

Tender Document No.: 327072023-1

**PROCUREMENT OF OPERATIONS & MAINTENANCE (O&M) SUPPORT
SERVICES AND WARRANTIES
FOR PITB DATACENTER**

DC - 02



Punjab Information Technology Board (PITB)

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Section-I: Invitation to Bids

BIDDING DOCUMENTS FOR THE PROCUREMENT OF OPERATIONS & MAINTENANCE (O&M) SUPPORT SERVICES AND WARRANTIES FOR PITB DATACENTER (DC – 02)

1. Sealed Bids for the provision of OPERATIONS & MAINTENANCE (O&M) SUPPORT SERVICES WITH WARRANTIES FOR PITB DATACENTER 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 Bids shall be received as per single stage two envelope procedures.

Lot No.	Description of Services	Quantity	Estimated Cost	Bid Security (Fixed)
1	O&M Support with Warranties for PITB Datacenter	Multiple	84,000,000	1,680,000

2. All Bids must be accompanied by a Bid Security of the estimated price, as mentioned in the Table above, and in the form of CDR/Bank Guarantee / Demand Draft / Pay Order. Late Bids shall be rejected.
3. The complete Bids must be delivered into the Tender Box, placed at reception of 13th Floor, Arfa Software Technology Park (ASTP), 346-B, Ferozepur Road, Lahore, Pakistan, as per the following schedule:

Bid Submission Date & Time	15 August, 2023 @ 12:00 PM
Bid Opening Date & Time	15 August, 2023 @ 12:30 PM
Pre-Bid Meeting Date, Time & Place	08 August, 2023 @ 11:00 AM 13th Floor, Arfa Software Technology Park (ASTP), 346-B, Ferozepur Road, Lahore.

4. 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 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>.

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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 OPERATIONS & MAINTENANCE (O&M) SUPPORT SERVICES WITH WARRANTIES FOR PITB DATACENTER as specified in the Section-IV Bid Data Sheet (BDS) and Section VII- Schedule of Requirements. The successful Bidders will be expected to provide the services for 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 got the requisite funds. 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.), 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 services to be purchased under this Invitation to Bids.
 - 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 any Government department/other Procuring Agency or by Punjab Procurement Regulatory Authority (PPRA).
 - 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 may 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 Power of Attorney 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 Bid and shall be attested.
- viii) Any 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 bidder/service provider subject to any provisions or licensing/regulatory requirements issued by the respective national/ provincial professional statutory body established for that particular trade or business.
- x) A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. 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 in the past, 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

for the procurement of the services to be purchased under this Invitation for Bids.

- 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 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
- f) submit more than one Bid in this Bidding process, However, this does not limit the participation of subcontractors in more than one Bid.

xi) 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 instituted 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, Service Provider and contractor is blacklisted/ debarred by any international organization.

- xii) 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.
- xiii) Bidders shall provide such evidence of their continued eligibility satisfactory to the Procuring Agency, as the Procuring Agency shall reasonably request.
- xiv) 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. Cost of Bidding

- i) The Bidder shall bear all costs associated with the preparation and submission of its 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-

2.1.5. 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.

2.1.6. Work Plan/Deputation Plan

- i) The Bidder shall be responsible for the provision of bids as per work plan/deputation plan formulated by the procuring agency and procuring agency may also, from time to time amend the same as per its requirement.

2.2. The Bidding Documents

2.2.1. Content of Bidding Documents

- i) The services 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) Bidder Profile Form
 - (j) General Information Form
 - (k) Affidavit
 - (l) Bid Security Form
 - (m) Technical Bid Form
 - (n) Contract Form
 - (o) Financial Bid Form / Price Schedule
 - (p) Performance Guarantee Form
 - (q) 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 substantially 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. The Procuring Agency will respond in writing to any request for clarification of the Bidding documents which it receives no later than seven (7) days prior to the deadline for the submission of Bids prescribed in the Bid Data Sheet. Written copies of the Procuring Agency's response (including an explanation of the query but without identifying) will be sent to all prospective Bidders that have received the Bidding documents.
- ii) A prospective Bidder requiring any clarification of the Bidding Documents may notify the Procuring Agency in writing or in electronic form that provides record of the content of communication at the Procuring Agency's address indicated in the BDS.
- iii) The Procuring Agency will within three (3) 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 (7) 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 forwarded to all identified Prospective Bidders through an expeditious identified source of communication, e.g.: e-mail etc., 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 who have obtained the Bidding Documents. 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 time 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, preferably through electronic means also, not later than three (3) days, and on equal opportunity basis as per Rule-25(3) of PPR-14.
- ii) All prospective Bidders that have received the Bidding documents will be notified of the amendment in writing or by email, and will be binding on them.
- iii) Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or pre-Bid meeting may modify the Bidding Documents by issuing addenda.
- iv) Any addendum issued including the notice of any extension of the deadline shall be part of the Bidding Documents and shall be communicated in writing or in any identified electronic form, e.g. email that secures record of the content of subject communication.
- v) 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 OPERATIONS & MAINTENANCE (O&M) SUPPORT SERVICES WITH WARRANTIES FOR PITB DATACENTER etc. to be provided.
- 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 OPERATIONS & MAINTENANCE (O&M) SUPPORT SERVICES WITH WARRANTIES FOR PITB DATACENTER, the services of which it proposes to provide under the contract.
 - ii) Prices indicated on the Price Schedule shall be item wise/ package wise.
 - iii) The Bidder's separation of price components in accordance with ITB Clause 2.3.4(i) 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 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.
 - ii) The Bidders must adhere to the minimum wage rate (notified by Labour & Human Resource Department) and all applicable taxes (imposed by FBR/PRA/any other government organization) while preparing financial bid.

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 Bid, documents establishing the Bidder's eligibility to Bid and its qualifications to perform the contract if its 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 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 Bid is accepted, shall establish to the Procuring Agency's satisfaction:
 - (a) that the Bidder has the financial, technical capability necessary to perform the contract;
 - (b) That the Bidder meets the qualification criteria listed in the Bid Data Sheet.

2.3.6. Bid Security

- i) The Bidder shall furnish, as part of its 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 2.3.6. (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 Bid not secured in accordance with ITB Clauses 2.3.7 (i) and (iii) 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 2.3.7 (iii) (a) 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 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. is blacklisted under relevant provisions of PPRA Act, 2009 and PPR-14.

2.3.7. 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). The Bid security provided under ITB Clause 2.3.7 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.

2.3.8. Format and Signing of Bid

- i) The Bidder shall prepare an original and the number of copies of the Bid indicated in the Bid Data Sheet, clearly marking each “ORIGINAL BID” and “COPY OF BID,” as appropriate. In the event of any discrepancy between them, the original shall prevail.

- 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 bid. However, in case of any issue bidder shall be responsible for all consequences.
- iii) The original and the copy or copies of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the contract. All pages of the Bid, shall be initialed by the person or persons signing the Bid.
- iv) Any interlineation, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the Bid.
- v) The original and the copy or copies of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the **BDS** and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, shall be initialed by the person or persons signing the Bid.
- vi) 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.

2.3.9. Minimum Wage rates/all applicable taxes

- i) The Bidders must adhere to the minimum wage rate (notified by Labour & Human Resource Department) and all applicable taxes (imposed by FBR/PRA/any other government organization) while preparing financial bid.

2.4. Submission of Bids

2.4.1 Sealing and Marking of Bids

- i) As per Rule 24, the Bidder shall seal the original and each copy of the Bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope.
- ii) The inner and outer envelopes shall:
 - a. be addressed to the Procuring Agency at the address given in the Bid Data Sheet; and

- b. bear the title of procurement Activity indicated in the Bid Data Sheet, the Invitation to Bids (ITB) title and number indicated in the Bid Data Sheet, and a statement: “DO NOT OPEN BEFORE..... (time and date),” *[to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.4.2.]*
- iii) The inner envelopes shall also indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared “late”.
- iv) If the outer envelope is not sealed and marked as required by ITB Clause 2.4.1 (i), the Procuring Agency will assume no responsibility for the Bid’s misplacement or premature opening.
- v) In case of Single Stage One Envelope Procedure, the Bidder shall seal the original and each copy of the Bid in separate envelopes, duly marking the envelopes as “ORIGINAL” and “COPY.” The envelopes shall then be sealed in an outer envelope securely sealed in such a manner that opening and resealing cannot be achieved undetected.
Note: The envelopes shall be sealed and marked in accordance with the bidding procedure adopted as referred in Rule-38 of PPR-2014, which shall have precedence.
- vi) The inner and outer envelopes shall:
 - a) be addressed to the Procuring Agency at the address given in the **BDS**; and
 - b) bear the title of the subject procurement or Project name, as the case may be as indicated in the **BDS**, the Invitation to Bids (ITB) title and number indicated in the **BDS**, and a statement: “DO NOT OPEN BEFORE,” to be completed with the time and the date specified in the **BDS**, pursuant to **ITB 2.4.2.**
- vii) In case of Single Stage Two Envelope Procedure, The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Proposal and the other Financial Proposal. Both envelopes to be enclosed together in an outer single envelope called the Bid. Each Bidder shall submit his bid as under:
 - a) Bidder shall submit his **TECHNICAL PROPOSAL** and **FINANCIAL PROPOSAL** in separate inner envelopes and enclosed in a single outer envelope.
 - b) **ORIGINAL** and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.

(c) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in BDS.

- viii) The inner and outer envelopes shall:
- a) be addressed to the Procuring Agency at the address provided in the BDS;
 - b) bear the name and identification number of the contract as defined in the BDS; and provide a warning not to open before the time and date for bid opening, as specified in the BDS, pursuant to ITB 2.4.2;
 - c) In addition to the identification required in Sub- Clause (b) hereof, the inner envelope shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to ITB.2.4.3.
- ix) If all envelopes are not sealed and marked as required by **ITB 2.4.1** or incorrectly marked, the Procuring Agency will assume no responsibility for the misplacement or premature opening of Bid.

2.4.2 Deadline for Submission of Bids

- i) Bids must be received by the Procuring Agency at the address specified under BDS no later than the time and date specified in the Bid Data Sheet.
- 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.

2.4.3. Late Bids

- iii) Bids shall be received by the Procuring Agency at the address specified under **BDS** no later than the date and time specified in the **BDS**.
- i) Any Bid received by the Procuring Agency after the deadline for submission of Bids prescribed by the Procuring Agency pursuant to ITB Clause 2.4.2 will be rejected and returned unopened to the Bidder.
- ii) The Procuring Agency shall not consider for evaluation any Bid that arrives after the deadline for submission of Bids.
- iii) Any Bid received by the Procuring Agency after the deadline for submission of Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.

2.4.4. Modification and Withdrawal of Bids

- i) The Bidder may modify or withdraw its Bid after the Bid's submission, provided that written notice of the modification, including substitution or withdrawal of the Bids, is received by the Procuring Agency prior to the deadline prescribed for submission of Bids.
- ii) The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of Clause (i) A withdrawal notice may also be sent by email, but followed by a signed confirmation copy, postmarked not later than the deadline for submission of Bids.
- iii) No Bid may be modified after the deadline for submission of Bids.
- iv) No Bid may be withdrawn in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Bid Form. Withdrawal of a 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 2.3.7 (vii).
- v) 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.
- vi) 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 Bids

2.5.1. Opening of Bids by the Procuring Agency

- i) The Procuring Agency will open all 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 as proof of their attendance.
- ii) First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding Withdrawal Notice contains a valid authorization to request the withdrawal and is read out at bid opening.

- iii) Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Bid shall be exchanged for the corresponding Original Bid being substituted, which is to be returned to the Bidder unopened. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.
- iv) Next, outer envelopes marked "MODIFICATION" shall be opened. No Technical Proposal and/or Financial Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of the Bids. Any Modification shall be read out along with the Original Bid except in case of Single Stage Two Envelope Procedure where only the Technical Proposal, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Proposal, both Original and Modification, will remain unopened till the prescribed financial bid opening date.
- v) Other envelopes holding the Bids shall be opened one at a time, in case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid and of any alternative Bid (if alternatives have been requested or permitted), any discounts, 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.
- vi) In case of Single Stage Two Envelope Procedure, the Procuring Agency will open 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 and will be held in custody of the Procuring Agency until the specified time of their opening.
- vii) The envelopes holding the Technical Proposals shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder; (b) whether there is a modification or substitution; (c) the presence of a Bid Security, if required; and (d) Any other details as the Procuring Agency may consider appropriate.

- viii) Bids not opened and not read out at the Bid opening shall not be considered further for evaluation, irrespective of the circumstances. In particular, any discount offered by a Bidder which is not read out at Bid opening shall not be considered further.
- ix) Bidders are advised to send in a representative with the knowledge of the content of the 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 Bid.
- x) No Bid will be rejected at the time of Bid opening except for late Bids which will be returned unopened to the Bidder, pursuant to **2.4.3 (i)**.
- xi) 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 withdrawal, substitution or modification, the Bid price if applicable.
- xii) 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. A copy of the record shall be distributed to all the Bidders.
- xiii) A copy of the minutes of the Bid opening shall be furnished to individual Bidders upon request.

[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.

2.5.3. Clarification of Bids

- ii) Any effort by a Bidder to influence the Procuring Agency processing of Bids or award decisions may result in the rejection of its 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 or in electronic forms that provides record of the content of communication.
- i) As per rule 33(2) of PPR-14, to assist in the examination, evaluation and comparison of Bids and post-qualification of the Bidders, the Procuring Agency may, at its discretion, ask any Bidder for a clarification of its Bid including breakdown of prices. 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 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 OPERATIONS & MAINTENANCE (O&M) SUPPORT SERVICES WITH WARRANTIES FOR PITB DATACENTER and related materials.
 - 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 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 in writing or in electronic forms that provide record of the content of communication.

2.5.4. Preliminary Examination

- i) The Procuring Agency will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order.
- 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 Service Provider 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 substantial responsiveness of each Bid to the Bidding documents, pursuant to ITB Clause 2.5.5. For purposes of these Clauses, a substantially 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 2.3.7), **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 substantially 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**;
 - 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 substantially 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 – Scope of Services / 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 2.3.7**.

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.

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, 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 substantially responsive, pursuant to ITB Clause 2.5.5.
- 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 evaluation inclusive of all prevailing taxes, duties, fees along with observance of minimum wages 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 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 in writing.
- 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 written complaint 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 GRC well before the proposal submission deadline.
- iii) Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the bidding documents found contrary to provision of Rule 34 and the same shall be addressed by the GRC well before the proposal submission deadline.
- iv) Any Bidder feeling aggrieved by any act of the Procuring Agency after the submission of his Bid may lodge a written complaint 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 for obtaining/ receiving grievance petitions from the prospective bidders (if any).
- v) In case, the complaint 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.
- vi) 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 by email to be confirmed in writing by registered letter, that its 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 2.3.7 (v).

2.6.2. Performance Guarantee

- i) **Within fifteen (15) 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) Penalty Charges on Late Submission of Performance Security: If the Contractor delays provision of Performance Security fifteen (15) days of the issuance of notification of award / Letter of Intent (LOI) from the Procuring Agency, a sum of money @0.25% of the total Performance Security, for every day beyond fifteen (15) days of the issuance of notification of award / Letter of Intent (LOI) from the Procuring Agency, will be deducted as Penalty Charges. Provided that total amount of Penalty Charges so deducted shall not exceed, an amount equal to the value of Bid Security.
- iii) 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 retain the amount equivalent to the percentage of Performance Security from the Contractor's payment, may terminate the Contract and award the contract to the next lowest evaluated Bidder, keeping in view the Bid validity time, or call for new 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 work Order

- i) At the same time as the Procuring Agency notifies the successful Bidder that its 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 fifteen (15) days of the issuance of notification of 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 Bid has been determined to be substantially responsive and has been determined to be the lowest evaluated 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 OPERATIONS & MAINTENANCE (O&M) SUPPORT SERVICES WITH WARRANTIES FOR PITB DATACENTER *etc.* originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions, on the analogy of rule-59 (iv) of PPR-14 (not more than 15%).

2.6.6. Procuring Agency's Right to Accept or Reject All Bids

- i) As per rule 35 of PPR-14, the Procuring Agency reserves the right to accept or reject all Bids or proposals (and to annul the Bidding process) at any time prior to the acceptance of any Bid or proposal, without thereby incurring any liability towards the Bidders. However, the Authority (i.e. PPRA) may call from the Procuring Agency the justification of those grounds.
- ii) The Bidders shall be promptly informed about the rejection of the Bids, if any
- iii) The Procuring Agency shall upon request communicate to any Bidder, the grounds for its rejection of all 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 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 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 debar 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 availed.*
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 availed.*
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 services as prescribed in Bid Data Sheet.
 - b. The Bidder have to maintain the rates of the services for the whole financial year.
- ii) 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 of Equipment and Installations Infrastructure

HVAC Equipment						
Sr. No.	Item	Description	Manufacturer	Product No.	Unit	Qty
1	Chiller	120kw	UNIFLAIR	TRAC1421 A	No.	3
2	Pumps	10HP	KSB	JL1090	No.	3
3	Stulz	15kw	STULZ	150 CW	No.	4
4	In Row RC	-	APC	ACRC301S	No.	7
5	In Row RP	43kw	APC	ACRP502	No.	4
6	Celling Fan	Mini fan for controlling humidity	-	-	No.	5
7	Temperature Sensors	For sensing change in temperature	-	-	No.	18
8	Humidity Sensors	For sensing change in humidity level	-	-	No.	45
9	Ceiling Casete unit	Ceiling Unit for room Cooling	Midea		No.	3
Electrical Equipment						
Sr. No.	Item	Description	Manufacturer	Product No.	Unit	Qty
1	Netbotz	Sensor Monitoring	APC	NBRK0570 , NBPD0150	No.	8
2	Electrical Panel	Main Panel=1 MCC= 2	PRISMA	-	No.	3
3	AVR	300KVA	ORTEA	-	No.	1
4	UPS	250KVA	APC	SY125K50 ODR-PDNB	No.	2
5	PDU	Power Distribution	SCHNEIDER	-	No.	90
6	PDPM	Power Distribution & Power Management	SCHNEIDER	Pdpm- 277H	No.	4
7	Motion Sensor	For sensing any motion in camera view	-	-	No.	15
8	UPS Battery	90 Amp Lead Dry Battery- needs replacement	YUASA		No.	6
Fire Detection & Suppression Equipment						
Sr. No.	Item	Description	Manufacturer	Product No.	Unit	Qty
1	Vesda Device	Xtralis(Very Early Smoke Detector)	Cheetah Fike	10-068	No.-	7
2	Smoke Sensors	Senses smoke	Cheetah Fike	-	No.-	72
3	Vesda Nozzles	Xtralis	Cheetah Fike	-	No.-	58
4	Vesda Panel	Xtralis	Cheetah Fike	-	No.-	2
5	Fire Buzzer	Buzzes alarm in the event of any detected hazard	Cheetah Fike	-	No.-	7
6	Fire Extinguisher Cylinders	FM200	FENWAL	-	No.-	8

Access Control System						
Sr. No.	Item	Description	Manufacturer	Product No.	Unit	Qty
1	Card +Biometric		BiO Class		No.-	2
2	RFID Reader				No.-	20
3	Access Controller with allied infra. & management Software	Andover Continuum (ACX Series)			No.-	4
4	Magnetic Lock					14
DCIM & CCTV Software						
Sr. No.	Item	Description	Manufacturer	Product No.	Unit	Qty
1	DCIM Software	DCIM, Structureware software and hardware	Schneider		No.	1
2	IP Based CCTV Cameras with NVR & Software	Indoor Fixed Mini Dome POE, 24V Camera Standard 0.5MP Resolution 30IPS DayNight DC Auto Iris lens.	Pelco		No.-	22
3		PTZ Camera with H.264 compression 23X flush/in-ceiling environmental mount, black back box, and clear bubble. PAL.			No.-	2
On Site Level 1 Resident Engineers to work in Shifts						
1	Resident Engineer	Working in shifts HVAC-1 / Electrical-1 / 8 hours shift Min. DAE/Associate degree(Electrical/Electronics/HVAC or relevant) from Govt. Recognized institute with min 1 year of relevant experience	-	-	No.	5
2	Resident Supervisor	8 hours shift: Min. DAE/Associate degree (Electrical/Electronics/HVAC or relevant) from Govt. Recognized institute with min 4 year of relevant experience	-	-	No.	1
3	Janitorial Staff	8 hours shift			No.	1

Note:

- All related and in path infrastructure including piping, valves, electrical cables, switches, changeovers, circuit breakers, sensors, etc. and related parts in HVAC, Electrical, fire alarm & suppression systems would come under the subject contract. Detailed BOQ of relevant installations is attached at **ANNEXURE - A**.
- Faulty Parts must be replaced with new parts, however temporary/interim solution may be proposed in case of non-availability or force majeure conditions till the new part arrives.
- SLA is attached as **ANNEXURE – B**.

4. Contractor should ensure spares stock as per contract requirements within three (03) months after the award of contract.
5. Interested firms may visit Datacenter facility for detailed understanding and health check of installations.

3.2 Scope of Services

Punjab Information Technology Board (PITB), invites / requests Proposals for the provision of warranties and maintenance support services regarding electrical, mechanical, HVAC, access control, Fire Safety, and environment control with onsite resident engineers for its Datacenter situated at Arfa Software Technology Park, Lahore. These services include preventive and predictive monitoring maintenance, incident handling and rectification support, as well as replacement of faulty equipment or parts with new part/parts under provisioned services and warranties for the mentioned systems and involved equipment.

The detailed Scope of Services is as under:

1. Fault Severity Levels Definitions:

1.1. High:

High level fault occurs when:

1.1.1. A critical element or arm of redundancy is affected or compromised, such that the critical equipment is still being supplied power and cooling, but there is only a single path / source of power or cooling part is available. All of the System redundancy is not available. In such a situation, if another similar failure happens, the operation of the critical equipment could be affected thereby affecting the DC Operation and services.

1.1.2. A combination of faults, although such occurrence is highly unlikely, as a result of which critical equipment is not being powered or cooled. In such a case, the operation of the critical equipment could be affected. In this situation, urgent actions need to be undertaken to bring back the system back to normal operation as soon as possible.

1.2. Medium:

Medium level fault occurs when:

An element or component of the system is affected, but the system continues to operate, and redundant and parallel paths / sources of power are still available. In this situation, actions need to be taken to bring the system back to its normal condition.

1.3. Low:

Low level fault occurs when:

An alarm or warning occurs in the system, and warrants attention, to review the situation and take corrective actions. It is important to take serious notice of a low-level alarm because it may be a precursor to a serious fault, if not taken care of. Faults' target Resolution Times Criticality Level Target Resolution Time Status Update

High 1 Hour Every 30 minutes. Medium 4 Hours Every 1 Hours Low 24 Hours Every 12 Hours

2. Incident/fault Resolution & Response time

	Problem or Error Classification		
	High	Medium	Low
Response Time	< 15 minutes	< 1 hours	< 4 hours
Restore Time	Continuous activity to restore in < 4 hours	< 8 hours	< 5 days
Permanent Resolution	Reasonable efforts to provide within 10 working days	20 working days	30 working days
Resource Allocation	Management and all appropriate technical resources	Appropriate technical resources	Technical resources as available

3. Operation Support & Maintenance Services Scope

3.1. Routine preventive maintenance.

3.1.1. Routine Preventive Maintenance: Routine Preventive maintenance will consist of:

- 3.1.1.1. Cleaning of equipment, and logging of all measurements taken.
- 3.1.1.2. Periodic Checking the mechanical soundness of all components.
- 3.1.1.3. Simulation of operation and, if necessary, making adjustments to the electronic control circuits etc.
- 3.1.1.4. Checking and adjustment of all electronic supervisory and alarm.
- 3.1.1.5. Control checks on all electrical, mechanical and filter elements.
- 3.1.1.6. Advise of any parts found defective and replace.
- 3.1.1.7. Checking, replacement and maintenance of internal filters as per OEM recommendations.
- 3.1.1.8. Monthly Water test of Chillers and CDU.

- 3.1.1.9. Compile shift wise, quarterly and annually comprehensive monitoring/maintenance checklists/ reports as per standard recommended maintenance requirements and submit one copy to the customer

3.2. Quarterly Preventive maintenance

- 3.2.1. Quarterly preventive maintenance of major devices including Chillers, Fire Control systems and electrical including AVR, UPS should be carried on quarterly basis as per recommendations of OEM and a comprehensive report must be shared with PITB. All replaceable parts having completed their principal recommended life should be replaced with new one.
- 3.2.2. Quarterly maintenance of Chillers involves chemical dosing/treatment of Water, cleaning of lines. However, if chilled water is drained during regular operations due to lack of maintenance or negligence on part of contractor and the subsequent water test is not satisfactory, contractor may have to perform/inject chemical dosing as required.

3.3. Repairs/replacement of the equipment in the event of failure.

- 3.3.1. Replacement parts must be genuine and of same origin as of the faulty/damaged/parts being replaced. However, in case of non-availability of required parts (which will be considered violation of SLA) compatible parts may be used for temporary restoration which would ultimately be replaced by genuine / new parts on the availability.
- 3.3.2. Repair of any part should be on principle recommended standards, any part for which principle doesn't recommend repair must not be repaired but should be replaced with new one.
- 3.3.3. Replaceable/disposable parts having completed their duty cycles / recommended life must be replaced immediately at the end of their life. Only excluding FM200. However, in case of accidental release of FM200 due to lack of maintenance or monitoring on part of contractor, the contractor would be responsible for the refill.
- 3.3.4. In case of any failure in parts / devices, the incident must be logged in the ticketing system and report must be shared with PITB Technical team immediately and the rational decision to replace or repair would be made as per recommendation of OEM.
- 3.3.5. Replacement / repair time of faulty parts must be in accordance with the resolution time mentioned in *Incident / fault Resolution & Response time* table above and should not in any case exceed one month / 30 days.

3.3.6. During the replacement time contractor is responsible for the uptime of HVAC, Electrical, Fire control, access control and related components under this maintenance contract and temporary solution may be adopted for short period of time such that the adopted solution must not cause further disorders in the main equipment/s.

3.4. Supply of Replacement Components/Spare List

3.4.1. CONTRACTOR will keep a good stock of Factory supplied spare parts / general category parts / devices for the 90% of the predictable faults and in case of required replacement the parts must be replaced in reasonable time and in accordance with the *Incident / fault Resolution & Response time* table above. Upon usage of these spares, CONTRACTOR will replenish these spare parts. The objective is to keep the Mean Time to Repair (MTTR) at a very low level, thereby minimizing the disruption to the customer's critical equipment.

4. Reporting Structure

Comprehensive reports should be generated as part of the routine service operation and shared with customer designated staff.

5. MSO Prerequisites

Purchaser will ensure the access to the Datacenter and equipment supplied by contractor. Specific Access by each engineer will be defined by contractor and approved by Purchaser Management. Working space for engineers will be the responsibility of the customer.

6. Escalation Procedures

Contractor should use PITB provisioned online automated ticketing and incident logging system. Contractor Service Engineers are required to log the incidents asap in said system and escalate problems immediately. It is required to devise a multi-notification routine of all faults that follows both the technical staff and management staff paths leading right up to the COO.

Resolution and response time calculations would be calculated through above mentioned ticketing system.

The following defines the Technical Escalation levels to a typical field anomaly. When an anomaly is reported, it should be escalated automatically to the required level described below. Consequently, the customer has to only maintain contact with the contractor Field Engineer and the management of Contractor as required.

6.1. Service Engineer (Level 1):

The onsite resident Service Engineers are the first person that comes across an issue on site. He will be the main point of contact for the customer/purchaser regarding any anomaly. The

service engineers are routinely involved in the maintenance of the entire datacenter Infrastructure, and have knowledge about the environment and application of the equipment.

6.2. Service Support Experts (Level 2):

Service Support Experts is the next level of escalation. These individuals should be active field engineers who have gained expertise with a particular product line and/ or are experienced in service for many years.

The entire CONTRACTOR organization including CONTRACTOR Management must be actively involved in coordinating activities once the problem escalates above Level 1. It should be Contractor's key objective to solve the problem on an urgent basis and keep the customer/purchaser informed of the progress being made.

6.3. Manufacturer's Technical Support Department (Level 3):

This group typically reports and operates in the Service Organization of the respective manufacturers. The purpose of this group is to be the central clearinghouse for serious service-related issues. The experts who have been identified by their management and have thorough knowledge about their products must be available to provide phone and other needed support. In critical situations, they must be required to travel to customer/purchaser sites to resolve issues. These experts should gather all information on a given product line from the beginning, and conduct important interface with their respective Quality and R&D organizations. They will collect vital field data that will be later analyzed, and vital Statistics reported to Service Management of the company.

7. TOOLS:

Tools required for service will be provided by CONTRACTOR.

8. Resource Engagement Procedures

CONTRACTOR Service Engineers should be selected to keep the job requirements in mind and as per min qualification and experience requirements mentioned in this document. It is CONTRACTOR responsibility to train them and keep that training up to date through periodic refresher training sessions. CONTRACTOR Service Management has the responsibility to monitor each and every report that is generated on site with an eye to spot problems and issues, before they occur. This should be in line with the problem prevention philosophy that is practiced at CONTRACTOR Engineering. Service Engineers should be trained by CONTRACTOR Expert Service Support Engineers, who are experts of their respective fields. The training should be rigorous and covers both theory and practice. The basics of equipment design philosophy, the theory of operation, monitoring and reporting norms, troubleshooting techniques and maintenance procedures should all be covered in great detail. The mode of training could be on the job or classroom based, with related equipment available in

close proximity It is further required that all trained engineers go through refresher training to ensure sharpness of skills, and to bring them up to date on the most recent findings, upgrades, enhancements, modifications etc.

9. Penalties:

In case of non-compliance to the mentioned time frames, monitoring and maintenance parameters following penalties would be applicable;

	Problem or Error Classification					
	High	Penalty	Medium	Penalty	Low	Penalty
Response Time	< 15 minutes	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each five minutes.	< 1 hours	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each hour/s.	< 4 hours	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each 4 hours.
Restore Time	Continuous activity to restore in < 4 hours	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each hour/s.	< 8 hours	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each 8 hours.	< 5 days	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each day

Permanent Resolution	Reasonable efforts to provide within 10 working days	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each day.	20 working days	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each 5 days.	30 working days	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each 5 days
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Note: Replacement of parts would be included in the relevant resolution criteria/requirement. Cost of Equipment means the service and warranty cost provided by the contractor for the specified Equipment that itself or its any part are out of order.

Section-IV: Bid Data Sheet

4.1. Bid Data Sheet (BDS)

The following specific data for the services 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: <u>PROCUREMENT OF OPERATIONS & MAINTENANCE (O&M) SUPPORT SERVICES FOR PITB DATACENTER (DC – 02)</u></p> <p>Commencement date for Start of Services: WITHIN FOUR (04) WEEKS</p>
2.	2.1.2	<p>Financial year for the operations of the Procuring Agency: 2023-24</p> <p>Name of Project/ Grant (Development or Non-Development): Non-Development</p> <p>Name of financing institution: Non-Development (PITB)</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: <i>[insert the number]</i>. 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:</p> <p><u>PRIMARY CONTACT</u></p> <p>Haroon Rasheed, Joint Director (DC)</p> <p>Email: haroon@pitb.gov.pk</p> <p>Arfa Software Technology Park, 346-B, Ferozpur Road, Lahore, Pakistan.</p> <p>Waqas Ahmed, PM (DC)</p>

		<p>Email: ch.waqas@dc.pitb.gov.pk Arfa Software Technology Park, 346-B, Ferozpur Road, Lahore, Pakistan.</p> <p><u>SECONDARY CONTACT</u> Sajjad Ghani CIO (IT (Infrastructure)) Email: sajjad@pitb.gov.pk Arfa Software Technology Park, 346-B, Ferozpur Road, Lahore, Pakistan.</p> <p>M. Rizwan ul Haque, JD (D&P) Email: rizwan.haque@pitb.gov.pk 13th Floor, Arfa Software Technology Park, 346-B, Ferozpur Road, Lahore, Pakistan</p>
5.	2.2.2	<p>Pre-Bid Meeting: DATE & TIME: 08 August, 2023 @ 11:00 AM VENUE: 13TH FLOOR, ARFA SOFTWARE TECHNOLOGY PARK (ASTP), 346-B, FERAZEPUR ROAD, LAHORE.</p>
6.	2.3.8	The number of bidding documents to be completed and returned is in one original and one copy.
C. Bid Price, Currency, Language and Country of Origin		
7.	2.3.1	<i>Language of the Bid:</i> English
8.	2.3.4	The price quoted shall be in PAK RUPEES inclusive of all applicable taxes and duties.
9.	2.3.4 & 2.3.9	The price quoted shall be fixed in PAK RUPEES inclusive of all applicable taxes and duties. The Bidders must adhere to the minimum wage rate (notified by Labour & Human Resource Department) and all applicable taxes (imposed by FBR/PRA/any other government organization) while preparing financial bid.
D. Preparation and Submission of Bids		
10.	2.1.1	<p>Bid shall be submitted to:</p> <p>PUNJAB INFORMATION TECHNOLOGY BOARD (PITB) 13TH 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</p>
11.	2.4.2	The deadline for Bid submission is:

		15 August, 2023 @ 12:00 PM
12.	2.5.1	Time, date/ Month/ Year, and place for Bid opening. 15 August, 2023 @ 12:30 PM
13.	2.6.2	Amount of Performance Guarantee is: <u>10% OF THE CONTRACT AMOUNT</u>
14.	2.3.7	Bid validity period after opening of the Bid is: <u>NINETY (90) DAYS.</u>
E. Opening and Evaluation of Bids		
15.	2.5.1	The Bid opening shall take place at: 15 August, 2023 @ 12:30 PM PUNJAB INFORMATION TECHNOLOGY BOARD (PITB) 13TH FLOOR, ARFA SOFTWARE TECHNOLOGY PARK (ASTP), 346-B, FERROZPUR ROAD, LAHORE, PAKISTAN PHONE: (+ 92) (42) (99000000), FAX: (+92) (42) (99232123) URL: WWW.PITB.GOV.PK
16.	2.3.4	The currency that shall be used for Bid evaluation is: PAK RUPEES
F. Bid Evaluation Criteria		
17.	2.5.8	Criteria to Bid evaluation is presented below:

EVALUATION CRITERIA:

PASS MARKS: A technically eligible bidder, based on conditions listed in this document, not meeting the 60% pass marks limit will be rejected in Technical Evaluation, and its sealed / unopened Financial Proposal shall be returned back. All bidders scoring greater than or equal to 60% of the marks will be accepted in technical proposal, and their financial bids will be opened.

PROVISO: Provided that if NONE or ONLY ONE (single) bidder exceeds the 60% pass mark, then the Purchaser SHALL decrease the Pass Mark limit to 50%. In other words, if TWO or more bidders exceed 60%, then the Pass Mark will NOT be decreased to 50%. If Pass Marks are decreased to 50%, then ALL bidders with scores greater than or equal to 50% shall be considered EQUALLY as approved in the Technical Evaluation, and their Financial Bids shall be opened.

The Bidders against each lot who have duly complied with the Eligibility/Qualification and Evaluation Criteria will be eligible for further processing. The Bids which do not conform to the Technical Specifications or Bid conditions or the Bids from the Bidders without adequate capabilities for supply and maintenance / warranty services will be rejected. The Eligible/Technically Qualified Bidders will be considered for further evaluation.

The Technical proposals shall be evaluated by the technical evaluation committee in the light of following evaluation criteria:

Category	Description	Requirement
Legal (Mandatory)	Valid Income Tax Registration *Registered for at least last Three (03) Years;	Required
	Valid General Sales Tax Registration (Status = Active with FBR/Relevant Authorities)	
	Affidavit (as per form 8.6) on non-judicial Stamp Paper of Rs. 100/- or Official Letter-head: <ul style="list-style-type: none"> (i) The firm is not blacklisted from any Department. (ii) The documents/photocopies provided with Bid are authentic. In case of any fake/bogus document found at any stage. They shall be black listed as per Rules / Laws. (iii) Affidavit for correctness of information. (iv) Contractor/firm is not blacklisted or subject to any pending litigation in this regard, with any Government or Public Department. (v) The firm comply with Section – III “Technical Specifications”, and Section – VII “Schedule of Requirements” of the Bidding Document. 	
Technical (Mandatory)	<ul style="list-style-type: none"> (i) The Bidder must submit Manufacturer Authorization Letter issued from Schneider along with bid for back-to-back services support and availability of parts from the OEM. (ii) The Bidder must provide Partner Certificate/Authorization of Fike and Schneider. (iii) The Bidder must be Trained Service Partner of Schneider. Verifiable documentary evidence is required with Technical Proposal. (iv) The Bidder must have its own Manpower for Electrical and HVAC to manage services. List of above mentioned-technical resources (team) is to be provided with the Technical Proposal. (v) The Bidder must have valid ISO certified i.e., ISO/IEC 27001:2013, ISO 9001:2015, ISO 45001:2018 etc. 	

Category	Description	Parameter	Points
Financial Strength	Average Annual turnover verifiable from Audited financial statement of last three (03) Years. (Max Points 100)	50-60 million PKR	60 points
		60.1-67 million PKR	70 points
		67.1 million and above	100 points
Relevant Experience	Project of similar nature i.e., Support and Maintenance Services of Datacenter Facility equipment including HVAC, Electrical Panels, UPS, fire control systems etc. during last three (03) years (Verifiable through Purchase orders / Contracts) (Max Points 100)	34-42 million PKR	60 points
		42.1-50 million PKR	70 points
		50.1 million and above	100 points

Total Points: 200

Qualification Points: 120

G. Award of Contract

24.	2.6.5	Percentage for quantity increase or decrease is: <u>FIFTEEN (15%) PERCENT</u> . However, increase or decrease in quantities beyond 15% will be mutually agreed between the Procuring Agency and the Awardee prior to the Contract.
25.	2.6.2	The Performance Guarantee shall be: <u>10% OF THE CONTRACT AMOUNT</u>
26.	2.6.2	<p>The Performance Security (or guarantee) shall be in the form of: Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker’s cheque;</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. Performance security shall not be acceptable with any validity less than the prescribed time period.</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> <p><u>Penalty Charges on Late Submission of Performance Security:</u> If the Contractor delays provision of Performance Security fifteen (15) days of the issuance of notification of award / Letter of Intent (LOI) from the Procuring Agency, a sum of money @0.25% of the total Performance Security, for every day beyond fifteen (15) days of the issuance of notification of award / Letter of Intent (LOI) from the Procuring Agency, will be deducted as Penalty Charges. Provided that total amount of Penalty Charges so deducted shall not exceed, an amount equal to the value of Bid Security.</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 Service Provider, 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 Service Provider 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 Service Provider is required to supply to the Procuring Agency under the Contract.
- (d) "The Services" means those services OPERATIONS & MAINTENANCE (O&M) SUPPORT SERVICES WITH WARRANTIES FOR PITB DATACENTER and other such obligations of the Service Provider 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 Services, as named in SCC.
- (h) "The Procuring Agency's country" is the country named in SCC.
- (i) "The Service Provider" means the Bidder or firm supplying the Services under this Contract.
- (j) "The Project Site," where applicable, means the place or places named in SCC.
- (k) "Day" means calendar day.

- 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** 3.1. All Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules, as further elaborated in the SCC.
[where applicable]
- 3.2. The origin of Services is distinct from the nationality of the Service Provider. In any case, the requirements of rules 10 & 26, PPR-14, shall be followed.
- 4. Standards** 4.1. The services supplied under this Contract shall conform to the standards mentioned in the Technical Specifications/work plan/deputation plan.
- 5. Use of Contract Documents and Information; Inspection and Audit by the procuring agency.** 5.1. The Service Provider shall not, without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Service Provider 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 Service Provider 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 Service Provider's performance under the Contract if so required by the Procuring Agency.
- 5.4. The Service Provider shall permit the Procuring Agency to inspect the Service Provider's accounts and records relating to the performance of the Service Provider and to have them audited by auditors appointed by the donors, if so required by the donors.
- 6. Performance Guarantee** 6.1. **Within fifteen (15) 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. Performance security shall not be acceptable with any validity less than the prescribed time period.

Penalty Charges on Late Submission of Performance Security:

If the Contractor delays provision of Performance Security fifteen (15) days of the issuance of notification of award / Letter of Intent (LOI) from the Procuring Agency, a sum of money @0.25% of the total Performance Security, for every day beyond fifteen (15) days of the issuance of notification of award / Letter of Intent (LOI) from the Procuring Agency, will be deducted as Penalty Charges. Provided that total amount of Penalty Charges so deducted shall not exceed, an amount equal to the value of Bid Security.

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

6.3. 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) Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker's cheque.**

6.4. The performance guarantee will be discharged by the Procuring Agency and returned to the Service Provider not later than thirty (30) days following the date of completion of the Service Provider'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.

7. Incidental material

[If required and decided by the Procuring Agency]

7.1. The Service Provider may be required to provide any of the incidental material if any, specified in SCC:

The service provider must maintain an auditable stock of critical parts (list attached at ANNEX- C) or equipment relating to mentioned equipment under contract within three (03) months after the award of Letter of Intent (LOI)/ Award Notification for the immediate resolution through replacement, in case of any incident. The procuring agency's designated staff shall verify the stock maintained by the Contractor on quarterly basis. The critical parts list (as mentioned above) contains

the major parts and the rest of the related equipment parts availability as per need and in compliance to SLA, is the responsibility of the contractor.

8. Payment

8.1. The method and conditions of payment to be made to the Service Provider under this Contract shall be specified in SCC.

8.2. The Service Provider's request(s) for payment shall be made to the Procuring Agency in writing, accompanied by an invoice describing, as appropriate, Services performed, and by documents submitted and upon fulfillment of other obligations stipulated in the Contract.

8.3. 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 Service Provider, provided the work is satisfactory.

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

9. Prices

9.1. Prices charged by the Service Provider and Services performed under the Contract shall not vary from the prices quoted by the Service Provider in its Bid, with the exception of any price adjustments authorized in SCC {mechanism and formula to be decided by the procuring agency}.

10. Change Orders

10.1. The Procuring Agency may at any time, by a written order given to the Service Provider pursuant to GCC Clause 11, make changes within the general scope of the Contract, only if required for the successful completion of the job.

10.2. If any such change causes an increase or decrease in the cost of, or the time required for, the Service Provider's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price, or both, and the Contract shall accordingly be amended. Any claims by the Service Provider for adjustment under this clause must be asserted within thirty (30) days from the date of the Service Provider'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.

11. Contract Amendments

11.1. Subject to GCC Clause 10, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

12. Assignment

12.1. The Service Provider 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.

13. Sub-contracts

13.1. The Service Provider 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 Service Provider from any liability or obligation under the Contract.

13.2. Subcontracts must comply with the provisions of GCC Clause 12.

14. Delays in the Service Provider's Performance

14.1. Performance of Services shall be made by the Service Provider in accordance with the Schedule of Requirements/Work Plan/ Deputation Plan as prescribed by the Procuring Agency in Section VII.

14.2. If at any time during performance of the Contract, the Service Provider or its subcontractor(s) should encounter conditions impeding timely performance of Services, the Service Provider 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 Service Provider's notice, the Procuring Agency shall evaluate the situation and may at its discretion extend the Service Provider's-time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

14.3. Except as provided under GCC Clause 17, a delay by the Service Provider in the performance of its delivery obligations shall render the Service Provider liable to the imposition of liquidated damages.

15. Liquidated Damages

15.1. Subject to GCC Clause 17, if the Service Provider fails to provide the Services as per requirement/ 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/penalties, a sum equivalent to the percentage specified in Service Level Agreement (SLA) – Annexure B, 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 16 along with other remedies available under PPR-14.

16. Termination for Default

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

- (a) if the Service Provider fails to deliver any or all of the service within the period(s) specified in the Contract, or within any

extension thereof granted by the Procuring Agency pursuant to GCC Clause 14;

- (b) if the Service Provider fails to perform any other obligation(s) under the Contract; or
- (c) if the Service Provider, 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 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

16.2. In the event the Procuring Agency terminates the Contract in whole or in part, pursuant to GCC Clause 16.1, the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Services similar to those undelivered, and the Service Provider shall be liable to the Procuring Agency for any excess costs for such similar Services. However, the Service Provider shall continue performance of the Contract to the extent not terminated.

17. Force Majeure

17.1. Notwithstanding the provisions of GCC Clauses 14, 15, and 16, the Service Provider 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.

17.2. For purposes of this clause, "Force Majeure" means an event beyond the control of the Service Provider and not involving the Service Provider'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 Service Provider, 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 Service Provider 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 Service Provider 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.

- 18. Termination for Insolvency** 18.1. The Procuring Agency may at any time terminate the Contract by giving written notice to the Service Provider if the Service Provider becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Service Provider, 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.
- 19. Termination for Convenience** 19.1. The Procuring Agency, by written notice sent to the Service Provider, 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 Service Provider under the Contract is terminated, and the date upon which such termination becomes effective.
- 19.2. The Services that are complete and ready for shipment (if applicable) within thirty (30) days after the Service Provider's receipt of notice of termination shall be accepted by the Procuring Agency on the Contract terms and prices. For the remaining Services, 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 Service Provider an agreed amount for partially completed Services and for materials and parts previously procured by the Service Provider.
- 20. Resolution of Disputes** 20.1. After signing the contract or issuance of purchase order, The Procuring Agency and the Service Provider 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.
- 20.2. If, after thirty (30) days from the commencement of such informal negotiations, the Procuring Agency and the Service Provider 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.
- 21. Governing Language** 21.1. 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.

- 22. Applicable Law** 22.1. The Contract shall be interpreted in accordance with the laws of Punjab (Pakistan) unless otherwise specified in SCC.
- 23. Notices** 23.1. 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.
- 23.2. A notice shall be effective when delivered or on the notice's effective date, whichever is later.
- 24. Taxes and Duties** 24.1. Service Provider shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Services to the Procuring Agency.
- 25. Change in minimum wage rate** 25.1. If during the continuation of the service contract, minimum wage rate is revised by the competent authorized forum, then the ongoing contract shall be revised as per percentage increased in minimum wages declared for such category, by the competent authority, but with mutual consent of the procuring agency and the Contractor
- 26. Contract Period and Extension in Contract period** The contract will be for **three (03) years**. The contract period and extension in the contact period shall be the discretion of the procuring agency and the contractor has no right to claim further extension as a matter of right in the contract.

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. Performance Guarantee (GCC Clause 6)

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**

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. Performance security shall not be acceptable with any validity less than the prescribed time period.

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.

Penalty Charges on Late Submission of Performance Security:

If the Contractor delays provision of Performance Security fifteen (15) days of the issuance of notification of award / Letter of Intent (LOI) from the Procuring Agency, a sum of money @0.25% of the total Performance Security, for every day beyond fifteen (15) days of the issuance of notification of award / Letter of Intent (LOI) from the Procuring Agency, will be deducted as Penalty Charges. Provided that total amount of Penalty Charges so deducted shall not exceed, an amount equal to the value of Bid Security.

3. Incidental Materials (GCC Clause 7)

GCC 7.1—Incidental materials to be provided are:

The service provider must maintain an auditable stock of critical parts (list attached at ANNEX- C) or equipment relating to mentioned equipment under contract within three

(03) months after the award of Letter of Intent (LOI)/ Award Notification for the immediate resolution through replacement, in case of any incident. The procuring agency's designated staff shall verify the stock maintained by the Contractor on quarterly basis. The critical parts list (as mentioned above) contains the major parts and the rest of the related equipment parts availability as per need and in compliance to SLA, is the responsibility of the contractor.

[Selected material covered under GCC Clause 7 and/or other should be specified with the desired features. The price quoted in the Bid price or agreed with the selected Service Provider shall be included in the Contract Price.]

4. Payment (GCC Clause 8)

GCC 8.1—The method and conditions of payment to be made to the Service Provider under this Contract shall be as follows:

Payment for Services provided: *Payment to the contractor would be made on the quarterly basis on the submission of signed and verified (by the Datacenter Team) maintenance reports for the specified quarter.*

Payment may be made in Pak. Rupees in the following manner: *(to be decided by the Procuring Agency)*

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

5. Prices (GCC Clause 9)

GCC 9.1—Prices shall be fixed and shall not be adjusted.

6. Liquidated Damages (GCC Clause 15)

GCC 15.1—Applicable rate: **As per the Penalty Mechanism in Service Level Agreement (SLA) – Annexure B**

Maximum deduction: **ten (10) percent of the Contract Price**

7. Resolution of Disputes (GCC Clause 20)

GCC 20.2—The dispute resolution mechanism to be applied pursuant to GCC Clause 20.2 shall be as follows:

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

8. Governing Language (GCC Clause 21)

GCC 21.1—The Governing Language shall be: **ENGLISH**

9. Applicable Law (GCC Clause 22)

GCC 22.1-The Contract shall be interpreted in accordance with the laws applicable in the jurisdiction of the province of Punjab (Pakistan):

10. Notices (GCC Clause 23)

GCC 23.1—Procuring Agency’s address for notice purposes: **PROCURING AGENCY ADDRESS**

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

Section-VII. Schedule of Requirements/Work Plan/ Deputation Plan

May be read in compliance to technical specifications of the equipment and installation infrastructure, scope of services and attached SLA at ANEXURE-B.

Section-VIII: Sample Forms

Notes on the Sample Forms

The Bidder shall complete and submit with its Bid the **Bid Form** and **Price Schedules** pursuant to ITB Clause 2.2.3 & 2.3.4 and in accordance with the requirements included in the Bidding documents.

When requested in the Bid Data Sheet, the service provider should provide the **Bid Security**, either in the form included hereafter or in another form acceptable to the Procuring Agency, pursuant to ITB Clause 2.3.7

The **Contract Form**, when it is finalized at the time of contract award, should incorporate any corrections or modifications to the accepted Bid resulting from price corrections pursuant to ITB Clause 2.5.6 and GCC Clause 17, acceptable deviations e.g., payment schedule pursuant to GCC 16, The Price Schedule and Schedule of Requirements, deemed to form part of the contract, should be modified accordingly.

The **Performance Guarantee** and **Bank Guarantee for Advance Payment** forms should not be completed by the service provider at the time of their Bid preparation. Only the successful Bidder will be required to provide Performance Guarantee and bank guarantee for advance payment in accordance with one of the forms indicated herein or in another form acceptable to the Procuring Agency and pursuant to GCC Clause 7.3 and SCC 10, respectively.

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 Financial 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, in conformity with the said Bidding documents for the sum of *[total Bid amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, specified in the Schedule of Requirements.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to _____ 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 2.3.7 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) Complete bidding document (without filling) signed and stamped by the bidder
- b) all the forms relevant to the technical and financial bids (clearly indicated on each form)
- c) All the required documents establishing eligibility of bidders/goods shall be made part of the bid.

- d) 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) Complete bidding document (without filling) signed and stamped by the bidder
- 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) Copy of bid security form along with copy of financial instruments *[to be decided by the procuring agency i.e. Bank Guarantee / Bank call-deposit (CDR) / Demand Draft (DD) / Pay Order (PO) or Banker's cheque]* valid for () Days, beyond the validity of Bid in the manner as prescribed on the bid security form **8.10**.
- d) Any other document required by the procuring agency not inconsistent with PPR-14.

Financial 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) Price schedule / financial form (as per **form 8.9**) to be reproduced on the letter head of the bidder duly signed and stamped.
- c) Original Bid security form (as per **form 8.10**) along with Original financial instrument *[to be decided by the procuring agency i.e. Bank Guarantee / Bank call-deposit (CDR) / Demand Draft (DD) / Pay Order (PO) or Banker's cheque]* valid for () Days, beyond the validity of Bid.
- d) *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 _____

1.2 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 Service Provider shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the Service Provider and for each member of a Joint Venture}.

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

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

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

Page _____ of _____ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. 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 Service Provider.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

8.3. 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 (Last 3 years) – If applicable

Yes	No
-----	----

b) Details of Experience (Last ----- Years) – If applicable

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

c) Staff Detail and last month Payroll – If applicable

Yes	No
-----	----

8.4. General Information Form
(For each Lot separately)

[To be signed & stamped by the Bidder and reproduced on the letter head. 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 & Professional Tax Certificate

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

8.5. 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 has not been blacklisted by any Department.
- (ii) The documents/photocopies provided with Bid are authentic. In case, any fake/bogus document was found at any stage, the firm shall be blacklisted as per Law/ Rules.
- (iii) Affidavit for correctness of information.
- (iv) Contractor/firm is not blacklisted or subject to any pending litigation in this regard, with any Government or Public Department
- (v) The firm comply with Section – III “Scope of Services/Specifications”, and Section – VII “Schedule of Requirements” of the Bidding Document.

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

Signed by an authorized Officer of the company

Title of Officer: _____

Name of Company: _____

Date: _____

8.6. Performance Guarantee Form

(For each Lot separately)

To,
[name and address of the Procuring Agency]

WHEREAS (Name of the Contractor/ Service Provider) _____ hereinafter called "the Contractor" has undertaken, in pursuance of "INVITATION TO BID FOR THE "PROVISION 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.

[NAME OF GUARANTOR]
Signature _____
Name _____
Title _____
Address _____
Seal _____
Date _____

8.7. Technical Bid Form
(For each Lot separately)

- *Technical Proposal must be prepared in conjunction Section – III (Technical Specifications/Scope of Services), SECTION – IV (Schedule of Requirements/Work Plan/ Deputation Plan) and Annexures to this Bidding Document. If any deviations are needed, it must be mentioned/quoted, separately in the Technical Proposal.*
- *To be reproduced on the letter head, signed & stamped by the Bidder.*
- *To be attached with Technical Bid.*

Sr. No.	Description	Quantity	Specifications dimensions

Stamp & Signature of Bidder _____

8.8. 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 Service Provider] of [city and country of Service Provider] (hereinafter called “the Service Provider”) on the other part:

WHEREAS the Procuring Agency invited Bids for certain services, viz., [brief description of services] and has accepted a Bid by the Service Provider for the supply of those 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 Scope of Services/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 Bid document
3. In consideration of the payments to be made by the Procuring Agency to the Service Provider as hereinafter mentioned, the Service Provider hereby covenants with the Procuring Agency to provide the services in accordance with the provisions of the Contract and as required under Section III – Scope of Services / Specifications, and Section VII Schedule of Requirements/Work Plan/ Deputation Plan.
4. The Procuring Agency hereby covenants to pay the Service Provider in consideration of the provision of services, 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 Service Provider)

8.9. Financial Bid Form/Price Schedule ***(For each Lot separately)***

- *Financial Proposal must be prepared in conjunction Section – III (Technical Specifications/Scope of Services), SECTION – IV (Schedule of Requirements/Work Plan/Deputation Plan) and Annexures to this Bidding Document. 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.*

MINIMUM WAGE RATE SHOULD BE STRICTLY ADHERED

(A) HVAC Equipment (W/P)											
Sr.No	Item	Description	Manufacturer	Product.no.	Qty	Year-1 Cost		Year-2 Cost		Year-3 Cost	
						Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)
1	Chiller	120kw	UNIFLAIR	TRAC1421A	3						
2	Pumps	10HP	KSB	JL1090	3						
3	Stutz	15kw	STULZ	150 CW	4						
4	In Row RC	-	APC	ACRC301S	7						
5	In Row RP	43kw	APC	ACRPS02	4						
6	Ceiling Fan	Mini fan for controlling humidity	-	-	5						
7	Temperature Sensors	For sensing change in temperature	-	-	18						
8	Humidity Sensors	For sensing change in humidity level	-	-	45						
9	Ceiling Casete unit	Ceiling Unit for room Cooling	Midea	-	3						
TOTAL (A)						YEAR 1 - TOTAL	A1	YEAR 2 - TOTAL	A2	YEAR 3 - TOTAL	A3
						A = A1+ A2 + A3					
(B) Electrical Equipment (W/P)											
Sr.No	Item	Description	Manufacturer	Product.no.	Qty	Year-1 Cost		Year-2 Cost		Year-3 Cost	
						Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)
1	Netbotz	Sensor Monitoring	APC	NBRK0570, NRPD0150	8						
2	Electrical Panel	Main Panel-1 MCC-2	PRISMA	-	3						
3	AVR	300KVA	ORTEA	-	1						
4	UPS	250KVA	APC	SY125K500DR-	2						
5	PDU	Power Distribution	SCHNEIDER	-	90						
6	PDPM	Power Distribution & Power Management	SCHNEIDER	Pdpm-277H	4						
7	Motion Sensor	For sensing any motion in camera view	-	-	15						
8	UPS Battery	90 Amp Lead Battery- Needs Replacement	YUASA	-	6						
TOTAL (B)						YEAR 1 - TOTAL	B1	YEAR 2 - TOTAL	B2	YEAR 3 - TOTAL	B3
						B = B1+ B2 + B3					
(C) Fire Detection & Suppression Equipment											
Sr.No	Item	Description	Manufacturer	Product.no.	Qty	Year-1 Cost		Year-2 Cost		Year-3 Cost	
						Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)
1	Vesda Device	Xtralis(Very Early Smoke Detector)	Cheetah Fike	10-068	7						
2	Smoke Sensors	Senses smoke	Cheetah Fike	-	72						
3	Vesda Nozzles	Xtralis	Cheetah Fike	-	58						
4	Vesda Panel	Xtralis	Cheetah Fike	-	2						
5	Fire Buzzer	Buzzes alarm in the event of any detected hazard	Cheetah Fike	-	7						
6	Fire Extinguisher Cylinders	FM200	FENWAL	-	8						
TOTAL (C)						YEAR 1 - TOTAL	C1	YEAR 2 - TOTAL	C2	YEAR 3 - TOTAL	C3
						C = C1+ C2 + C3					
(D) Access Control System											
Sr.No	Item	Description	Manufacturer	Product.no.	Qty	Year-1 Cost		Year-2 Cost		Year-3 Cost	
						Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)
1	Card +Biometric		BIO Class		2						
2	RFID Reader				20						
3	Access Controller with allied infra. & management Software	Andover Continuum (ACX Series)			4						
4	Magnetic Lock				14						
TOTAL (D)						YEAR 1 - TOTAL	D1	YEAR 2 - TOTAL	D2	YEAR 3 - TOTAL	D3
						D = D1+ D2 + D3					
(E) DCIM & CCTV Software											
Sr.No	Item	Description	Manufacturer	Product.no.	Qty	Year-1 Cost		Year-2 Cost		Year-3 Cost	
						Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)
1	DCIM Software	DCIM, Structureware software and hardware	Shneider		1						
2	IP Based CCTV Cameras with NVR and Software	Indoor Fixed Mini Dome POE, 24V Camera Standard 0.5MP Resolution 30FPS Day/Night DC, Auto Iris lens.	Pelco		22						
3		PTZ Camera with H.264 compression 23X flush/in-ceiling environmental mount, black back			2						
TOTAL (E)						YEAR 1 - TOTAL	E1	YEAR 2 - TOTAL	E2	YEAR 3 - TOTAL	E3
						E = E1+ E2 + E3					
(F) On Site Level 1 Resident Engineers to work in Shifts											
Sr.No	Item	Description	Manufacturer	Product.no.	Qty	Year-1 Cost		Year-2 Cost		Year-3 Cost	
						Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)	Unit Rate /Year (incl. of all taxes if any)	Total Rate /Year (incl. of all taxes if any)
1	Resident Engineer	Working in shifts HVAC-1 / Electrical-1 / 8 hours shift	-	-	5						
2	Resident Supervisor	8 hours shift	-	-	1						
3	Janitorial Staff	8 hours shift	-	-	1						
TOTAL (F)						YEAR 1 - TOTAL	F1	YEAR 2 - TOTAL	F2	YEAR 3 - TOTAL	F3
						F = F1+ F2 + F3					
YEARLY COST						G	G = A1+B1+C1+D1+E1+F1	H	H = A2+B2+C2+D2+E2+F2	I	I = A3+B3+C3+D3+E3+F3
GRAND TOAL (P)						P = G + H + I					

P = Total Bid value (against which a Bid shall be evaluated) in figure.
P = 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 minimum wage rate (as notified by the government) or excluding applicable taxes and duties shall straight away be rejected.

Stamp & Signature of Bidder _____

8.10. Bid Security Form
(For each Lot separately)

- *To be reproduced on the letter head, signed & stamped by the Bidder.*
- *To be attached with Financial Bid.*
- *Copy of the Bid security instrument must be submitted with the technical proposal, and the original Bid Security instrument must be included within the Financial Proposal envelope*

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 services]* (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 of the bank]

Section IX- Check List

(For each Lot separately)

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

The provision of this checklist is essential prerequisite along with submission of tenders (with technical proposal).

Sr. #	Detail	Responsive	Non-responsive
1	Fixed Bid Security of estimated cost of services given by the Procuring Agency. Copy of the Bid security must be submitted with the technical proposal, and the original Bid Security instrument must be included within the Financial Proposal envelope.		
2	All required samples (if demanded) have been submitted to <i>[name of the Procuring Agency/Department/Team]</i> .		
3	Copy of Registration / Incorporation Certificate		
4	Active Registration with Income Tax Authorities (National Tax Number NTN), as per the Evaluation Criteria		
5	Copy of active Registration with Sales Tax Authorities (STRN), as per the Evaluation Criteria		
6	Copy of active Registration (Professional Tax Certificate), as per the Evaluation Criteria		
7	Relevant Past Experience Documents, as per the Evaluation Criteria		
8	Technical Bid Form (as per form 8.7 of Bidding documents) on letter head of the firm duly signed and stamped.		
9	Financial Bid Form (as per form 8.9 of Bidding documents) on letter head of the firm, duly signed and stamped.		
10	Bid Security Form (as per form 8.10 of Bidding documents) on letter head of the firm, duly signed and stamped.		
11	General Information Form (as per form 8.4 of Bidding documents) on letter head of the firm duly signed and stamped.		
12	Affidavit (as per form 8.5) on non-judicial Stamp Paper of Rs. 100/- or Official Letter-head: <ul style="list-style-type: none"> (i) The firm is not blacklisted from any Department. (ii) The documents/photocopies provided with Bid are authentic. In case of any fake/bogus document found at any stage. They shall be black listed as per Rules / Laws. (iii) Affidavit for correctness of information. (iv) Contractor/firm is not blacklisted or subject to any pending litigation in this regard, with any Government or Public Department. (v) The firm comply with Section – III “Scope of Services/Specifications”, and Section – VII “Schedule of Requirements” of the Bidding Document. 		
13	Authorization, Certification, and Manpower requirements, as per the Evaluation Criteria		

Stamp & Signature of Bidder _____

ANNEXURE - A
DETAILED BOQ OF RELEVANT INSTALLATIONS

PART - 1

BOQ

Sr #	flexible Copper Bus Bars	Manufacturer	Part No.	Qty	Unit
1	Electrical Panel				
1.1	LV Electrical Panel - Type Tested	Schneider Electric	Prisms Plus	1	Nos.
1.2	Flexible Copper Bus Bars				
1.3	Remote Monitoring through TCP/IP, Touch Screen and Energy Analyzers				
1.4	DCIM Connectivity to NOC screen				
1.5	Two Mains incoming circuits with bus coupling, All breakers above 500A should be ACB, 50KA, all breakers above 32A should be MCCB, 50KA, all breakers to be 4 Poles or 3 pole as mentioned in Technical Part of RFP				
1.6	2 x 240KW UPS incoming & outgoing through ACB for POD-1 & 2				
1.7	2 x 120KW UPS incoming & outgoing through ACB for POD-3				
1.8	MCC for POD-1, 2 & 3: AC outgoing through MCCB, ACs to be powered through both sources	Schneider Electric	Prisma Plus	1	Nos.
1.9	Lighting DB	Schneider Electric	Disbo Extra	1	Nos.
2	UPS System with Non Hotswappable Batteries				
2.1	Network Monitoring Card APC by Schneider	APC by Schneider	SYBFF	2	
2.2	3-Pole Circuit Breaker, 400A, T5 Type for APC by Schneider	APC by Schneider	Symmetra PX250/500kW PD3P400AT5B	4	
2.3	APC Symmetra PX 125kW Scalable to 500kW with APC by Schneider Maintenance Bypass and Distribution, No Batteries	APC by Schneider	SY125K500DR-PDNB	1	
2.4	Adaptor for T5 Type Circuit Breaker, 3 Pole	APC by Schneider	PD3PADAPT5	2	
2.5	APC Symmetra PX 125kW Scalable to 500kW with APC by Schneider Maintenance Bypass Left, Distribution & No Batteries	APC by Schneider	SY125K500DL-PDNB	1	
2.6	APC Symmetra PX 500kW Battery Breaker Enclosure with Fuse Kit for Third Party Batteries	APC by Schneider	SYBBE50DK500D	2	
2.7	APC Symmetra PX 25kW Power Module, 400/480V	APC by Schneider	SYPM25KD	10	
2.8	EMPTY BATI. CUBICLE 4 SHELV 1400 STD	APC by Schneider	OM-G7TAB3	1	
2.9	EMPTY BATT CUBICLE 4 SHELV 1000 STD	APC by Schneider	OM-G7TA B2	1	
2.10	EMPTY BATT CUBICLE 4 SHELV 1400 STD	APC by Schneider	OM-G7TAB3	1	
2.11	EMPTY BATT CUBICLE 4 SHELV 1000 STD	APC by Schneider	OM-G7TAB2	1	

2.12	PRODUCT SYMMETRA PX SYPX 250KW - ONE BLOCK OF YUASA SWL2500 BATTERY	YUASA	SWL2500	192	
2.13	PRODUCT SYMMETRA PX SYPX 250KW - BATTERY ISOLATION BOX FOR 250A WITH 2 FUSES AND 2 LINKS	APC by Schneider		4	
3.0	Electrical PDU for POD 1 & 2				
3.1	Electrical PDU for POD 1 & 2 Electrical PDU's for POD 1 & 2 with circuit breaker level monitoring and connectivity with DCIM	APC by Schneider	PDPM277H	4	Nos.
3.2	3x1 Pole 3 Wire 32A Breaker Modules with 3x6 sq mm size of cables to connect with Rack PDU	APC by Schneider	PDM1332IEC-3P	40	
3.3	APC Modular IT Power Distribution Cable Extender 3 Wire 32A IEC309 120cm	APC by Schneider	PDX332IEC-120	10	Nos.
3.4	APC Modular IT Power Distribution Cable Extender 3 Wire 32A IEC309 240cm	APC by Schneider	PDX332IEC-240		Nos.
3.5	APC Modular IT Power Distribution Cable Extender 3 Wire 32A IEC309 480cm	APC by Schneider	PDX332IEC-480	6	Nos.
3.6	3 Pole 5 Wire 32A Breaker Modules with 5x6mm size of cables to connect with Rack PDU	APC by Schneider	PDM3532IEC-140	4	Nos,
4.0	Power Cabling				
4.1	3x 1x 240 sq rnm per phase from Riser to Electrical Panel	Top Cable, Spain	H07RN-F	1350	Mtr
4.2	1 x 1 x 240 sq mm for neutral from Riser to Electrical Panel	Top Cable, Spain	HO7RN-F	150	Mtr
4.3	1 x 1 x 24D sq mm per phase for UPS Incoming from Electrical Panel and Outgoing to Electrical PDU	Top Cable, Spain	HO7RN-F	200	Mtr
4.4	1 x 1 x 240 sq mrn for Neutarl for UPS Incoming from Electrical Panel and Outgoing to Electrical PDU	Top Cable, Spain	1-107RN-F	100	Mtr
4.5	2 x 1 x 70 sq mm for Grounding from riser to LV panel	Top Cable, Spain	1-107RN-F	1000	Mtr
4.6	1 x 1 x 70 sq mm for UPS Grounding	Top Cable, Spain	HO7RN-F	500	Mti-
4.7	16 sq mm Score for AC's in Data Center	Top Cable, Spain	1-107RN-F	200	Mtr
4.8	6 sq mm 5Core for AC's in Data Center	Top Cable Spain	I-107RN-F	300	Mtr
4.9	6 sq mm 5Core for AC's in Electrical Rooms, UPS Room & Staging	Top Cable, Spain	HO7RN-F	250	Mtr
4.10	4 sq mm 3Core for MDF Racks	Top Cable, Spain	I-107RN-F	200	Mtr
4.11	32A Three Pin Industrial Sockets for MDF Racks	Clipsal		8	Nos.
4.12	2.5 sq mm 3Core for ancillary equipment	Top Cable, Spain	HO7RN-F	250	Mtr
4.13	1.5 sq mm for lights	Local		10	Coils
4.14	Earthling Bus Bars	Local		6	Nos. 62,6 53.5 0
4.15	Wiring Accessories	Local		1.	LS
4.16	Laying & Termination	Local		1	Job
7	Power, Communication and Chilled Water Trays				
7.1	Galvanized Cable Tray far Power and Cooling	Local		250	Mtr
7.2	Mesh Tray for Data Cabling	Wibe		30	Mtr

7.3	Overhead Power Cable Trough for POD-1 & 2				
7.4	Cable Ladder 6" (15cm) Wide w/Ladder Attachment Kit (AR8166ABLK)	APC by Schneider	AR8164ABLK	2	Nos.
7.5	Cable Ladder 12" (30cm) Wide w/Ladder Attachment Kit (AR8166ABLK)	APC by Schneider	AR8165ABL K	2	Nos.
7.6	Cable Trough, Open Bottom, 600mm	APC by Schneider	AR8560		Nos.
7.7	Cable Trough, 600mm	APC by Schneider	AR8561	44	Nos.
7.8	Cable Trough, 750mm	APC by Schneider	AR8571	4	Nos.
7.9	Cable Trough, Open Bottom, 300mm	APC by Schneider	AR8580	12	Nos.
7.10	Overhead Data Cable Trough for POD-1 & 2	APC by Schneider			
7.11	Data Cable Partition, NetShelter, 600mm Wide	APC by Schneider	AR8162ABLK	44	Nos.
7.12	Data Cable Partition, NetShelter, 600mm Wide, pass-through	APC by Schneider	AR8163ABLK		Nos.
7.13	Data Cable Partition, NetShelter, 750mm Wide	APC by Schneider	AR8172BLK	4	Nos.
7.14	Data Cable Partition, NetShelter, 750mm Wide, pass-through	APC by Schneider	AR8173BLK	4	Nos.
7.15	InRow Bridge Partition, Data Cable 300 MM	APC by Schneider	ACAC1000S	8	Nos.
7.16	InRow Bridge Partition, Data Cable 600 MM	APC by Schneider	ACAC10010	4	Nos.
7.17	Cable Partition, 300mm	APC by Schneider	AR8184	4	Nos.
7.18	Overhead Fiber Runner for Fiber from MDF to Racks for POD-1 & 2		Conteg	1	Nos.
8	Precision Air Conditioners				
8.1	InRow type chilled water unit capacity 42 kw, floor standing complete in with all accessories.	APC by Schneider	ACRP502	4	Nos
8.2	InRow type chilled water unit capacity 15 kw, floor standing complete with all accessories.	APC by Schneider	ACRC301S	8	Nos
8.3	Chilled water distribution Unit having 10-12 chilled water circuits, Bottom/Top mains in-coming and out-going distribution piping option	APC by Schneider	ACFD12-B	2	Not
9	Headers for Cooling system				
9.1	Headers for cooling system			3	Nos
9.2	CDU stands made of steel.			2	Nos
9.3	PEX piping size 1-1/4" dia between small capacity Inrow units to CDU, with insulation, supports and metallic drip tray complete in all respect.			250	Mtr
9.4	M.S pipe network of different sizes, seamless schedule 40 for chilled water, from main chilled water tape off to CDU and to 42KW Inrow units, along with thermal insulation, cladding where necessary and supports complete in all respect.			150	Mtr

9.5	Pipe accessories; valves, strainers, flexible joints, couplings etc with thermal insulation, cladding where necessary complete in all respect			1	
9.6	Condensate water UPVC piping of different sizes between 1/1/2" — 1" dia complete in all respect.			300	Mtr
9.7	PPRC pipe size 1" dia for humidifier water supply complete in all respect.			300	Mtr
9.8	Network monitoring system along with wiring complete with conducting, laying & termination.			1	hod
10	Upflow Air Conditioners				
10.1	Chilled water floor standing computer room air handier (CRAC) units capacity 15 kw. Complete with humidity / de-humidifier, LCD and discharge air plenum.	Stulz/Uniflair		7	Nos
10.2	Network Monitoring Card	Stulz/Uniflair		1	Nos
11	CRAC Unit Accessories				
11.1	CRAC units stands made of steel.			7	Nos
11.2	PEX piping size 1 1/4" dia between CRAH units to CDU, with insulation, supports and metallic drip tray complete in all respect.			150	mtr
11.3	Pipe accessories; valves, strainers, flexible joints, couplings etc. with thermal insulation, cladding where necessary complete in all respect			1	Lot
11.4	Condensate water UPVC piping of different sizes between 1/1/2" — 1" dia complete in all respect.			100	m
11.5	PPRC pipe size 1" dia for humidifier water supply complete in all respect.			100	m
11.6	Network monitoring system along with wiring complete with conducting laying & termination.			1	Job
14	Environmental Monitoring System				
14.1	NetBotz Rack Monitor 570	APC by Schneider	NBRK0570	4	Not.
14.2	NetBotz Rack Sensor Pod 150	APC by Schneider	NBPD0150	6	Nos.
14.3	APC Temperature & Humidity Sensor	APC by Schneider	AP9335TH	48	Nos.
14.4	NetBotz Leak Rope Sensor 20 ft.	APC by Schneider	NBES0308		Nos.
14.5	NetBotz Leak Rope Extension - 20 ft.	APC by Schneider	NBES0309		Nos.
14.6	APC 24 Port 10/100 Ethernet Switch	APC by Schneider	AP9224110		Nos.
14.7	Horizontal Cable Organizer 1U w/brush strip	APC by Schneider	AR8429	4	Nos.
14.8	StruxureWare Data Center Expert Basic	APC by Schneider	AP9465	1	Nos.
14.9	StruxureWare Data Center Expert; 25 Node License Only	APC by Schneider	AP9525	1	Nos.

20	Rodent Repellent System				
20.1	Ultrasonic Rodent repellent devices in all rooms of the DC			10	Nos
22	FM-200 Fire Suppression System with Existing Cylinders				
22.1	<p>FM-200 Suppression System For Class A & C fires, Complete with FM-200 Cylinders/ containers, Manual Actors, Solenoid Actuators, Discharge Nozzles, Black steel SCH 40 seamless piping network as per UL&FM/ VdS flow calculation Software, painting & finishing and Caution signs for Following Rooms</p> <p>Preferably existing FM-200 Cylinder Hardware shall be used where possible.</p> <p>Each Cylinder should be equipped with:</p> <ul style="list-style-type: none"> i) Pressure indicating gauge ii) Anti-recoil cap iii) Burst disc iv) Liquid level indicator v) Valve Assembly vi) Electric solenoid Actuator assembly vii) Manual Actuator viii) Low pressure switch IX) any other component required to complete the system as per manufacturer requirement. <p>UL Listed, FM / Vd5 Approved</p>			-	-
22.2	Data Center (POD-1) Room + False Ceiling + Raised Floor Dimensions(Area= 861 sq. ft X14 ft) FM-200 @7%		Existing cylinder (4X700lbs & 2X100lbs) shall be used in POD-1, & POD-2 in Main & Reserve topology.	1	Lot
22.3	Data Center (POD-2) Room + False Ceiling + Raised Floor Dimensions(Area= 937 sq. ft X14 ft) FM-700 @7%				
22.4	Staging Area (Room + False Ceiling + Raised Floor) Dimensions(Area= 173 sq. ft X14 ft) FM-200 @7%		Existing Cylinder (2X350lbs) shall be used in staging area and electrical room in main / reserve topology.	1	Lot
22.5	Electrical Room (Room + False Ceiling + Raised Floor) Dimensions(Area= 205 sq. ft X14 ft) FM-200 @7%				
22.6	Battery Room (Room + False Ceiling + Raised Floor) Dimensions(Area 205 sq.		Existing Cylinder (2X350lbs) shall be used in battery room and UPS	1	Lot

	ft X14 ft) FM-200 @7%		room in main / reserve topology.		
22.7	UPS Room (Room + False Ceiling + Raised Floor) Dimensions(Area 396 sq. ft X14 ft) FM-200 @7%				
Addressable/Intelligent Fire Detection for Data Center (POD 1, POD-2, POD-3), Electrical Room, Battery room, UPS Room, Staging area, CDU Room, NOC & Corridor					
23	INTELLIGENT DETECTOR ADDRESSABLE	-	-		
23.1	Intelligent Addressable Detector , Smoke detection should be "Photoelectric' Type, with stable performance in high air velocities, The Detector equipped with remote annunciator and output contact option connected with mounting base, with low current draw stable performance in high air velocities, Built-in tempe base design remote LED option, removable cover and Built-in test switch. Etandheld/software sensitivity reader available. An integrated circuit incorporates signal processing to reduce false alarm. The Detector should be Loop Powered. Operating voltage 15-30VDC and Operating range temperature up to SOT. Smoke Sensitivity range should up to 4% per foot. The Detector should have provision to connect remote (external) LED light for status monitoring. The Detector should be supply with a standard back Box/Base. The Detector should be compatible with Control Panel. Approvals: UL,FM / VDS Approved			75	Nos.
23.2	Loop Powered, intelligent Addressable Manual Release Points with integrated short circuit isolator, LED indicator and test Key. Operating voltage 15-30V DC. The MRP should be supply with a standard back Box/Base, The MCP should be compatible with Panel (Controller). Approvals; UL,FM / VDS Approved			8	Nos.
23.3	Loop Powered, intelligent Addressable Manual Abort Station, Operating voltage 15-30V DC. The Abort station should be supply with a standard back Box/Base. The Abort Station should be compatible with Panel (Controller). Approvals: UL,FM VDS Approved			8	Nos.
23.4	Intelligent Addressable Release Module with, Operating voltage 15-30V DC. The Release Module should be supply with a standard back Box/Base. The Release Module should be compatible with Panel (Controller) Approvals: UL,FM / VDS Approved			8	Nos.

23.5	Horn Strobe complete with all accessories Operating voltage 15-30V DC, The Horn Strobe should be supply with a standard back Box/Base. The Horn Strobe should be compatible with Panel (Controller) Approvals: UL,FM / VDS Approved			8	Nos.
23.6	6 inch dia Motor Bell Operating voltage 15-30V DC. The Bell should be supply with a standard back Box/Base. The Bell should be compatible with Panel (Controller) Approvals: UL,FM / VDS Approved			8	Nos.
23.7	Loop Powered, intelligent Addressable Control Module For Bell & Horn Strobe, Operating voltage 15-30V DC. The Control Module should be supply with a standard back Box/Base. The Control Module should be compatible with Panel (Controller) Approvals: UL,FM / VDS Approved			8	Nos.
23.8	Loop Powered, intelligent Addressable Relay Module for HVAC Shutdown Operating voltage 15-30V DC. The Relay Module should be supply with a standard back Box/Base. The Relay Module should be compatible with Panel (Controller) Approvals: UL,FM / VDS Approved			8	Nos.
23.9	Loop Powered, intelligent Addressable Monitor Module for Low pressure Switch, Operating voltage 15-30V DC. The Monitor Module should be supply with a standard back Box/Base. The Monitor Module should be compatible with Panel (Controller) Approvals: UL,FM / VDS Approved			8	Nos.
23.10	Loop Powered, intelligent Addressable Mini Monitor Module for Abort Switch, Low Pressure Switch Operating voltage 15-30y DC. The Mini Monitor Module should be supply with a standard back Box/Base. The Mini Monitor Module should be compatible with Panel (Controller) Approvals: UL,FM / VDS Approved			16	Nos.
23.11	Main / Reserve Switch. The Main / Reserve Switch should be supply with a standard back Box/Base. The Main / Reserve Switch should be compatible with Panel (Controller) Approvals: UL,FM1/VDS Approved			3	Nos,
23.12	Fire Alarm system including Wiring for system components with 2x1.5sq,mm PVC shielded cable in 20mm dia PVC conduit and as required complete with junction box and all accessories.			1	Job

iii)- Intelligent Aspiration VESDA Detection System.

24	Multiple Zone/inlet VESDA for Data Center Area (POD-1 & POD-2). System should be integrated with intelligent Fire Detection Panel. (VLS-204)			2	Nos.
24.1	Single Zone/inlet VESDA for Data Center Area (Battery Room, Electrical Room, Staging Area, UPS Room). System should be integrated with intelligent Fire Detection Panel. (VLF-250)			5	Nos.
24.2	Sampling pipe network as per manufacturer's recommendation and VESDA design software, complete with all type of supports, fittings & accessories, complete in all respect. Sampling Capillaries should be provided for a;; critical equipment monitoring.			1	Job
25	Miscellaneous Items				
a.	HEPA filter based Vacuum cleaner Dyson with extra filters	Dyson	DC39	3	
b.	Air Purification system for Data Center - with extra filters	Amaircare		3	
c.	Water detection cables below raised Floor with monitoring system- SO mtr		Already covered in EMS	3	No.
d.	APC 2X1X16 IP KVM with APC 17" Rack LCD and USB VM Server Module Bundle	APC by Schneider	KVM-BN001	3	No.
e.	APC KVM 2G, Server Module, USB	APC	KVM-USB	48	
f.	Fire extraction dampers from data centers complete with grill, motorized dampers and extraction fans up to building external area to remove smoke/ gas In case of fire. These dampers should be integrated with the fire suppression system of each data centers.			3	Job

PART 2					
BOQ					
Sr #	Description of Items	Manufacturer	Part No.	Qty	Unit
Item No.1 (Electrical Panel)					
1	LV Electrical Panel - Type Tested, MCC to be Powered through two sources with Flexible Copper Bus Bars and Energy Analyzers	scheider Electric Prisma Plus		1	Nos.
2	Electrical panel inclusive Star Delta starter for HVAC pumps	scheider Electric Prisma Plus		1	Nos.
3	Integration and configuration of the complete system with existing DCIM of the facility for remote monitoring and control.	scheider Electric Prisma Plus		1	Nos.
4	2 X 1 x 240 sq mm per phase from LT Room to Data Center Electrical Room	Top Cable Spain		1300	Mtr
5	1 x 150 sq mm for MCCB Input source	Top Cable Spain		350	Mtr
6	5 x 95 sq mm for Start Delta Panel & chiller input	Top Cable Spain		185	Mtr
7	5 x 50 sq mm for Pump input	Top Cable Spain		85	Mtr
8	Wiring Accessories	CNS		1	LS
ITEM NO.1: Total Price PKR (Incl. all taxes)					
Item No.2 (AUTOMATIC VOLTAGE REGULATOR (AVR))					
1	300 KV ±20% Three-Phase Digital Automatic Voltage Stabilizer. Having three separate control circuits, individually regulate each phase and suitable for unbalanced lines between phases up to 100%. 300 KVA Automatic Voltage Regulator (AVR) Input Voltage: Input Voltage Range 320-480 VAC, Frequency 50 / 60Hz. Protection IP21, Approx. Weight: 1300Kg.	ORTERA, Italy		1	Nos.
ITEM NO.2: Total Price PKR (Incl. all taxes)					
Item No.3 (CHILLER & HVAC WORKS)					
1	DX Based Air cooled water chillers of capacity 120-KW each, operable on 400 volts 50-Hz with compatibility of Network configuration for Precision application, at site complete in all respect	Scheider Electric Uniflair		2	Nos.
2	Cassette Type Fan coil unit Capacity 2TR, of approved brands as specified complete in all respect	MIDEA		1	Nos.
3	End Suction, Centrifugal type Chilled Water Pumps of Minimum 70% efficiency with suitable Motor & efficiency for 100-GPM Flow with 125' feet-Head , Bronze Impeller, Coupling Guard and leveled Common Metal Base, high efficiency bearing with block & Mechanical Seal Complete in all respect (bidder has to re-calculate the pump head, prior to order, in accordance with actual chiller location and piping route)	KSB		3	Nos.

4	Pressurized Expansion Tank For Chilled Water Circuit suitable for system volume to be calculated by vendor, Max system Pressure of 80-100Psi Complete with , Base Platform, Air Vent , Drain Cocks, Service Cock, Connection Ports, Insulation, Make Up Water Connection, Cladding etc. at proposed location on drawings or as advised by site engineer / in charge	IME		1	Job
5	Air Separator unit complete with Gauges, Cock, Water Intake Connections, and Stand, support & allied accessories and instrument complete in all respect.	IME		1	Job
6	Complete Chemical Dosing solution Manual "Chilled water Close Circuit suitable for water volume of 3.4-Cubic Meter" with related Inspection, testing & Dosing Arrangements near to chillers.	Local		1	Job
7	Following Seamless MSSchedule-40 Piping system with all matching fittings, Connections, Welding, fabrication, Painting where necessary, Permanent Metallic supports / Hangers as per Drawing details & route shown on drawings or advised by engineer /PM, complete in all respects	Huffaz			
7.1	Dia 5"			80	RFT
7.2	Dia 4"			775	RFT
7.3	Dia 3"			250	RFT
7.4	Dia 2-1/2"			135	RFT
7.5	Dia 2"			24	RFT
7.6	Dia 1-1/2"			180	RFT
7.7	Dia 1"			12	RFT
7.8	Dia 3/4"			12	RFT
8	High Density Fire rated FM-Approved Elastomeric Close Cell 25mm-Thick insulation with Vapor Barrier, Wrapping, Sealing for following Size of Piping, Complete in all respects as advised by engineer /PM.	Armaflex			
8.1	Dia 5"			80	RFT
8.2	Dia 4"			775	RFT
8.3	Dia 3"			250	RFT
8.4	Dia 2-1/2"			135	RFT
8.5	Dia 2"			24	RFT
8.6	Dia 1-1/2"			180	RFT
8.7	Dia 1"			12	RFT
8.8	Dia 3/4"			12	RFT
9	Prime quality G.I sheet cladding with on exposed or where necessary chilled water piping and accessories complete with Cutting, Fitting, Sealing in all respect			4500	RFT

10	Superior quality & following size of Gate Valve with matching flanges, Gaskets & Supports as per drawings, Complete in all respects	Imported, South Africa, SCON			
10.1	Dia 4"			8	Nos.
10.2	Dia 3"			6	Nos.
10.3	Dia 2-1/2"			8	Nos.
10.4	Dia 1- 1/2"			18	Nos.
10.5	Dia 1"			2	Nos.
10.6	Dia 3/4"			3	Nos.
11	Superior quality & following size of Butter fly valves with matching flanges, Gaskets & Supports as per drawings, Complete in all respects	SCON			
11.1	Dia 3"			12	Nos.
11.2	Dia 2-1/2"			4	Nos.
12	Superior quality of following size of Combination Flow Regulating Valve "CFRV" with matching Fittings, support & Finishing as per drawing Complete in all respects	SCON			
12.1	Dia 3"			3	Nos.
12.2	Dia 2-1/2"			3	Nos.
12.3	Dia 1-1/2"			10	Nos.
12.4	Dia 3/4"			2	Nos.
13	Superior quality Y-Type Strainer for Piping circuit of following size with all matching Fittings & Finishing as per drawing & Complete in all respects	SCON			
13.1	Dia 3"			3	Nos.
13.2	Dia 2-1/2"			4	Nos.
13.3	Dia 1-1/2"			5	Nos.
14	Superior quality & following size of Swing Type Check Valve on Pumps discharge & at chillers with all Fitting & Finishing as per drawing & Complete in all respects	SCON			
14.1	Dia 3"			5	Nos.
14.2	Dia 2-1/2"			2	Nos.
15	Best quality bronze Ball Valve with Reducer & Sockets Complete with sockets	KITZ			
15.1	Dia 1"			2	Nos.
15.2	Dia 3/4"			4	Nos.
16	Rubber flexible connector with matching flanges, includes all Fitting, cutting & supports, complete in all respects	TOZEN			
16.1	Dia 3"			3	Nos.
16.2	Dia 2-1/2"			3	Nos.
17	2way Motorized valve ON/OFF two positions, operable on 220v, for fan coil unit complete in all respect.	Imported, China		1	Nos.

18	GI Pipe , with fittings & connections for makeup water supply for chillers / maintenance size 1 inch Dia with Valves, fittings, accessories, trucking and supports at roof top or proposed by engineer / PM complete in all respect.	ILL, Pakistan		40	RFT
19	Copper Pipe, size 1 inch Dia with insulation, tapping, fittings, accessories and supports for chilled water supply and return complete in all respect.	ZMC, China		16	RFT
20	Best Quality PPRC Pipe of Dia 1" for humidifier supply in DC & Chillers. Make up water at Roof-Top with all cutting, laying, supports, valve & connection with equipment complete in all respects as mentioned on existing drawings available with the purchaser.	Minhas, Pakistan		270	RFT
21	Following size of UPVC Pipe best quality for Condensate Drain as per drawing & instruction of site In charge includes all Laying, insulating, rapping, , Fixing, Cutting, Routing, Units Connections "Complete in all respects	Popular, Pakistan			
21.1	Dia 2.5"			250	RFT
21.2	Dia 1.5"			70	RFT
21.3	Dia 3.4"			24	RFT
22	4" Dial Type Pressure Gauge Glycerin Filled 1 to 5-Bar With Siphon & Cock Complete with sockets.	WIKA		12	Nos.
23	Colored alcohol filled best quality Thermometer of range 10 to 120 Fahrenheit With Cock & Valve complete with sockets	WIKA		12	Nos.
24	Superior Construction & Quality Air Vents with Shut Off Valve "Brass" Complete in All respect.	Imported, China		6	Nos.
25	Power cable 70mm Square 4core from each chiller to its correspond breaker inside Building Panel, includes all Conducting, Laying, Dressing, Routing, & connections complete in all respect	Fast Cable		300	Mtr
26	Power cable 25mm Square 4core from each chilled water pump to its correspond breaker inside Building Panel, includes all Conducting, Laying, Dressing, Routing, & connections complete in all respect	Fast Cable		200	Mtr
27	Power cable 16mm Square 4core from each chilled water pump to its correspond breaker inside Building Panel, includes all Conducting, Laying, Dressing, Routing, & connections complete in all respect.	Fast Cable		300	Mtr
28	Power cable 10mm Square 4core from each chilled water pump to its correspond breaker inside Building Panel, includes all Conducting, Laying, Dressing, Routing, & connections complete in all respect	Fast Cable		150	Mtr

29	Earth cable 70-mm Square 1core from each chiller to It's correspond Earth Point or Panel, includes all Conducting, Laying, Dressing, Routing, & connections complete in all respect.	Fast Cable		100	Mtr
30	Earth cable 10-mm Square 1core from each chiller to its corresponding Earth Point or Panel, includes all Conducting, Laying, Dressing, Routing, & connections complete in all respect.	Fast Cable		100	Mtr
31	Electrical panel consist on 2 x star delta or equivalent starter two-chilled water pump complete in all respect.	JEI		1	Nos.
32	Communication wiring for integration between chiller, shielded flexible cable & Termination of HVAC Alarm Cable & Integration with BMS system for DC status complete in all respect	Beldan		1	Job
33	Copper piping connection of Fan coil units with motorized valves, control wiring, startup testing commissioning complete with all respect. Each fcu approx. 20ft piping @ 3/4".	Local		5	Nos.

ANNEXURE – B

DRAFT SERVICE LEVEL AGREEMENT (SLA)

1. Fault Severity Levels Definitions:

1.1. High:

High level fault occurs when:

1.1.1. A critical element or arm of redundancy is affected or compromised, such that the critical equipment is still being supplied power and cooling, but there is only a single path / source of power or cooling part is available. All of the System redundancy is not available. In such a situation, if another similar failure happens, the operation of the critical equipment could be affected thereby affecting the DC Operation and services.

1.1.2. A combination of faults, although such occurrence is highly unlikely, as a result of which critical equipment is not being powered or cooled. In such a case, the operation of the critical equipment could be affected. In this situation, urgent actions need to be undertaken to bring back the system back to normal operation as soon as possible.

1.2. Medium:

Medium level fault occurs when:

An element or component of the system is affected, but the system continues to operate, and redundant and parallel paths / sources of power are still available. In this situation, actions need to be taken to bring the system back to its normal condition.

1.3. Low:

Low level fault occurs when:

An alarm or warning occurs in the system, and warrants attention, to review the situation and take corrective actions. It is important to take serious notice of a low-level alarm because it may be a precursor to a serious fault, if not taken care of.

Faults'	target Resolution Times	Criticality Level	Target Resolution Time	Status Update
High	1 Hour	Every 30 minutes	Medium	4 Hours
Every 1 Hours	Low	24 Hours	Every 12 Hours	

2. Incident/fault Resolution & Response time

	Problem or Error Classification		
	High	Medium	Low
Response Time	< 15 minutes	< 1 hours	< 4 hours
Restore Time	Continuous activity to restore in < 4 hours	< 8 hours	< 5 days
Permanent Resolution	Reasonable efforts to provide within 10 working days	20 working days	30 working days
Resource Allocation	Management and all appropriate technical resources	Appropriate technical resources	Technical resources as available

3. Operation Support & Maintenance Services Scope

3.1. Routine preventive maintenance.

3.1.1. Routine Preventive Maintenance: Routine Preventive maintenance will consist of:

- 3.1.1.1. Cleaning of equipment, and logging of all measurements taken.
- 3.1.1.2. Periodic Checking the mechanical soundness of all components.
- 3.1.1.3. Simulation of operation and, if necessary, making adjustments to the electronic control circuits etc.
- 3.1.1.4. Checking and adjustment of all electronic supervisory and alarm.
- 3.1.1.5. Control checks on all electrical, mechanical and filter elements.
- 3.1.1.6. Advise of any parts found defective and replace.
- 3.1.1.7. Checking, replacement and maintenance of internal filters as per OEM recommendations.
- 3.1.1.8. Monthly Water test of Chillers and CDU.
- 3.1.1.9. Compile shift wise, quarterly and annually comprehensive monitoring/maintenance checklists/ reports as per standard recommended maintenance requirements and submit one copy to the customer

3.2. Quarterly Preventive maintenance

3.2.1. Quarterly preventive maintenance of major devices including Chillers, Fire Control systems and electrical including AVR, UPS should be carried on quarterly basis as per recommendations of OEM and a comprehensive report must be shared with PITB. All replaceable parts having completed their principal recommended life should be replaced with new one.

3.2.2. Quarterly maintenance of Chillers involves chemical dosing/treatment of Water, cleaning of lines. However, if chilled water is drained during regular operations due to lack of maintenance or negligence on part of contractor and the subsequent water test is not satisfactory, contractor may have to perform/inject chemical dosing as required.

3.3. Repairs/replacement of the equipment in the event of failure.

3.3.1. Replacement parts must be genuine and of same origin as of the faulty/damaged/parts being replaced. However, in case of non-availability of required parts (which will be considered violation of SLA) compatible parts may be used for temporary restoration which would ultimately be replaced by genuine / new parts on the availability.

3.3.2. Repair of any part should be on principle recommended standards, any part for which principle doesn't recommend repair must not be repaired but should be replaced with new one.

3.3.3. Replaceable/disposable parts having completed their duty cycles / recommended life must be replaced immediately at the end of their life. Only excluding FM200. However, in case of accidental release of FM200 due to lack of maintenance or monitoring on part of contractor, the contractor would be responsible for the refill.

3.3.4. In case of any failure in parts / devices, the incident must be logged in the ticketing system and report must be shared with PITB Technical team immediately and the rational decision to replace or repair would be made as per recommendation of OEM.

3.3.5. Replacement / repair time of faulty parts must be in accordance with the resolution time mentioned in *Incident / fault Resolution & Response time* table above and should not in any case exceed one month / 30 days.

3.3.6. During the replacement time contractor is responsible for the uptime of HVAC, Electrical, Fire control, access control and related components under this maintenance contract and temporary solution may be adopted for short period of time such that the adopted solution must not cause further disorders in the main equipment/s.

3.4. Supply of Replacement Components/Spare List

3.4.1. CONTRACTOR will keep a good stock of Factory supplied spare parts / general category parts / devices for the 90% of the predictable faults and in case of required replacement the parts must be replaced in reasonable time and in accordance with the *Incident / fault Resolution & Response time* table above. Upon usage of these spares, CONTRACTOR will replenish these spare parts. The objective is to keep the Mean Time to Repair (MTTR) at a very low level, thereby minimizing the disruption to the customer's critical equipment.

4. Reporting Structure

Comprehensive reports should be generated as part of the routine service operation and shared with customer designated staff.

5. MSO Prerequisites

Purchaser will ensure the access to the Datacenter and equipment supplied by contractor. Specific Access by each engineer will be defined by contractor and approved by Purchaser Management. Working space for engineers will be the responsibility of the customer.

6. Escalation Procedures

Contractor should use PITB provisioned online automated ticketing and incident logging system. Contractor Service Engineers are required to log the incidents asap in said system and escalate problems immediately. It is required to devise a multi-notification routine of all faults that follows both the technical staff and management staff paths leading right up to the COO.

Resolution and response time calculations would be calculated through above mentioned ticketing system.

The following defines the Technical Escalation levels to a typical field anomaly. When an anomaly is reported, it should be escalated automatically to the required level described below. Consequently, the customer has to only maintain contact with the contractor Field Engineer and the management of Contractor as required.

6.1. Service Engineer (Level 1):

The onsite resident Service Engineers are the first person that comes across an issue on site. He will be the main point of contact for the customer/purchaser regarding any anomaly. The service engineers are routinely involved in the maintenance of the entire datacenter Infrastructure, and have knowledge about the environment and application of the equipment.

6.2. Service Support Experts (Level 2):

Service Support Experts is the next level of escalation. These individuals should be active field engineers who have gained expertise with a particular product line and/ or are experienced in service for many years.

The entire CONTRACTOR organization including CONTRACTOR Management must be actively involved in coordinating activities once the problem escalates above Level 1. It should be Contractor's key objective to solve the problem on an urgent basis and keep the customer/purchaser informed of the progress being made.

6.3. Manufacturer's Technical Support Department (Level 3):

This group typically reports and operates in the Service Organization of the respective manufacturers. The purpose of this group is to be the central clearinghouse for serious service-related issues. The experts who have been identified by their management and have thorough knowledge about their products must be available to provide phone and other needed support. In critical situations, they must be required to travel to customer/purchaser sites to resolve issues. These experts should gather all information on a given product line from the beginning, and conduct important interface with their respective Quality and R&D organizations. They will collect vital field data that will be later analyzed, and vital Statistics reported to Service Management of the company.

7. TOOLS:

Tools required for service will be provided by CONTRACTOR.

8. Resource Engagement Procedures

CONTRACTOR Service Engineers should be selected to keep the job requirements in mind and as per min qualification and experience requirements mentioned in this document. It is CONTRACTOR responsibility to train them and keep that training up to date through periodic refresher training sessions. CONTRACTOR Service Management has the responsibility to monitor each and every report that is generated on site with an eye to spot problems and issues, before they occur. This should be in line with the problem prevention philosophy that is practiced at CONTRACTOR Engineering. Service Engineers should be trained by CONTRACTOR Expert Service Support Engineers, who are experts of their respective fields. The training should be rigorous and covers both theory and practice. The basics of equipment design philosophy, the theory of operation, monitoring and reporting norms, troubleshooting techniques and maintenance procedures should all be covered in great detail. The mode of training could be on the job or classroom based, with related equipment available in close proximity It is further required that all trained engineers go through refresher training to ensure sharpness of skills, and to bring them up to date on the most recent findings, upgrades, enhancements, modifications etc.

9. Penalties:

In case of non-compliance to the mentioned time frames, monitoring and maintenance parameters following penalties would be applicable;

	Problem or Error Classification					
	High	Penalty	Medium	Penalty	Low	Penalty
Response Time	< 15 minutes	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each five minutes.	< 1 hours	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each hour/s.	< 4 hours	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each 4 hours.
Restore Time	Continuous activity to restore in < 4 hours	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each hour/s.	< 8 hours	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each 8 hours.	< 5 days	One penalty of 2 % of Faulty equipment (not faulty part) cost (services and warranty cost provided by contractor) amount per additional each day
Permanent Resolution	Reasonable efforts to provide within 10	One penalty of 2 % of Faulty equipment (not faulty	20 working days	One penalty of 2 % of Faulty equipment (not faulty	30 working days	One penalty of 2 % of Faulty equipment (not faulty

	working days	part) cost (services and warranty cost provided by contractor) amount per additional each day.		part) cost (services and warranty cost provided by contractor) amount per additional each 5 days.		part) cost (services and warranty cost provided by contractor) amount per additional each 5 days
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Note: Replacement of parts would be included in the relevant resolution criteria/requirement. Cost of Equipment means the service and warranty cost provided by the contractor for the specified Equipment that itself or its any part are out of order.

ANNEXURE – C

PITB DC Critical Parts Detail

The service provider must maintain an auditable stock of critical parts (listed below) or equipment relating to mentioned equipment under contract within three (03) months after the award of Letter of Intent (LOI)/ Award Notification for the immediate resolution through replacement, in case of any incident. The procuring agency's designated staff shall verify the stock maintained by the Contractor on quarterly basis. The critical parts list contains the major parts and the rest of the related equipment parts availability as per need and in compliance to SLA, is the responsibility of the contractor.

Sr. No	Prod. No	Descriptions	Manufacturer	Qty	Remarks
Symmetra UPS (APC Schneider)					
1.	WSYMIM6	INTELLIGENCE MODULE BOARD FOR SYIOF500KMBR - SPARE PART	APC		
2.	SYPM25KD	Symmetra PX 25kW Power Module, 400/480V	APC		
3.	WSYSW500KD	Symmetra PX 500kW Static Switch Module, 400/480V	APC		
4.	WSYPSU2	APC Symmetra PX System PSU - Spare Part	APC		
5	WSYBMB2	APC Symmetra PX 250/500KW Battery Monitor Board - Spare Part	APC		
6	OJ-OP4720AA	PCB ASSY BATTERY BACKPLANE	APC		
7	OJ-OP4705	POWER MODULE INPUT BACKPLANE	APC		
8	OJ-OP4706AB	POWER MODULE OUTPUT BACKPLANE	APC		
9	OJ-ON-9586SYPX	10-IN DISPLAY SYMMETRA PX 250/500	APC		
10	WSYBMB2	APC Symmetra PX 250/500KW Battery Monitor Board - Spare Part	APC		
11	SYOPT005	APC Symmetra PX 250/500 Air Filter	APC		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
ACRP (APC Schneider)					
1	WON-0297	APC HUMIDITY SENSOR	APC		
2	OJ-OW3314A	CABLE ASSY THERMISTOR/PROBE EMU	APC		
3	WON-0278	RC Meter Electronic Piping Flow - Spare Part	APC		
4	WOP2372	1-BAY BOARD SET (MB,WC,XA,DP,OPT)	APC		
5	WOP2465	COMPLETE 808 PCB CRAC 9X RLY 2X OPTO FAN TACH	APC		
6	OJ-430-0197B	XFMR CLASS II 100VA 208-230-460-480VX24V-30V	APC		
7	WOP2358	COMPLETE 811 PCB CRAC 8X OPTO SIMM	APC		
8	W875-4281	ASSY; 3WAY 1" VALVE W/ACTUATOR	APC		
9	W875-4018	FLOW METER - 1"	APC		
10	OJ-875-2013A	FILTER AIR 30% 418X470X96 MM (Standard)	APC		
11	VFS 10-200	CW Flow Sensor	APC		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
ACRC (APC Schneider)					
1	OJ-ON-9580AC	TOUCH SCREEN ACRC GEN2	APC		
2	OJ-OM-816226	ASSY FAN MODULE ACRC301S	APC		
3	OJ-875-4537	ACTUATOR MS4D 24VAC/24VDC	APC		
4	OJ-ON-10168	ASSY CONTROLLER COOLING 13 DIN	APC		

5	OJ-HUA34281	FUS 15A 600V F CTGE 10X38	APC		
6	OJ-451-1165	CONTACTOR 20A/600V 2NO 2NC 24VDC COIL	APC		
7	OJ-ON-10269	PUMP CONDENSATE CHARLES 24VDC ACRC301S	APC		
8	OJ-OP3302AA-Z	COMP PCB 0838 PWR SPLY 24V 45VA ROHS	APC		
9	OJ-OP5849AB	PCB ASSY ACRC301 EMI/SURGE BOARD	APC		
10	OJ-OP5849AB	PCB ASSY ACRC301 EMI/SURGE BOARD	APC		
11	VFS 10-200	CW Flow Sensor	APC		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
Chiller (APC Schneider)					
1	OJ-CORS1000A1A	SCROLL COMPR. GSD80295VAB4Bitzer R410A	APC		
2	OJ-EVPIO412X1A	PLATE EVAPOR. ACH220AM 94 PS45.0	APC		
3	OJ-FIDE0318A1A	REFRIGERANT FILTER DRYER MOD.4275/9S	APC		
4	ON-STPR032X1A	MAN.HI PRES.SWITCHCC AP 42-33 SF NC RM	APC		
5	OJ-STPR035A1A	HR11011A4R004 LOW PRESURE SWITCH	APC		
6	OJ-STPR106A1A	SFS 105 WATER DIFF.PRESSURE SWITCH(IP54)	APC		
7	OJ-STSE1013A1A	E PRESSURE TRANSDUCER TYPE NSK 0/35bar	APC		
8	541-STSE152A1A	PRESSURE TRANSDUCER TYPE NSK 0/50bar	APC		
9	OJ-MECO0372X1A	SOLENOID VALVE 1098/9 230Vac - 50/60Hz	APC		
10	OJ-MERE1040X1A	PHASE SEQUENCE CONTROL RELAY RM17TE00	APC		
11	OJ-STCO195B1A	USER TERMINAL WITH LCD DISPLAY pGD1	APC		
12	OJ-STRE0534X1A	SPEED CONTROL FAE VRTS12	APC		
13	OJ-VEAS0276X1AB	AX.FAN+GR. + NOZ. A6D800-AD01-01 400/3/50	APC		
14	OJ-VATE0487X1A	EXPANSION VALVE mod. TGEL 40	APC		
15	OJ-STSC0601X1A	CONTROL BOARD pCO5+ MEDIUM USB	APC		
16	STX520	Temperature Sensor	APC		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
Stulz (CCU)					
1	M24658	Comptrol C7000 I/O Control Board	Stulz		
2	M24502	Comp Trol Interface Display	Stulz		
3	SQS 659	CW Flow Actuator	Siemens		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
CW Pumps					
1	JL1090	For Chiller water supply	KSB		
2		Coupling			
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
Netbotz					
1	NBRK0570	For monitoring of Rack Sensors	APC		
2	NBPD0150	For monitoring of Rack Sensors	APC		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
APC Rack Temperature Sensor					
1	AP9335T	Rack Sensing change in temperature	APC		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
APC Rack Humidity Sensor					

1	AP9335TH	Rack Sensing change in humidity level	APC		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
Circuit Breakers					
1	NT12-H1	ACB (Air Circuit Breaker)	Schneider		
2	NSX- 630	MCCB	Schneider		
3	NSX-400	MCCB	Schneider		
4	IC-60N	MCB	Schneider		
5	NSX-100F	MCB	Schneider		
6	NSX-400-630	MCCB	Schneider		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
AVR					
1	RION PLUS 320-10	For Voltage regulation	Ortea		
2	SIGLSE833	User Interface/Display Card	Ortea		
3	SIGSTE949A	Control Board	Ortea		
4	SIGCAP831A	Capacitor Bank Card	Ortea		
PDU					
1	SCHNEIDER AP8853	For Rack power distribution	Schneider		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
PDPM					
1	PDPM1332IEC-3P	For Power distribution & power management	Schneider		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
Motion Sensor					
1	SAE_UE_MS_CSAWE Single-Load 360°	For sensing any motion in camera view	Schneider		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
Fire Detection & Suppression Equipment					
1	VLF250	VESDA (very early smoke detector)	Cheetah Fike		
2	Fike 63-105	Smoke Sensor (for sensing smoke)	Cheetah Fike		
3		Fire Extinguisher FM-200 Cylinder	Fenwal		
4	VSP-005	Filter Cartridge	X Trails		
5	VSP-722	Aspirator	X Trails		
6	VIC-030	Multifunction Control Card (MCC) with Monitored Power Output (MPO)	X Trails		
7	VIC-020	Multifunction Control Card (MCC)	X Trails		
Sr.no	Prod. No	Description	Manufacturer	Qty	Remarks
CCTV Surveillance					
1	IMPS110-1S	IP camera	Pelco		
2	SO4E23-F-EO	PTZ Camera	Pelco		