 1, 3 to 12, and 28</p> <ul style="list-style-type: none"> • Compliance sheet for functional requirements must be completed and made part of the Technical Bid. 	

Category	Description	Requirement				
	<ul style="list-style-type: none"> • Authorization from the Principal / Manufacturer for; LOT No.01: Item no.19 (LED/SMD only), Item no.22 • Authorization from the Principal / Manufacturer / Authorized Dealer for; LOT No.01: Item no.14,15,16,17, 19 (UPS only), 23 & 27 <p>In case of the dealer, the following two documents are required:</p> <ol style="list-style-type: none"> 1. Authorization from principal to dealer, and 2. Certificate from the dealer to the Bidder <p>For Item no.14 & 15 the quoted brand must present in the Gartner report (Annexure – A)</p>					
<p style="text-align: center;">Past Experience (Mandatory)</p>	<p>Relevant Experience & Value of Projects (Last 03 Years) Value of projects/assignments either completed or in-process for last 03 years, which are similar in nature (IT Hardware / IT Equipment, Enterprise Hardware Solution, Networking Infrastructure etc.): (Verifiable through relevant purchase orders / contracts)</p> <table border="1" data-bbox="347 1055 1233 1146"> <thead> <tr> <th data-bbox="347 1055 499 1099">Lot No.</th> <th data-bbox="499 1055 1233 1099">Amount in PKR</th> </tr> </thead> <tbody> <tr> <td data-bbox="347 1099 499 1146" style="text-align: center;">01</td> <td data-bbox="499 1099 1233 1146" style="text-align: center;">235 million and above</td> </tr> </tbody> </table>	Lot No.	Amount in PKR	01	235 million and above	Required
Lot No.	Amount in PKR					
01	235 million and above					

NOTE:

- **As outlined in the Standard Bidding Documents under clause 2.5 “Opening and Evaluation of E-Bids”, the bidder must ensure that its bids are complete in all aspects, including mandatory documentation (Legal, Technical, Past Experience, and Financial), as incomplete submissions will not be considered.**
- **During the evaluation process, clarifications based on already submitted documentation will be sought to complete the evaluation. New documentation that changes the substance of the bid will not be accepted.**
- **We strongly encourage you to review your bids carefully and ensure their completeness before submission. Failure to do so may result in technical disqualification.**

G. Award of Contract

2.6.5	Percentage for quantity increase or decrease is: <u>FIFTEEN (15%) PERCENT. However, increase or decrease in quantities beyond 15% will be mutually agreed between the Procuring Agency and the Awardee prior to the Contract.</u>
2.6.2	The Performance Guarantee shall be: <u>10% OF THE CONTRACT AMOUNT</u>
2.6.2	<p>The Performance Security (or guarantee) shall be in the form of: Bank Guarantee or Call Deposit Receipt;</p> <p>Performance Guarantee must have a minimum validity period until the date of expiry of warranty period, support period or termination of services, or fulfillment of all obligations under the contract, whichever is later.</p> <p>The Contractor shall cause the validity period of the performance security to be extended for such period(s) as the contract performance may be extended.</p>

Section-V: General Conditions of Contract

1. Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) "The Contract" means the agreement entered into between the Procuring Agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
- (c) "The Goods" means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring Agency under the Contract.
- (d) "The Services" means those services ancillary and related to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, maintenance & repair and other such obligations of the Supplier covered under the Contract.
- (e) "GCC" means the General Conditions of Contract contained in this section.
- (f) "SCC" means the Special Conditions of Contract.
- (g) "The Procuring Agency" means the organization purchasing the Goods & Services, as named in SCC.
- (h) "The Procuring Agency's country" is the country named in SCC.
- (i) "The Supplier" means the Bidder or firm supplying the Goods and Services under this Contract.
- (j) "The Project Site," where applicable, means the place or places named in SCC.
- (k) "Day" means calendar day.

(l) “e-Bid” means electronic bids (separate financial and technical) to be submitted by bidders on e-Procurement System (EPADS).

2. Application

2.1. These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

3. Country of Origin

[where applicable]

3.1. All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules, as further elaborated in the SCC.

3.2. For purposes of this Clause, “origin” means the place where the Goods were mined, grown, or produced, or from where the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new product is obtained that is substantially different in basic characteristics or in purpose or utility from its components.

3.3. The origin of Goods and Services is distinct from the nationality of the Supplier. In any case, the requirements of rules 10 & 26, PPR-14, shall be followed.

4. Standards

4.1. The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods’ country of origin. Such standards shall be the latest issued by the concerned institution.

5. Use of Contract Documents and Information; Inspection and Audit by the procuring agency.

5.1. The Supplier shall not, without the Procuring Agency’s prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2. The Supplier shall not, without the Procuring Agency’s prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of executing the Contract.

5.3. Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring Agency and shall be returned (all copies) to the Procuring Agency on completion of the

Supplier's performance under the Contract if so required by the Procuring Agency.

5.4. The Supplier shall permit the Procuring Agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the donors, if so required by the donors.

6. Patent Rights

6.1. The Supplier shall indemnify the Procuring Agency against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring Agency's country.

7. Performance Guarantee

7.1. **Within Twenty-Five (25) days of issuance of the notification of Contract award/Letter of Intent (LOI)**, the successful Bidder shall furnish to the Procuring Agency the Performance Guarantee in the amount specified in SCC/Bid Data Sheet & clause 2.6.2 of ITB. Performance Guarantee must have a minimum validity period until the date of expiry of warranty period, support period or termination of services, or fulfillment of all obligations under the contract, whichever is later.

7.2. The proceeds of the Performance Guarantee shall be payable to the Procuring Agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

7.3. As per Rule-56 of PPR-14, the performance guarantee shall be denominated in the currency of the Contract acceptable to the Procuring Agency and shall be in one of the following forms:

- (a) **a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring Agency's country, in the form provided in the Bidding documents or another form acceptable to the Procuring Agency; or**
- (b) **Performance Security/Bank Guarantee or Call Deposit Receipt;**

7.4. The performance guarantee will be discharged by the Procuring Agency and returned to the Supplier not later than **thirty (30) days** following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC. The Contractor shall cause the validity period of the performance security to be extended for such period(s) as the contract performance may be extended.

8. Inspections and Tests

8.1. The Procuring Agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring Agency requires and where they are to be conducted. The Procuring Agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives nominated for these purposes.

8.2. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s) (if so, allowed by the Procuring Agency), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Agency.

8.3. Should any inspected or tested Goods fail to conform to the Specifications, the Procuring Agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring Agency.

8.4. The Procuring Agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring Agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring Agency or its representative prior to the Goods' shipment from the country of origin.

8.5. Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

9. Packing

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

9.2. 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 SCC, and in any subsequent instructions ordered by the Procuring Agency.

10. Delivery and Documents

[in case of Framework Modality the Procuring Agency may amend these condition as per its requirements]

10.1. Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.

10.2. Upon delivery, the Procuring Agency shall give receiving certificate to the supplier with the statement that, "completion certificate along with satisfactory report shall be issued after due inspection as per clause-8 of GCC, which will enable the supplier to put up the bill".

[Further conditions may be incorporated by the Procuring Agency keeping in view the nature of contract, DDP, CIF, C&F, FOR, FOP for example; for a DDP contract the clause may be as follows:].

10.3. For purposes of the Contract, DDP trade term used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of *Incoterms*

10.4. Documents to be submitted by the Supplier are specified in SCC.

11. Insurance

[If required and decided by the Procuring Agency]

11.1. The Goods supplied under the Contract shall be delivered **on DDP Destination Basis** under which risk is transferred to the buyer after having been delivered, hence **Insurance** is sellers' responsibility.

12. Transportation

12.1. The Supplier is required under the Contract to transport the Goods to a specified place of destination within the Procuring Agency's country, including **freight**, insurance, and storage, as shall be specified in the Contract, and related costs shall be included in the Contract Price.

13. Incidental Services

[If required and decided by the Procuring Agency]

13.1. The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) satisfactory performance for specified time/ quantity on-site and/or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;

- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) training of the Procuring Agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

13.2. Prices charged by the Supplier for incidental services shall be included in the Contract Price for the Goods and shall not exceed:

- (i) the prevailing rates charged for other parties by the Supplier for similar services; and
- (ii) original price of goods.

14. Spare Parts

[If required and decided by the Procuring Agency]

14.1. As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- (a) such spare parts as the Procuring Agency may choose to purchase from the Supplier, provided that this choice shall not relieve the Supplier of any warranty obligations under the Contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) advance notification to the Procuring Agency of the pending termination, in sufficient time to permit the Procuring Agency to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the Procuring Agency, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1. The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models selected by the Procuring Agency, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required

by the Procuring Agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

15.2. This warranty shall remain valid **as required in Section – III "Technical Specifications"** after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, or **as required in Section – III "Technical Specifications"** after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

15.3. The Procuring Agency shall promptly notify the Supplier in writing of any claims arising under this warranty.

15.4. Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring Agency.

15.5. If the Supplier, having been notified, fails to rectify the defect(s) within the period specified in SCC, within a reasonable period, the Procuring Agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Agency may have against the Supplier under the Contract/relevant provision of PPR-14 including Blacklisting.

16. Payment

16.1. The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.

16.2. The Supplier's request(s) for payment shall be made to the Procuring Agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.

16.3. As per rule-62 of PPR-14, payments shall be made promptly by the Procuring Agency, but in no case later than **thirty (30) days** after submission of an invoice or claim by the Supplier, provided the work is satisfactory.

16.4. The currency of payment is **PAK RUPEES**.

17. Prices

17.1. Prices charged by the Supplier for Goods delivered and 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 SCC.

18. Change Orders

18.1. The Procuring Agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract, only if required for the successful completion of the job, in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Agency;
- (b) the method of shipment or packing;
- (c) the place of delivery; and/or
- (d) the Services to be provided by the Supplier.

18.2. 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 delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within **thirty (30) days** from the date of the Supplier's receipt of the Procuring Agency's change order. But, in no case, the overall impact of the change should exceed 15% of the contract cost and no provisions of PPR-14 should be violated.

19. Contract Amendments

19.1. Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by the mutual consent through written amendment signed by the parties. No variation in finalized brands/ makes/models shall be allowed except in special conditions where the manufacturer has stopped producing or suspended that model or the latest model of similar series or version has been launched by the manufacturer or non-availability due to international mergers of the manufacturers or similar unavoidable constraints.

20. Assignment

20.1. The Supplier shall not assign the whole of contract to anybody else. However, some parts of contract or its obligations may be assigned to sub-contractors with the prior written approval of the procuring agency.

21. Sub-contracts

21.1. The Supplier shall notify the Procuring Agency in the Bid of all subcontracts to be assigned under this Contract. Such notification, in the original Bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2. Subcontracts must comply with the provisions of GCC Clause 20.

22. Delays in the Supplier's Performance

22.1. Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements-

22.2. If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring Agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring Agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

22.3. Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the imposition of liquidated damages.

23. Liquidated Damages

23.1. Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to GCC Clause 24 along with other remedies available under PPR-14.

24. Termination for Default

24.1. The Procuring Agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency pursuant to GCC Clause 22;
- (b) if the Supplier fails to perform any other obligation(s) under the Contract; or

- (c) if the Supplier, in the judgment of the Procuring Agency has engaged in corrupt practices in competing for or in executing the Contract. For the purpose of this clause, corrupt practices will be defined as per Section-2 (d) of The PPRA Act, 2009.

“Corrupt practices” in respect of procurement process, shall be as given in S-2 (d) of PPRA, Act, 2009:

(d) “corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official, bidder or Contractor in the procurement process or in Contract execution to the detriment of the procuring agency; or misrepresentation of facts in order to influence a procurement process or the execution of a Contract, collusive practices among bidders (prior to or after E-bid submission) designed to establish bid prices at artificial, noncompetitive levels and to deprive the procuring agency of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty; it may include any of the following:

- vi. coercive practice by impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;*
- vii. collusive practice by arrangement between two or more parties to the procurement process or Contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;*
- viii. offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;*
- ix. 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;*
- x. obstructive practice by harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a Contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts*

intended to materially impede the exercise of inspection and audit process

24.2. In the event the Procuring Agency terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

25. Force Majeure

25.1. Notwithstanding the provisions of GCC Clauses 22, 23, and 24, the Supplier shall not be liable for forfeiture of its Performance Guarantee, 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.

25.2. For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes. Both, the Procuring Agency and the Supplier, may agree to exclude certain widespread conditions e.g: epidemics, pandemics, quarantine restrictions etc. from the purview of "Force Majeure".

25.3. If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Agency 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. Any difference of opinion concerning "Force Majeure" may be decided through means given herein below.

26. Termination for Insolvency

26.1. The Procuring Agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Agency.

27. Termination for Convenience

27.1. The Procuring Agency, by written 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 Procuring Agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

27.2. The Goods that are complete and ready for shipment (if applicable) within **thirty (30) days** after the Supplier's receipt of notice of termination shall be accepted by the Procuring Agency on the Contract terms and prices. For the remaining Goods, the Procuring Agency may choose:

- (a) to have any portion completed and delivered at the Contract terms and prices; and/or
- (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.

28. Resolution of Disputes

28.1. After signing the contract or issuance of purchase order, The Procuring Agency 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.

28.2. If, after **thirty (30) days** from the commencement of such informal negotiations, the Procuring Agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed and/or arbitration as per rule 68 of PPR-14 and in accordance with Arbitration Act-1940.

29. Governing Language

29.1. The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

30. Applicable Law

30.1. The Contract shall be interpreted in accordance with the laws of Punjab (Pakistan) unless otherwise specified in SCC.

31. Notices

31.1. Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by any information technology mean for the time being in use and acceptable in ordinary course of business to the other party's address specified in SCC.

31.2. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

32. Taxes and Duties

32.1. Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods & Services to the Procuring Agency. In case of imposition of new taxes/duties or concession thereof after the deadlines for the submission of bids the effect thereof shall be borne or availed by the procuring agency as the case may be.

33. Contract Period

The Contract duration shall be for the period of **three (03) years** from the date of issuance of notification of award, till the delivery, installation & commissioning of all Goods/Services or end of warranty / support period, whichever is later.

Section-VI. Special Conditions of Contract

Special Conditions of Contract

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

1. Definitions (GCC Clause 1)

GCC 1.1 (g)—The Procuring Agency is: **PUNJAB INFORMATION TECHNOLOGY BOARD**

GCC 1.1 (h)—The Procuring Agency's country is: **PAKISTAN**

GCC 1.1 (i)—The Supplier is: **AWARDEE**

2. Country of Origin (GCC Clause 3)

[All countries and territories as indicated in Section IV, BDS, of the Bidding documents]

3. Performance Guarantee (GCC Clause 7)

GCC 7.1—As per rule 56 of PPR-14, the amount of Performance Guarantee, as a percentage of the Contract Price, shall be: **10% OF THE CONTRACT AMOUNT**

GCC 7.4—the Performance Guarantee shall be retained to cover the Supplier's warranty obligations or defect liability period under Clause GCC 15.2

Performance Guarantee must have a minimum validity period until the expiry date of the warranty period, support period or termination of services, or fulfillment of all obligations under the contract, whichever is later.

The Contractor shall extend the validity period of the performance security for such period(s) as the contract performance may be extended.

4. Inspections and Tests (GCC Clause 8)

GCC 8.6—Inspection and tests before shipment of Goods and at final acceptance are as follows:

5. Packing (GCC Clause 9)

GCC 9.2—*[This SCC shall supplement GCC Clause 9.2, exact details of the requisite packages be provided]:*

6. Delivery and Documents

(GCC Clause 10) *[The format of the contract is to be decided by the Procuring Agency, however, DDP provisions are as follows]*

(DDP terms)

GCC 10.3—Upon shipment, the Supplier shall notify the Procuring Agency of the full details of the shipment, including the Contract number, description of Goods, quantity, and usual transport document. The Supplier shall mail the following documents to the Procuring Agency:

- (i) copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;
- (ii) original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;
- (iii) copies of the packing list identifying the contents of each package;
- (iv) Insurance Certificate;
- (v) Manufacturers or Supplier's warranty certificate;
- (vi) Where applicable (Pre-shipment/ port/ Procuring Agency Delivery site, inspection certificate), issued by the Procuring Agency nominated inspection agency, and the Supplier's factory inspection report (Inspection type depends on the nature of procurement and volume of procurement); and
- (vii) Certificate of origin.

7. Insurance

(GCC Clause 11) [where applicable]

GCC 11.1— The Goods supplied under the Contract shall be **delivered duty paid (DDP)** under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers' responsibility. Since the Insurance is sellers' responsibility, they may arrange appropriate coverage.

8. Incidental Services (GCC Clause 13)

GCC 13.1—Incidental services to be provided are:

[Selected services covered under GCC Clause 13 and/or other should be specified with the desired features. The price quoted in the Bid price or agreed with the selected Supplier shall be included in the Contract Price.]

9. Spare Parts

(GCC Clause 14) [where applicable]

GCC 14.1—Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods. Other spare parts and components shall be supplied as promptly as possible, but in any case, within six (06) months of placing the order and opening the letter of credit.

10. Warranty

(GCC Clause 15)

GCC 15.2—In partial modification of the provisions, the warranty period shall be **as required in Section – III “Technical Specifications”** from the date of acceptance/satisfactory installation of the Goods or **as required in Section – III “Technical Specifications”** from the date of shipment (if applicable), whichever occurs earlier. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either:

- (a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 4,

Or

- (b) pay liquidated damages to the Procuring Agency in case of failure to meet the contractual guarantees. The rate of these liquidated damages shall be **(one-half (0.5) percent of the Contract price per week)**.

GCC 15.4 & 15.5—The period for correction of defects in the warranty period is:

- (i) Free, on-site repair / replacement of defective / damaged parts and labor, within **one (01) week** of intimation in Lahore and **two (02) weeks** outside Lahore. (Or as per the warranty required in Section – III “Technical Specifications”)
- (ii) On site Replacement of such defective / damaged Goods will be provided, if repair of such Goods involves a duration exceeding **one (01) week** for Lahore and **two (02) weeks** outside Lahore. (Or as per the warranty required in Section – III “Technical Specifications”)

11. Payment (GCC Clause 16)

GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:

- 100% payment will be made after complete delivery, installation & commissioning, and acceptance of all Goods by the Purchaser, and after confirmation/verification of warranty and support services by the Purchaser.
- Payment to the Contractor against “Passive Networking” will be made as per actual numbers/measurements (as mentioned in Section-III); after the installation, deployment & commissioning of equipment, and approval of inspection report by the Purchaser.
- Payment for the items whereby the unit of measurement is square feet, meters and Rft shall be made as per actual.
- Partial payment against partial delivery, installation & commissioning, and acceptance of Goods under the Contract, may be allowed at the discretion of the Purchaser, as the case may be, but after confirmation/verification of warranty and support services by the Purchaser, from the Principal/OEM, as applicable.

Payment may be made in **Pak. Rupees** in the following manner:

- (i) **Running Bill. or**
- (ii) **Treasury Cheque, or**
- (iii) **Cross Cheque**

13. Prices (GCC Clause 17)

GCC 17.1—Prices shall be fixed and shall not be adjusted.

14. Liquidated Damages (GCC Clause 23)

GCC 23.1—Applicable rate: **one-half (0.5) percent of the Contract Price per week**
 Maximum deduction: **ten (10) percent of the Contract Price**

15. Resolution of Disputes (GCC Clause 28)

GCC 28.2—The dispute resolution mechanism to be applied pursuant to GCC Clause 28.2 shall be as follows:

As per rule-68 of PPR-14, in the case of a dispute between the Procuring Agency and the Supplier, the dispute shall be referred for arbitration in accordance with the Arbitration Act 1940.

16. Governing Language (GCC Clause 29)

GCC 29.1—The Governing Language shall be: **ENGLISH**

17. Applicable Law (GCC Clause 30)

GCC 30.1-The Contract shall be interpreted in accordance with the laws applicable in the jurisdiction of the province of Punjab (Pakistan):

18. Notices (GCC Clause 31)

GCC 31.1—Procuring Agency’s address for notice purposes: **PROCURING AGENCY ADDRESS**

—Supplier’s address for notice purposes: **AWARDEE’s ADDRESS**

Section-VII. Schedule of Requirements

7.1 Schedule of Requirements

The delivery schedule expressed as weeks stipulates a delivery date which is the date at which delivery is required.

In order to determine the correct date of delivery hereafter specified, the Procuring Agency has taken into account the additional time that will be needed for international or national transit to the Project Site or to another common place.

DELIVERY SCHEDULE

Lot	Description	Delivery Schedule
1	AI-Enabled Data Center Infrastructure, Networking, Security, IT Facility Setup Including Hardware, Software, Power, Cooling, and Allied Services on Turnkey Basis	Within twenty four (24) Weeks after issuance of Notification of Award

Section-VIII: Sample Forms

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8.1 Bid Form
(For each Lot separately)

- To be reproduced on the letter head, signed & stamped by the Bidder.
- To be attached with the Technical Bid, in case of Single Stage Two Envelope Procedure.

Date: _____

To: [name and address of Procuring Agency]

Gentlemen and/or Ladies:

Having examined the Bidding documents including Addenda Nos. [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver [description of goods and services] in conformity with the said Bidding documents.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to **10%** percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring Agency.

We agree to a Bid by this Bid for a period of [number] days from the date fixed to Bid opening under Clause 2.3.9 of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed (if required), this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

[In case of single stage one envelope bidding procedure]

The Composition of our Bid is:

- a) Original Bid Form (as per **form 8.1** of Bidding documents) on letter head of the firm, duly signed and stamped.
- b) All the forms relevant to the Technical and Financial Bids (clearly indicated on each form)
- c) Original of Bid Security instrument
- d) All the required documents establishing eligibility of bidders/goods shall be made part of the bid.

- e) Any other document required by the procuring agency not inconsistent with PPR-14.

[In case of single stage two envelope bidding procedure],

The Composition of our bid consists on separate Technical and financial bids, detail of which is as follows:

Technical bid includes the following: -

- a) Original Bid Form (as per **form 8.1** of Bidding documents) on letter head of the firm, duly signed and stamped.
- b) All the forms relevant to the technical bid, to be reproduced on the letter head of the bidder as indicated on each individual form.
- c) Original of Bid Security instrument
- d) Any other document required by the procuring agency not inconsistent with PPR-14.

Financial bid includes the following: -

- a) Price Schedule / Financial Form (as per **form 8.9**) to be reproduced on the letter head of the bidder duly signed and stamped.
- b) Original Bid Security Form along with Copy of Bid Security instrument
- c) *Any other document required by the procuring agency not inconsistent with PPR-14.*

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of service provider	Amount and Currency
_____	_____
_____	_____
_____	_____

(if none, state "none")

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

Dated this _____ day of _____ 20____.

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

8.2 Bidder's JV Members Information Form (If Applicable)
(For each Lot separately)

- To be reproduced and signed & stamped by the lead partner and all JV members on their letter Pad,
- To be attached with Technical Bid in addition to the JV agreement

{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]*

Bidding Document No.: *[insert]*

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 4.4. <input type="checkbox"/> In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Purchaser, in accordance with ITB 4.6.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

8.3. Manufacturer's Authorization Form (If Applicable) ***(For each Lot separately)***

- *To be signed and stamped by the Manufacturer and Bidder*
- *To be attached with Technical Bid*

[See Clause 2.3.5 (iii) of the Instructions to Bidders.]

To: *[name of the Procuring Agency]*

WHEREAS *[name of the Manufacturer]*, who are established and reputable manufacturers of *[name and/or description of the goods]* having factories at *[address of factory]* do hereby authorize *[name and address of Agent]* to submit a Bid against the *[Bidding Document No. and Title - – Lot No. XX]*, and subsequently, negotiate and sign the Contract with you against for the above goods manufactured by us/software produced by us.

The e-contact details and verifiable link to confirm catalog/part numbers, warranty, subscription & support services, as applicable, are as under:

- E-Contact details of Principal / OEM
- Verifiable Link for catalog, part numbers, warranty, support, subscription, etc.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply/software to be delivered by the above firm against the *[Bidding Document No. and Title – Lot No. XX]*.

[Signature for and on behalf of Manufacturer]

Note:

- This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its Bid.*
- This letter of authority is provided as a sample. However, the bidders can amend, as appropriate, to serve the purpose of required authorization as per the evaluation criteria in the Bidding Document.*

8.4. Bidder Profile Form
(For each Lot Separately)

- To be reproduced on the letter head, signed & stamped by the Bidder.
- To be attached with Technical Bid

Sr.#	Particulars
1.	Name of the company:
2.	Registered Office:
	Address:
	Office Telephone Number:
	Fax Number:
3.	Contact Person:
	Name:
	Personal Telephone Number:
	Email Address:
4.	Local office if any:
	Address:
	Office Telephone Number:
	Fax Number:
5.	Registration Details:

a) Audited Financial Statement Attachment/Income Tax Return (Last 03 years) – or as applicable per the evaluation criteria

Yes	No
-----	----

b) Details of Experience (Last 03 Years) – or as applicable per the evaluation criteria

(i)	Similar Project (Agency/Department)	Item Name
(ii)	Value of total Projects/Tenders/POs	Amount

c) Staff Detail and last month Payroll – If applicable per the evaluation criteria

Yes	No
-----	----

8.5. General Information Form
(For each Lot separately)

- *To be reproduced on the letter head, signed & stamped by the Bidder.*
- *To be attached with Technical Bid*

	Particulars			
Company Name				
Abbreviated Name				
National Tax No.			Sales Tax Registration No	
PRA Tax No.				
No. of Employees			Company's Date of	
			Formation	

*Please attach copies of NTN, GST Registration, and Professional Tax Certificate (if applicable)

Registered Office Address		State/Province	
City/Town		Postal Code	
Phone		Fax	
Email Address		Website Address	

8.6. Affidavit

(For each Lot separately)

- *To be printed on PKR 100 Stamp Paper, duly attested by oath commissioner or on the Official Letter-head.*
- *To be attached with Technical Bid*

Name: _____
(Applicant)

I, the undersigned, do hereby certify that all the statements made in the Bidding document and in the supporting documents are true, correct and valid to the best of my knowledge and belief and may be verified by employer if the Employer, at any time, deems it necessary.

The undersigned hereby authorize and request the bank, person, company or corporation to furnish any additional information requested by the *[name of Procuring Agency]* of the Punjab deemed necessary to verify this statement regarding my (our) competence and general reputation.

The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the *[name of Procuring Agency]*. The undersigned further affirms on behalf of the firm that:

- (i) The firm is not blacklisted by the procuring agency and PPRA.
- (ii) The documents/photocopies provided by the firm with its Bid are authentic. (In case of any fake/bogus document found at any stage of the procurement process, the firm shall be blacklisted as per Rules / Laws.)
- (iii) The firm certifies the correctness of information.
- (iv) The firm complies with Section – III “Technical Specifications”, and Section – VII “Schedule of Requirements” of the Bidding Document.
- (v) The firm complies with all terms & conditions mentioned in the Bidding Documents.
- (vi) The firm complies that its Bid is valid for 90 days after the opening of the E-Bid.
- (vii) The firm certifies that if awarded the contract, the procuring agency may deduct all the relevant taxes and duties, from its invoice, as applicable.
- (viii) The firm undertakes that it shall provide the Performance Guarantee and sign the formal contract within Twenty-Five (25) days of the issuance of notification of award/Letter of Intent (LOI).

[Name of the Contractor/ Bidder/ Supplier] undertakes to treat all information provided as confidential.

Signed by an authorized Officer of the company

Title of Officer: _____

Name of Company: _____

Date: _____

8.7. Performance Guarantee Form
(For each Lot separately)

To, _____
[name and address of the Procuring Agency]

WHEREAS (Name _____ of the Contractor/ Supplier) _____ hereinafter called "the Contractor" has undertaken, in pursuance of "INVITATION TO BID FOR THE "**PURCHASE/PROCUREMENT OF _____**" procurement of the following:

1. *[Please insert details]*.
(Here in after called "the Contract").

AND WHEREAS it has been stipulated by you in the Contract that the Contractor shall furnish you with a bank guarantee by a scheduled bank for the sum specified therein as security for compliance with the Contractor's performance obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor a Guarantee;

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

This guarantee is valid until _____ day of _____, 20____, or _____ [insert number of days] after the rectification of the Defects, expiry date of the warranty period, support period or termination of services, or fulfillment of all obligations under the contract, whichever is later.

[NAME OF GUARANTOR]

Signature _____

Name _____

Title _____

Address _____

Seal _____

Date _____

8.8. Technical Bid Form

Instructions for Bidders on Technical Compliance Table for each Lot (Technical Bid):

- 1. Fill out the table completely:**
 - a) Enter the parameters of your offered goods/services against the required parameters from the technical specifications provided below.
 - b) For compliance, mark “Yes” if the offered parameters meet or exceed the required specifications; otherwise, mark “No.”

- 2. Provide references:**
 - a) Indicate the relevant page number in your bid where supporting documents can be found.
 - b) Include any online references (e.g., product datasheets, official documentation links) and specify the relevant page number for easy verification.

- 3. Ensure accuracy and completeness:**
 - a) Incomplete responses, failure to provide references, or discrepancies in compliance may lead to disqualification.

- 4. Format and submission:**
 - a) Submit the table as part of your Technical Proposal in the specified format for each lot separately.
 - b) Use additional rows as required to address all parameters.

Technical Compliance Table Template (For Each Bid Form – Technical Bid)

LOT No. XX					
LOT (Functional requirement for turnkey solution)					
ITEM No. XX (Description)					
S. No.	Required Parameters (from Technical Specifications)	Offered Parameters (by Bidder)	Compliance (Yes/No)	Reference Page Number in the Bid	Online Reference Link or Datasheet with Page Number in the Bid
1	[Enter the required specification]	[Enter the offered specification]	[Yes/No]	[Page Number]	[Online link or Datasheet Reference Page Number in the Bid]
2	[Enter the required specification]	[Enter the offered specification]	[Yes/No]	[Page Number]	[Online link or Datasheet Reference Page Number in the Bid]
3	[Enter the required specification]	[Enter the offered specification]	[Yes/No]	[Page Number]	[Online link or Datasheet Reference Page Number in the Bid]
4	[Enter the required specification]	[Enter the offered specification]	[Yes/No]	[Page Number]	[Online link or Datasheet Reference Page Number in the Bid]
5	[Enter the required specification]	[Enter the offered specification]	[Yes/No]	[Page Number]	[Online link or Datasheet Reference Page Number in the Bid]

TECHNICAL BID FORM
(For each Lot separately)

- *Item names and quantities must be reproduced from Section – III (Technical Specifications). If any deviations are needed, it must be mentioned/quoted, separately in the Technical Proposal.*
- *Optional Bid/Quote is not allowed. The bidders must comply with the requirements mentioned in SECTION – III and submit their bid accordingly against each item.*
- *To be reproduced on the letter head, signed & stamped by the Bidder.*
- *To be attached with Technical Bid.*

LOT No. XX						
LOT (Description/Title)						
ITEM No. XX (Description)						
S. No.	Item Name	Brand name with Country of Manufacturer	Make & Model	Country of Origin	Quantity	Offered Parameters (Specification/Dimensions)
1						
2						
3						
4						
5						

Stamp & Signature of Bidder _____

8.9. Contract Form
(For each Lot separately)

THIS AGREEMENT made on the _____ day of _____ 20____ between [name of Procuring Agency] of [country of Procuring Agency] (hereinafter called “the Procuring Agency”) on the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called “the Supplier”) on the other part:

WHEREAS the Procuring Agency invited Bids for certain goods and ancillary services, viz., [brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of [contract price in words and figures] (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Bid Form and the Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Special Conditions of Contract; and
 - (f) the Procuring Agency’s Notification of Award.
 - (g) Contract agreement
 - (h) Complete Bidding document
3. In consideration of the payments to be made by the Procuring Agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Agency to provide the goods and services and to rectify defects therein in conformity with all respects in accordance with the provisions of the Contract.
4. The Procuring Agency hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the rectification 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 their respective laws the day and year mentioned above.

Signed, sealed, delivered by _____ the _____ (for the Procuring Agency)

Signed, sealed, delivered by _____ the _____ (for the Supplier)

8.10. Financial Bid Form/Price Schedule

(For each Lot separately)

- *Item names and quantities must be reproduced from Section – III (Technical Specifications). If any deviations are needed, it must be mentioned/quoted, separately in the Financial Proposal.*
- *To be reproduced on the letter head, signed & stamped by the Bidder.*
- *To be attached with Financial Bid.*

Financial Bid Templet

LOT No. 01							
IT Hardware turnkey Solution							
S. No.	Item Name	Offered Parameters (Specification/Dimensions)	Brand, Make & Model	Country of Origin	Unit price (inclusive of all taxes & duties etc.)	Quantity	Total price (inclusive of all taxes & duties etc.)
1	GPU Servers					3	
2	Virtualization					1	
3	Backup Server					1	
4	NGFW					2	
5	Data Center Core Switch					2	
6	Aggregate Switch					2	
7	Internet Switch					2	
8	Management Switch					2	
9	48 port PoE + Access Switch					3	
10	WLAN Controller					2	
11	Access Points					5	
12	IT RACK CABINET (Modular Data Center - 4 Rack+ Redundant In-row Cooling With Redundant UPS, etc <i>(as per section-III)</i>)					1	
13	Passive Networking					1 Job (APA)	
14	High End Laptops/ All in One Desktops					15	
15	Laptops/ All in One Desktops					20	
16	Photo Copier Machine					1	
17	CCTV Solution					1	
18	IP Phone Sets					15	
19	Media Wall					1	
20	IOS Mobile Devices					8	
21	Biometric Attendance System (Facial and Fingerprint)					4	

22	200 KVA Genset, conopy, fiber shed and all allied accessories					1	
23	UPS/Inverter (Tower Model)					3	
24	48,000 Btu/Hr; 4Ton Capacity with supply & Installation of Acs					6	
25	AC's 2 Ton, Wall mounted, heat and cool invertor Type					12	
26	AC Copper Pipe, Drainage Pipe, Commissioning and installation with app aspects (per RFT rate)					APA	
27	Supply & Installation of SMART LED					20	
28	EDR					100	
29	Installation Cost of complete turnkey solution					01 Job	
						Total Bid Cost PKR (Incl. all taxes)	

Total Bid value (against which a Bid shall be evaluated) in figure.

Total Bid value (against which a Bid shall be evaluated) in words.

Note:

- (i) In case of difference between unit price and total price, unit price shall prevail and total price shall be “final”. (Please refer ITB clause 2.5.6).
- (ii) In case of difference between amount in “words” and amount in “figures”, amount in “words” shall be considered final.
- (iii) A bid not compliant to the taxes (as notified by the government) or excluding applicable taxes and duties shall straight away be rejected.
- (iv) Where required, the price for the Optional Items should be quoted separately in the Financial Proposal.

Stamp & Signature of Bidder _____

8.11. Bid Security Form (For each Lot separately)

- To be reproduced on the letter head, signed & stamped by the Bidder.
- Copy of the Bid security instrument must be submitted with the financial proposal,
- **Original Bid Security Instrument must be submitted in an envelope clearly marked with the Bidding Document Number and Title, before the conclusion of Bid Opening session at:**
Procurement Office
11th Floor, Arfa Software Technology Park (ASTP), 346-B, Ferozpur Road, Lahore.

Whereas [name of the Bidder] (hereinafter called "the Bidder") has submitted its Bid dated [date of submission of Bid] for the supply of [name and/or description of the goods] (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE [name of bank] of [name of country], having our registered office at [address of bank] (hereinafter called "the Bank"), are bound unto [name of Procuring Agency] (hereinafter called "the Procuring Agency") in the sum of for which payment well and truly to be made to the said Procuring Agency, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20____.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its Bid by the Procuring Agency during the period of Bid validity:
 - (a) fails or refuses to execute the Contract Form, if required; or
 - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the Instructions to Bidders;

we undertake to pay to the Procuring Agency up to the above amount upon receipt of its first written demand, without the Procuring Agency having to substantiate its demand, provided that in its demand the Procuring Agency will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including **thirty (30) days** after the period of Bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

[Signature]

8.12. INTEGRITY PACT
(For each Lot separately)

- **To be signed by the awardee**

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

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

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

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

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

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

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

Name of Employer:
Signature:

[Seal]

Name of Contractor:
Signature:

[Seal]

Section IX- Check List (For each Lot separately)

- The provision of this checklist is essential prerequisite along with submission of Bid.
- Please fill **(YES, NO, N/A)** or **“Check Mark”** the relevant columns, mark the Section Number, and attach this Checklist on top of the Technical Proposal.

SECTION No.	Description/Documents	Technical Proposal	Financial Proposal
1	Technical Bid Form & Compliance Table (as per form 8.8 of Bidding documents) on letter head of the firm, duly signed and stamped.		
2	Original Bid Security Instrument (Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker’s cheque).		
3	Original Bid form (as per form 8.1 of Bidding documents) on letter head of the firm, duly signed and stamped.		
4	Bidder Information Form (as per form 8.4 of Bidding documents) on letter head of the firm, duly signed and stamped.		
5	General Information Form (as per form 8.5 of Bidding documents) on letter head of the firm, duly signed and stamped.		
6	Copy of Registration with Income Tax Authorities - National Tax Number (NTN)		
7	Copy of Registration with relevant Sales Tax Authorities		
8	Copy of Income Tax and Sales Tax (Operative Status)		
9	Affidavit (as per form 8.6) on non-judicial Stamp Paper of Rs. 100/- or Official Letter-head: (i) The firm is not blacklisted by the procuring agency and PPRA. (ii) The documents/photocopies provided by the firm with its Bid are authentic. (In case of any fake/bogus document found at any stage of the procurement process, the firm shall be black listed as per Rules / Laws.) (iii) The firm certify the correctness of information. (iv) The firm comply with Section – III “Technical Specifications”, and Section – VII “Schedule of Requirements” of the Bidding Document. (v) The firm comply with all terms & conditions mentioned in the Bidding Documents. (vi) The firm comply that its Bid is valid for 90 days after opening of the E-Bid. (vii) The firm certifies that if awarded the contract, the procuring agency may deduct all the relevant taxes and duties, from its invoice, as applicable. (viii) The firm undertakes that it shall provide the Performance Guarantee and sign the formal contract within twenty-five (25) days of the issuance of notification of award/Letter of Intent (LOI).		
10	Joint Venture (JV) Agreement and Bidder s JV Member information as per form 8.2 (if applicable)		
11	Authorization Documents/Mal/MAF/Certificates/Licenses/Verifiable Links etc. or any other documentary evidence to the same effect , as per the Evaluation Criteria		
12	Relevant Past Experience Documents , as per the Evaluation Criteria, on letter head of the firm, duly signed and stamped.		
13	All required samples (if demanded) have been submitted to <i>[name of the Procuring Agency/Department/Team]</i> or attached with the Technical Proposal.		
14	Financial Bid Form (as per form 8.10 of Bidding documents) on letter head of the firm, duly signed and stamped.		
15	Bid Security Form (as per form 8.11 of Bidding documents)		
16	Copy of Bid Security Instrument (Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker’s cheque).		

Stamp & Signature of Bidder _____

Annex-A

Table 1: Gartner Data Snapshot: Preliminary Worldwide PC Vendor Unit Shipment Estimates for 2Q25 (Thousands of Units)

Company	2Q25 Shipments	2Q25 Market Share (%)	2Q24 Shipments	2Q24 Market Share (%)	2Q25-1Q24 Growth (%)
Lenovo	17,038	26.9	14,956	24.7	13.9
HP Inc.	14,124	22.3	13,692	22.6	3.2
Dell	9,832	15.6	10,140	16.7	-3.0
Apple	5,699	9.0	5,026	8.3	13.4
ASUS	4,486	7.1	4,128	6.8	8.7
Others	12,045	19.1	12,598	20.8	-4.4
Total	63,225	100.0	60,541	100.0	4.4

Notes: Data includes desktop and laptop PCs that are equipped with Windows, macOS and Chrome OS. All data is estimated based on a preliminary study. Final estimates will be subject to change. The statistics are based on shipments selling into channels. Numbers may not add up to totals shown due to rounding.

Source: Gartner (July 2025)

Top 5 Companies, Worldwide Traditional PC Shipments, Market Share, and Year-Over-Year Growth, Q2 2025 (Preliminary results, shipments are in millions of units)

Company	2Q25 Shipments	2Q25 Market Share	2Q24 Shipments	2Q24 Market Share	2Q25/2Q24 Growth
1. Lenovo	17.0	24.8%	14.7	23.0%	15.2%
2. HP Inc	14.1	20.7%	13.7	21.3%	3.2%
3. Dell Technologies	9.8	14.3%	10.1	15.7%	-3.0%
4. Apple	6.2	9.1%	5.1	8.0%	21.4%
5. ASUS	4.9	7.2%	4.2	6.6%	16.7%
Others	16.3	23.9%	16.3	25.4%	0.1%
Total	68.4	100.0%	64.2	100.0%	6.5%

Source: IDC Quarterly Personal Computing Device Tracker, July 8, 2025

Table 1: Gartner Data Snapshot: Preliminary Top 5 Worldwide PC Vendor Unit Shipment Estimates for 3Q25 (Thousands of Units)

Company	3Q25 Shipments	3Q25 Market Share (%)	3Q24 Shipments	3Q24 Market Share (%)	3Q25-3Q24 Growth (%)
Lenovo	19,421	27.8	16,649	25.8	16.6
HP Inc.	15,002	21.5	13,561	21.0	10.6
Dell	10,166	14.5	9,919	15.4	2.5
Apple	6,203	8.9	5,605	8.7	10.7
ASUS	5,383	7.7	5,100	7.9	5.5
Others	13,740	19.7	13,777	21.3	-0.3
Total	69,914	100.0	64,611	100.0	8.2

Top 5 Companies, Worldwide Traditional PC Shipments, Market Share, and Year-Over-Year Growth, Q3 2025 (Preliminary results, shipments are in millions of units)

Company	3Q25 Shipments	3Q25 Market Share	3Q24 Shipments	3Q24 Market Share	3Q25/3Q24 Growth
1. Lenovo	19.4	25.5%	16.5	23.8%	17.3%
2. HP Inc	15.0	19.8%	13.6	19.6%	10.7%
3. Dell Technologies	10.1	13.3%	9.8	14.2%	2.6%
4. Apple	6.8	9.0%	6.0	8.7%	13.7%
5. ASUS	5.9	7.8%	5.3	7.7%	11.4%
Others	18.6	24.5%	18.1	26.1%	3.0%
Total	75.9	100.0%	69.3	100.0%	9.4%

Source: IDC Quarterly Personal Computing Device Tracker, October 8, 2025

Table 1: Preliminary Worldwide PC Vendor Unit Shipment Estimates for 4Q25 (Thousands of Units)

Company	4Q25 Shipments	4Q25 Market Share (%)	4Q24 Shipments	4Q24 Market Share (%)	4Q25-4Q24 Growth (%)
Lenovo	19,437	27.2	17,004	26.0	14.3
HP Inc.	15,392	21.5	13,730	21.0	12.1
Dell	11,783	16.5	9,970	15.2	18.2
Apple	6,689	9.4	6,327	9.7	5.7
ASUS	4,851	6.8	4,718	7.2	2.8
Acer	4,165	5.8	4,131	6.3	0.8
Others	9,180	12.8	9,529	14.6	-3.7
Total	71,496	100.0	65,409	100.0	9.3

Top 5 Companies, Worldwide Traditional PC Shipments, Market Share, and Year-Over-Year Growth, Q4 2025 (Preliminary results, shipments are in millions of units)

Company	4Q25 Shipments	4Q25 Market Share	4Q24 Shipments	4Q24 Market Share	4Q25/4Q24 Growth
1. Lenovo	19.3	25.3%	16.9	24.2%	14.4%
2. HP Inc	15.4	20.1%	13.7	19.7%	12.1%
3. Dell Technologies	11.7	15.3%	9.9	14.2%	18.2%
4. Apple	7.1	9.3%	7.1	10.2%	0.2%
5. ASUS	5.4	7.1%	4.9	7.0%	10.9%
Others	17.4	22.8%	17.2	24.7%	1.5%
Total	76.4	100.0%	69.7	100.0%	9.6%

Source: IDC Quarterly Personal Computing Device Tracker, January 12, 2026

Table 1: Preliminary Worldwide PC Vendor Unit Shipment Estimates for 1Q26 (Thousands of Units)

Company	1Q26 Shipments	1Q26 Market Share (%)	1Q25 Shipments	1Q25 Market Share (%)	1Q26-1Q25 Growth (%)
Lenovo	16,645	26.5	15,199	25.2	9.5
HP Inc.	12,142	19.3	12,766	21.1	-4.9
Dell	10,337	16.5	9,608	15.9	7.6
Apple	6,684	10.6	5,933	9.8	12.7
ASUS	4,210	6.7	3,801	6.3	10.8
Acer	4,001	6.4	3,853	6.4	3.9
Others	8,780	14.0	9,205	15.2	-4.6
Total	62,800	100.0	60,365	100.0	4.0

Top 5 Companies, Worldwide Traditional PC Shipments, Market Share, and Year-Over-Year Growth, Q1 2026 (Preliminary results, shipments are in millions of units)

Company	1Q26 Shipments	1Q26 Market Share	1Q25 Shipments	1Q25 Market Share	1Q26/1Q25 Growth
1. Lenovo	16.5	25.2%	15.2	23.8%	8.6%
2. HP Inc	12.1	18.5%	12.8	20.0%	-4.9%
3. Dell Technologies	10.3	15.7%	9.6	14.9%	7.7%
4. Apple	6.2	9.5%	5.7	8.9%	9.1%
5. ASUS	4.8	7.2%	4.1	6.3%	17.1%
Others	15.7	23.9%	16.7	26.1%	-6.2%
Total	65.6	100.0%	64.0	100.0%	2.5%

Source: IDC Quarterly Personal Computing Device Tracker, April 8, 2026

Annex-B

