



Higher Education Commission, Pakistan

Invitation to Bid

Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services”

(Single Stage-One Envelope Procedure)

The Higher Education Commission (HEC), Pakistan invites sealed bids from firms of good repute registered with Income Tax, Sales Tax Departments and fulfilling requirements as per bidding document for:

Tender for Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services”

A bidding document containing detailed terms and conditions is available for the interested bidders at HEC Website and hard copy may also be obtained from Mr. Egnr. Farhadullah (Assistant Director, IT Division), Higher Education Commission, Sector H-9, Islamabad, from Monday to Friday during working hours (08:00 am – 04:00 pm). Price of the bidding documents may be deposited to HEC through bank deposit to HEC Finance Account no. 17427900133401” HBL (with proper banking receipt that must be submitted to HEC finance for deposit intimation before bid submission date and time, at a cost of Rs. 2000/-. Bidding documents can be downloaded from <http://www.hec.gov.pk> free of cost, however, interested bidders will be required to have a registered copy purchased from HEC to participate in the tender process.

The bidders should submit a bank draft (from the scheduled bank) or pay order of fixed amount Rs. 60,00,000/- which must accompany the bid in a sealed envelope marked as “Earnest Money” in favor of Director General (Finance), Higher Education Commission, Islamabad along with the proposal. This tender is being executed under PPRA Rule Para 36(a) “Single stage – single Envelope Procedure”.

The bids must be submitted via PPRA – EPADS (e-Pak Acquisition and Disposal System) and must also physically reach the HEC Information Technology (IT) Division, Higher Education Commission, H-9, Islamabad by 1330 hours on April 22, 2025 (Tuesday). Failure to fulfill either of these requirements (regarding bid submission) will result in rejection of bid/bids. The bids will be opened on the same day at 1400 hours at the HEC Auditorium Block, Sector H-9, Islamabad, in presence of bidders who chose to attend physically on the same day. The bids prepared by following the instructions in the bidding document must reach Higher Education Commission, Sector H-9, Islamabad on or before prescribed date and time schedule as given above. HEC reserves the right to accept/reject any or all the bid/bids at any stage while assigning reason(s) thereof. This advertisement is also available at PPRA (<http://www.ppra.org.pk/>) and HEC (www.hec.gov.pk) websites. For any query send email to smjshah@hec.gov.pk, fullah@hec.gov.pk please.

Director (PERN)/In Charge (IT),

Higher Education Commission, Sector H-9 Islamabad, Pakistan.

Phone: 051- 90402227 & 90402229

Request for Proposal (RFP)

Hiring of Services for ““Post Warranty Support & Maintenance of Data Center infrastructure Hardware””

Last Date & Time for Submission: April 22, 2025, at 1:30 PM

Bid Opening Date & Time: April 22, 2025, at 2:00 PM



**HIGHER EDUCATION COMMISSIONH-9,
ISLAMABAD**

Websites: www.hec.gov.pk

Tel no. 051-90402255

(Rs. 2000/ -)

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Definitions

- 1.1. HEC: Higher Education Commission.
- 1.2. PERN: Pakistan Education & Research Network.
- 1.3. SLA: Service Level Agreement.
- 1.4. RFP: Request for Proposals.
- 1.5. BPAS: Business Process Automation System (IBM BPM)
- 1.6. MOSS: Microsoft Office SharePoint Server
- 1.7. BOQ: Bill of Quantities.
- 1.8. BOC: Bill of Cost
- 1.9. Total Bid Value: Cost of 3-year services as per BOC.
- 1.10. Total Contract Value: Cost of 3-year services as per BOC, licenses, services, etc.
- 1.11. Bidder: Bidder who has submitted the proposals.
- 1.12. Selected Bidder: Bidder selected for the award of tender.
- 1.13. first Party: Higher Education Commission
- 1.14. Second Party: Selected Bidder.
- 1.15. Service Level Agreement: The level of service which HEC purchases from vendor in respect of the service.
- 1.16. Trouble Ticket: A File that identify the fault, the technical detail.
- 1.17. Call-out Interval: The time between Network Operation Centre issuing a trouble ticket to the concerned vendor/engineer and confirming that the trouble ticket is received and accepted by the vendor.
- 1.18. Restoration Time: time measured between a trouble ticket being received and accepted by the vendor and restoration of the system(s)/service(s)/functionality (ies) in subject to operation condition.
- 1.19. Resolve: To restore the system(s)/services(s)/functionality (ies) on which a trouble ticket is issued and complete all further activities necessary to close the trouble ticket.
- 1.20. Resolution Time: The time measured between a Trouble ticket being received and accepted by the vendor and the answer to / completion of the trouble ticket.
- 1.21. Most advantageous bid: According to PPRA S. R. O. 442(I)/2020.—issued on 15th May, 2020, clause amendment “(h) “most advantageous bid” means— a bid or proposal for goods, works or services that after meeting the eligibility or qualification criteria, is found substantially responsive to the terms and conditions as set out in the bidding or request for proposals document; and (ii) evaluated as the highest ranked bid or proposal on the basis of cost or quality or qualification or any combination thereof, as specified in the bidding documents or request for proposal documents which shall be in conformity with the selection techniques to be issued by the Authority;”.

Standard Bidding Documents for Procurement of “Post Warranty Support & Maintenance of Data Center Compute Hardware”.

PART-A – BIDDING PROCEDURE & REQUIREMENTS

Section I - Invitation to Bids

Section II- Instructions to Bidders (ITB)

This Section provides information to help Bidders prepare their Bids. Information is provided for the submission, opening, and evaluation of Bids and for the award of Contract. ***This Section contains provisions those are to be used without modification(s).***

Section III- Bid Data Sheet (BDS)

This Section includes provisions specific to procurement and to supplement Section-II, Instructions to Bidders. This section may be customized where option is available, in accordance with the requirements of the HEC.

Section IV - Eligible Countries

This Section contains information regarding eligible countries.

Section V - Technical Specifications, Schedule of Requirements

This Section includes the details of specifications for the goods and ancillary services to be procured and schedule of requirements.

Section VI - Standard Forms

This Section includes the standard forms for the Bid Submission, Price Schedules, and Bid Security etc. These forms are to be completed and submitted by the Bidder as part of - Bid.

PART-B – CONDITIONS OF CONTRACT AND CONTRACT FORMS

Section VII - General Conditions of Contract (GCC)

This Section includes the general clauses to be applied in all the contracts. ***This Section contains provisions those are to be used without modifications.***

Section VIII - Special Conditions of Contract (SCC)

This Section consists of Contract Specific general and special conditions. The HEC may customize the general conditions of the contract section, in accordance with the requirements.

Section IX - Contract Forms

This Section contains forms which, once completed, will become part of the Contract. The forms for **Performance Security** will be submitted by the successful bidder to whom Letter of Acceptance is issued, before the award of contract.

Integrity Pact

The successful bidder shall be required to furnish Integrity Pact as per the attached format.

PART-A
BIDDING PROCEDURE & REQUIREMENTS

1. SECTION I: INVITATION TO BIDS



Bid No. HEC/IT/FY24-25/BR24

For

**Hiring of Services for “Post Warranty Support & Maintenance of Data Center
infrastructure Hardware and services”
Invitation to Bids**

Date: March 24, 2025

1. This Invitation to Bids follows the Procurement Notice (PN) or Procurement Advertisement (PA) for the subject Project/Procurement which appeared in national dailies vide dated March 30, 2025.
2. The HEC has reserved the funds for the procurement planned during the financial year FY 2024-25. It is intended that part of the proceeds of the fund will be used to cover eligible payment under the contract for the Hiring of Services for “Post Warranty Support & Maintenance of Data Center Compute Hardware”.
3. The Higher Education Commission now invites sealed bids from eligible Suppliers of:
 - i. Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services” as per details mentioned in SECTION V: SCHEDULE OF REQUIREMENTS, TECHNICAL SPECIFICATION & REQUIREMENT.
 - ii. HEC Datacenters hosts all the ICT services for its departments and Universities. HEC Datacenters having multiple brands of servers/storages/applications, intend to obtain the complete Warranty and support and maintenance of Data Center Hardware at Islamabad, including required product/licenses/software/hardware, support, and services for its all systems running in these Datacenters for next three years.
 - iii. The deployed infrastructure is primarily used for the HEC ICT Services/Applications and the hosted services like BPAS (Business Process Automation Services), HEC Portals on MS SharePoint, HEC locally hosted MS Exchange and HEC Website & other portals, Databases of MS SQL, MY SQL, IBM BPM & DB2, Oracle OBIEE (10g/11g), Oracle (10g, 11g), SAP and SAP HANA, for the physical/virtual platforms i.e. MS Windows, Linux, Citrix XEN, etc. and for the Data repositories and mailboxes/messages data backups and recovery.
 - iv. The successful bidder will provide support services through dedicated resource(s) as well as principal support. Following activities are required: -
 - a) The selected bidder shall provide comprehensive warranty and services including preventive/corrective maintenance of all components provisioned under this contract including technical support and required upgrades for the equipment for next three (03) years at least.
 - b) The selected bidder shall be responsible for Smooth operation of Data Centers (Islamabad, Lahore & Karachi) Operations 24/7/365 within warranty services period by deputing necessary workforce / resident engineers/technical support hours (08 engineers) as per requirement schedule.
 - c) The selected bidder shall be responsible for installation/upgradation/maintenance of

the servers, storages and network equipment cater under warrantee services as per HEC requirement and also will be responsible for configuration of the operating system, clustering service and high availability failover services, virtualization and cloud platform hosting related services for smooth functioning of the HEC ICT services via HEC datacenter(s).

- d) The selected bidder shall be responsible for the supply, installation, configuration, integration, testing and commissioning of replaced / any upgraded or new equipment under the contract, replacement of faulty equipment in HEC (Islamabad, Lahore & Karachi) Data Centers as per requirements of HEC
- e) The selected bidder shall be responsible for it end to end security configurations server, storages and network equipment
- f) The selected bidder shall be responsible for configuration of failover cluster / high availability services/cloud services and its configuration related to virtual machine services.
- g) The selected bidder shall be responsible for the provisioning of extended warranties, services and support, including upgrades as per the contract.
- h) The selected bidder shall be responsible for provisioning of comprehensive parts warranty of the equipment and shall have a 24/7 call out facility
- i) The selected bidder will extend a dedicated resource in HEC head office Islamabad to maintain and monitor backups and recovery services 24 x 7 x 365, for HEC Islamabad, Lahore and Karachi sites (or any other HEC designated site(s) as well).
- j) The selected bidder will be responsible for responding to emergency events on an urgent basis as per SLA mention in this RFP and subsequently in the contract agreement accordingly.
- k) The selected bidder shall be responsible for at least 3 years of SLA Services and Support as per BOQ and relevant term and conditions mentioned in this RFP document, in addition to the hardware/software solution components warranty and licensing services, however, pricing must be provided with yearly break down as well.
- l) The selected bidder will provide a comprehensive training to the HEC nominated resources, system admins/engineers for enablement, training, and tackling running issues for effective utilization of the deployed Infrastructure and to manage the hardware/software components of the quoted solution.
- m) The selected Bidder shall be responsible for provisioning of comprehensive parts warranty of UPS along with batteries replacement, UPS input output power DBs and cables.
- n) Preventive and corrective maintenance must be carried out on a monthly basis throughout the SLA period for power equipment and Monthly PM and CM reports shall be submitted to HEC in hard/email/fax.
- o) The selected bidder must ensure the comprehensive parts warranty and maintenance services of parts replacement as deem necessary i.e. electrical and mechanical soundness of UPS, preventive maintenance, corrective maintenance, predictive maintenance, technical assistance and any other UPS fault rectification relating to the smooth operations and safety of the UPS's throughout the SLA period.
- p) In-Case of UPS, The Selected Bidder shall be responsible for preventive and corrective maintenance as per details finalized by HEC nominated officer. The selected bidder shall clean the battery cables and terminals; tighten and apply corrosion protection

- as per details finalized by HEC nominated officer.
- q) In-case of Precision Cooling System, The Selected Bidder Shall be responsible for preventive maintenance which will include gas filling, compressor health check, condenser health check, indoor outdoor service, filter changing/cleaning etc and as per details finalized by HEC nominated officer at the time finalization of agreement.
 - r) Response time of the successful bidder in the context of warranted services at all days, 24 X 7x365, shall be 1 hour from the reporting of the fault.
 - s) The Bidders must ensure the escalation response time through their engineers in business hours, the escalation time shall be 30 minutes in working hours and 1.5 hours in non-working hours. The maximum restoration time allowed shall be three (3) hours.
4. The bidding shall be conducted in line with the Rule number 36(a) 'Single stage – Single Envelope' procedure of the Public Procurement Rules 2004 and any Regulations, Regulatory Guides, Procurement Guidelines, or Instructions issued by the Authority (from time to time) and is open to all potential bidders. The bidder with the most advantageous bid, if not in conflict with any other law, rules, regulations, or policy of the Federal Government, shall be awarded the procurement contract, within the original or extended period of bid validity.
 5. All bids must be accompanied by a Earnest Money in the form of a bank draft/Pay Order of fixed amount of Rs. 6,000,000/- drawn in favor of D.G. (Finance), Higher Education Commission, Islamabad. The Bid Security in the form of a Bank Guarantee or Insurance guarantee is not acceptable.
 6. The original bid properly filled in and enclosed in sealed envelope(s) must be delivered to the address, Higher Education Commission, Sector H9, Islamabad at or before **1:30 PM- April 22, 2025**. The bids will be opened promptly thereafter in public and in the presence of bidders' representatives who choose to attend the opening at the **Higher Education Commission, Sector H9, Islamabad, 2:00 PM- April 22, 2025 (Tuesday)**.

[Naveed Tahir, Director (PERN)/In-Charge (IT), Higher Education Commission, Sector H9, Islamabad]

[Contact: 051-90402207, 051-90402255]

2. SECTION II: INSTRUCTION TO BIDDERS (ITBs)

A. INTRODUCTION

<p>1. Scope of Bid</p>	<p>1.1</p>	<p>The Procuring Agency (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the Supply and Installation of the Information Systems as specified in the BDS and Section V, Schedule of Requirements, Technical Specification & Requirement, Technical Requirement. The successful Bidders will be expected to supply/manage the prescribed information systems Infrastructure Hardware/Software, i.e. required server, storages and Data center infrastructure within the specified period and timeline(s) as stated in the BDS.</p>
	<p>1.2</p>	<p>Unless otherwise stated throughout this document definitions and interpretations shall be as prescribed in the General Conditions of the Contract (GCC).</p>
<p>2. Source of Funds</p>	<p>2.1</p>	<p>Source of funds is referred to in Clause-2 of Invitation for Bids.</p>
<p>3. Eligible Bidders</p>	<p>3.1</p>	<p>A Bidder may be natural person, company or firm or public or semi-public agency of Pakistan</p>
	<p>3.2</p>	<p>The invitation for Bids is open to all prospective supplier, manufacturers or authorized agents/dealers subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business.</p>
	<p>3.3</p>	<p>A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidders may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:</p> <ul style="list-style-type: none"> 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 HEC to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the information systems to be procured 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 HEC regarding this Bidding process; or f) Submit more than one Bid in this Bidding process.
	<p>3.4</p>	<p>A Bidder may be ineligible if: –</p>

		<p>(a) He is declared bankrupt or, in the case of a company or firm, insolvent.</p> <p>(b) payments in favor of the Bidder shall be 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.</p> <p>(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.</p> <p>(d) The Bidder is convicted, by a final judgment, of any offence involving professional conduct.</p> <p>(e) the Bidder is blacklisted and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration.</p> <p>(f) The firm, supplier and contractor are blacklisted or debarred by a foreign country, international organization, or other foreign institutions for the period defined by them.</p>
	3.5	Bidders shall provide to the HEC evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.
	3.6	Bidders shall provide such evidence of their continued eligibility to the satisfaction of the HEC, as the HEC shall reasonably request.
	3.7	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 the more than ten (10) percent of the Bid price is envisaged.
4. Eligible Information Systems	4.1	<p>For the purposes of these Bidding Documents, the Information System means all:</p> <p>a) the required information technologies, including all information processing and communications-related hardware, software, supplies, and consumable items that the Supplier is required to supply and install under the Contract, plus all associated documentation, and all other materials and goods to be supplied, installed, integrated, and made operational (collectively called “the Goods” in some clauses of the ITB); and</p> <p>b) the related hardware/software supply, transportation, insurance, installation, customization, integration, commissioning, training, technical support, maintenance,</p>

		repair, and other services necessary for proper operation of the Information System to be provided by the selected Bidder and as specified in the Contract.
	4.2	All Information System made up of goods and services to be supplied under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to the supply and installation information systems. For purpose of this Bid, ineligible countries are stated in the section-4 titled as "Eligible Countries".
	4.3	For purposes of this Clause, "origin" means the place where the goods and services making Information System are produced in or supplied from. An Information System is deemed to be produced in a certain country when, in the territory of that country, through software development, manufacturing, or substantial or major assembly or integration of components, a commercially recognized product result that is substantially different in basic characteristic or in purpose or utility from its component.
	4.4	The nationality of the supplier that supplies and install the Information System shall not determine the origin of the goods.
	4.5	To establish the eligibility of the Goods and Services making Information System, Bidders shall fill the country-of-origin declarations included in the Form of Bid.
	4.6	If so, required in the BDS , the Bidder shall demonstrate that it has been duly authorized for the supply and installation of Information System in Pakistan (or in respective country in case of procurement by the Pakistani Missions abroad), the Information System indicated in its Bid.
5. One Bid per Bidder	5.1	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.
	5.2	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.
	5.3	A person or a firm cannot be a sub-contractor with more than one bidder in the same bidding process.
6. Cost of Bidding	6.1	The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the HEC shall in no case be responsible or liable for those costs, regardless of the conductor outcome of the bidding process.

B. BIDDING DOCUMENTS

<p>7. Contents of Bidding Documents</p>	<p>7.1</p>	<p>The Contents of the Bidding Documents listed below should be read in conjunction with any addenda issued in accordance with ITB 9.2 include:</p> <p>Section I: Invitation to Bids Section II: Instructions to Bidders (ITBs) Section III: Bid Data Sheet (BDS) Section IV: Eligible Countries Section V: Schedule of Requirements, Technical Specification & Requirement Section VI: Forms – Bid documentation Section VII: General Conditions of Contract (GCC) Section VIII: Special Conditions of Contract (SCC) Section IX: Contract Forms</p>
	<p>7.2</p>	<p>The number of copies to be completed and returned with the Bid is specified in the BDS.</p>
	<p>7.4</p>	<p>The HEC is not responsible for the completeness of the Bidding Documents and their addenda if they were not obtained directly from the HEC or the signed pdf version from downloaded from the website of the HEC. However, HEC shall place both the pdf and same editable version to facilitate the bidder for filling the forms.</p>
	<p>7.5</p>	<p>The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all the information required in the Bidding Documents will be at the Bidder's risk and may result in the rejection of his Bid.</p>
<p>8. Clarification of Bidding Documents, Pre-Bid Meeting and Site Visit</p>	<p>8.1</p>	<p>A prospective Bidder requiring any clarification of the Bidding Documents may notify the HEC in writing or in electronic form for pre-bid meeting or site visit request to gather the necessary information about the existing or required infrastructure details (only which deemed necessary to share by HEC) at the HEC's address indicated in the BDS.</p>
	<p>8.2</p>	<p>The HEC may 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 received not later than five (05) days prior to the deadline for the submission of Bids as prescribed in ITB 23.1. However, this clause shall not apply in case of alternate methods of Procurement.</p>
	<p>8.3</p>	<p>Copies of the HEC's response may be forwarded to all identified Prospective Bidders through an identified source of communication, including a description of the inquiry, but without identifying its source.</p>

	8.4	If HEC deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB 9 .
	8.5	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.
	8.6	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 HEC exclusively through the use of an Addendum pursuant to ITB 9 . Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.
	8.7	The Bidder may wish to visit and examine the site or sites of the Information System and obtain for itself, at its own responsibility and risk, all information that may be necessary for preparing the bid and entering into the Contract. The costs of visiting the site or sites shall be at the Bidder's own expense.
	8.8	The HEC will arrange for the Bidder and any of its personnel or agents to gain access to the relevant site or sites, provided that the Bidder gives the HEC adequate notice of a proposed visit of at least seven (07) days. Alternatively, the HEC may organize a site visit or visits concurrently with the pre-bid meeting, as specified in the BDS for ITB Clause 8.5. Failure of a Bidder to make a site visit will not be a cause for its disqualification.
	8.9	No site visits shall be arranged or scheduled after the given time frame or after the deadline for submission of the Bids and prior to the award of Contract.
9. Amendment of Bidding Documents	9.1	Before the deadline for submission of Bids, the HEC 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.
	9.2	Any addendum issued including the notice of any extension of the deadline shall be part of the Bidding Documents pursuant

		<p>to ITB 7.1 and shall be communicated in writing or in any identified electronic form that provide record of the content of communication to all the bidders who have obtained the Bidding Documents from the HEC. The HEC shall promptly publish the Addendum at the HEC’s web page identified in theBDS:</p> <p>Provided that the bidder who had either already submitted their bid or handed over the bid to the courier prior to the issuance of any such addendum shall have the right to withdraw his already filed bid and submit the revised bid prior to the original or extended bid submission deadline.</p>
	9.3	<p>To give prospective Bidders reasonable time in which to take an addendum/corrigendum into account in preparing their Bids, the HEC may, at its discretion, extend the deadline for the submission of Bids:</p> <p>Provided that the HEC shall extend the deadline for submission of Bid, if such an addendum is issued within last three (03) days of the Bid submission deadline.</p>

C. PREPARATION OF BIDS

10. Language of Bid	10.1	<p>The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the HEC shall be written in the English language unless otherwise specified in the BDS. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless specified in the BDS, in which case, for purposes of interpretation of the Bidder, the translation shall govern.</p>
11. Documents Constituting the Bid	11.1	<p>The Bid prepared by the Bidder shall constitute the following components: -</p> <ol style="list-style-type: none"> a) Form of Bid and Bid Prices completed in accordance with ITB 14 and 15. b) Details of the Sample(s) where applicable and requested in the BDS. c) Documentary evidence established in accordance with ITB 13 that the Bidder is eligible and/or qualified for the subject bidding process. d) Documentary evidence established in accordance with ITB 13.3(a) that the Bidder has been authorized by the manufacturer to deliver the goods and services making Information System into Pakistan, where required and where the supplier is not the manufacturer of those goods and service making Information System.

		<ul style="list-style-type: none"> e) Documentary evidence established in accordance with ITB 12 that the goods and services making Information System to be supplied by the Bidder are eligible and conform to the Bidding Documents. f) Bid security or Bid Securing Declaration furnished in accordance with ITB 18. g) Duly Notarized Power of Attorney authorizing the signatory of the Bidder to submit the bid; and h) Any other document required in the BDS.
12. Documents Establishing Eligibility of the Information System and Conformity to Bidding Documents	12.1	Pursuant to ITB 11, the Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all goods and services making information system which the Bidder proposes to deliver.
	12.2	The documentary evidence of the eligibility of the Information System shall consist of a statement in the Price Schedule of the country of origin of the goods and services making Information System offered which shall be confirmed by a certificate of origin issued at the time of shipment.
	12.3	<p>The documentary evidence of conformity of the goods and services making Information Systems to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of:</p> <ul style="list-style-type: none"> a) A detailed description of the essential technical specifications and performance characteristics of the Goods. b) An item-by-item commentary on the HEC's Technical Specifications demonstrating substantial responsiveness of the Goods and Services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications. c) Any other procurement specific documentation requirement as stated in the BDS.
	12.4	For purposes of the commentary to be furnished pursuant to ITB 12.3(c) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the HEC in its Technical Specifications, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its Bid, provided that it demonstrates to the HEC's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

	12.6	The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation into English shall be attached to the original version.
13. Documents Establishing Eligibility and Qualification of the Bidder	13.1	Pursuant to ITB 11, the Bidder shall furnish, as part of its Bid, all those documents establishing the Bidder's eligibility to participate in the bidding process and/or its qualification to perform the contract if its Bid is accepted.
	13.2	The documentary evidence of the Bidder's eligibility to Bid shall establish to the satisfaction of the HEC that the Bidder, at the time of submission of its bid, is from an eligible country as defined in Section-4 titled as "Eligible Countries".
	13.3	<p>The documentary evidence of the Bidder's qualifications to perform the contract if its Bid is accepted shall establish to the satisfaction of HEC that:</p> <ul style="list-style-type: none"> a) In the case of a Bidder offering to supply and install Information System under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the Manufacturer or producer to supply and install the information system in Pakistan. b) The Bidder has the financial, technical, and supply/production capability necessary to perform the Contract, meets the qualification criteria specified in BDS. c) In the case of a Bidder not doing business within Pakistan, the Bidder is or will be (if awarded the contract) represented by an Agent in Pakistan equipped, and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications. d) That the Bidder meets the qualification criteria listed in the Bid Data Sheet.
	13.4	<p>The documentary evidence of conformity of the Information System to the Bidding Documents shall be in the form of written descriptions, literature, diagrams, certifications, and client references, including:</p> <ul style="list-style-type: none"> a) The Bidder's technical bid, i.e., a detailed description of the Bidder's proposed technical solution conforming in all material aspects with the Technical Requirements and other parts of these Bidding Documents, overall as well as in regard to the essential technical and performance characteristics of each component making up the proposed Information System. b) An item-by-item commentary on the HEC's Technical Requirements, demonstrating the substantial

		<p>responsiveness of the Information System offered to those requirements. In demonstrating responsiveness, the commentary shall include explicit cross references to the relevant pages in the supporting materials included in the bid. Whenever a discrepancy arises between the item-by-item commentary and any catalogs, technical specifications, or other preprinted materials submitted with the bid, the item-by-item commentary shall prevail.</p> <p>c) Preliminary Project Plan describing, among other things, the methods by which the Bidder will carry out its overall management and coordination responsibilities if awarded the Contract, and the human and other resources the Bidder proposes to use. The Plan should include a detailed Contract Implementation Schedule in bar chart form, showing the estimated duration, sequence, and interrelationship of all key activities needed to complete the Contract. The Preliminary Project Plan must also address any other topics specified in the BDS. In addition, the Preliminary Project Plan should state the Bidder's assessment of what it expects the HEC and any other party involved in the implementation of the Information System to provide during implementation and how the Bidder proposes to coordinate the activities of all involved parties.</p> <p>d) A written confirmation that the Bidder accepts responsibility for the successful integration and inter-operability of all components of the Information System as required by the Bidding Documents.</p>
14. Form of Bid	14.1	The Bidder shall fill the Form of Bid furnished in the Bidding Documents. The Bid Form must be completed without any alterations to its format and no substitute shall be accepted.
15. Bid Prices	15.1	The Bid Prices and discounts quoted by the Bidder in the Form of Bid and in the Price Schedules shall conform to the requirements specified below in ITB Clause 15 or exclusively mentioned hereafter in the bidding documents.
	15.2	All items in the Schedule of requirement must be listed and priced separately in the Price Schedule(s). If a Price Schedule shows items listed but not priced, their prices shall be construed to be included in the prices of other items.
	15.3	Items not listed in the Price Schedule shall be assumed not to be included in the Bid, and provided that the Bid is still substantially responsive in their absence or due to their nominal nature, the corresponding average price of the respective item(s) of the remaining substantially responsive bidder(s) shall be construed to be the price of those missing item(s), Provided that:

		<p>a) where there is only one (substantially) responsive bidder, or</p> <p>b) where there is provision for alternate proposals and the respective items are not listed in the other bids,</p> <p>The HEC may fix the price of missing items in accordance with market survey, and the same shall be considered as final price.</p>
	15.4	The Bid price to be quoted in the Form of Bid in accordance with ITB 15.1 shall be the total price of the Bid, excluding any discounts offered.
	15.5	The Bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total Bid price of the goods it proposes to deliver under the contract.
	15.6	<p>Prices indicated on the Price Schedule shall be entered separately in the following manner:</p> <p>a) For goods manufactured from within Pakistan (or within the country where procurement is being done in case of foreign missions abroad):</p> <p>i) The price of the goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable:</p> <p>A. on the components and raw material used in the manufacturing or assembly of goods quoted ex-works or ex-factory.</p> <p>or</p> <p>B. on the previously imported goods of foreign origin quoted ex-warehouse, ex-showroom, or off-the-shelf.</p> <p>ii) all applicable taxes which will be payable on the goods if the contract is awarded.</p> <p>iii) the price for inland transportation, insurance, and other local costs incidental to delivery of the goods to their final destination, if specified in the BDS.</p> <p>iv) the price of other (incidental or allied) services, if any, listed in the BDS.</p> <p>b) For goods offered from abroad:</p> <p>i) the price of the goods shall be quoted CIF named port of destination, or CIP border point, or CIP named place of destination, in the HEC's country, as specified in the BDS. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible countries.</p>

		<p>Similarly, the Bidder may obtain insurance services from any eligible source country. or</p> <p>ii) the price of the goods quoted FOB port of shipment (or FCA, as the case may be), if specified in the BDS. or</p> <p>iii) the price of goods quoted CFR port of destination (or CPT as the case may be), if specified in the BDS.</p> <p>iv) the price for inland transportation, insurance, and other local costs incidental to delivery of the goods from the port of entry to their final destination, if specified in the BDS.</p> <p>v) the price of (incidental) services, if any, listed in the BDS.</p>
	15.7	<p>Prices proposed on the Price Schedule for goods and related services shall be disaggregated, where appropriate as indicated in this Clause. This desegregation shall be solely for the purpose of facilitating the comparison of Bids by the HEC. This, shall not in any way limit the HEC's right to contract on any of the terms and conditions offered: -</p> <p>a) For Goods: -</p> <p>i) the price of the Goods, quoted as per applicable INCOTERMS as specified in the BDS</p> <p>ii) all customs duties, sales tax, and other taxes applicable on goods or on the components and raw materials used in their manufacture or assembly, if the contract is awarded to the Bidder, and</p> <p>b) For Related Services</p> <p>i) The price of the related services, and</p> <p>ii) All customs duties, sales tax and other taxes applicable in Pakistan, paid or payable, on the related services, if the contract is awarded to the Bidder.</p>
	15.8	<p>Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A Bid submitted with an adjustable price will be treated as nonresponsive and shall be rejected, pursuant to ITB 29.</p>
	15.9	<p>If so, indicated in the Invitation to Bids and Instructions to Bidders, that Bids are being invited for individual contracts (Lots) or for any combination of contracts (packages), Bidders wishing to offer any price reduction for the award of more than one contract shall specify in their Bid the price reductions applicable to each package, or alternatively, to individual contracts (Lots) within a package.</p>
16. Bid Currencies	16.1	<p>Prices shall be quoted in the following currencies:</p>

		<p>a) For goods and services that the Bidder will deliver from within Pakistan, the prices shall be quoted in Pakistani Rupees, unless otherwise specified in the BDS.</p> <p>b) For goods and related services that the Bidder will deliver from outside Pakistan, or for imported parts or components of goods and related services originating outside Pakistan, the Bid prices shall be quoted in PKR along with USD equivalent. The rate of exchange shall be the selling rate (notified by the State Bank of Pakistan/ National Bank of Pakistan), prevailing on the date of opening of bids specified in the bidding documents.</p>
	16.2	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 (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.
	16.3	The Currency of the Contract shall be Pakistani Rupee unless otherwise stated in the BDS.
17. Bid Validity Period	17.1	Bids shall remain valid for the period specified in the BDS after the Bid submission deadline prescribed by the HEC. A Bid valid for a shorter period shall be rejected by the HEC as non-responsive. The period of Bid validity will be determined from the complementary bid securing instrument i.e., the expiry period of bid security or bid securing declaration as the case may be.
	17.2	Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the HEC may request the Bidders' consent to an extension of the period of validity of their Bids only once, for the period not more than the period of initial bid validity. The request and the Bidders responses shall be made in writing or in electronic forms that provide record of the content of communication. The Bid Security provided under ITB 18 shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension, and in compliance with ITB 18 in all respects.
	17.3	If the award is delayed by a period exceeding sixty (60) days beyond the expiry of the initial Bid validity period, the contract price may be adjusted by a factor specified in the request for extension. However, the Bid evaluation shall be based on the already quoted Bid Price without taking into consideration on the above correction.

<p>18. Bid Security or Bid Securing Declaration</p>	<p>18.1</p>	<p>Pursuant to ITB 11, unless otherwise specified in the BDS, the Bidder shall furnish as part of its Bid, a Bid Security in form offixed amount not exceeding five percent of the estimated value of procurement determined by the HEC and in the amount and currency specified in the BDS or Bid Securing Declaration as specified in the BDS in the format provided in Section VI (Standard Forms).</p>
	<p>18.2</p>	<p>The Bid Security or Bid Securing Declaration is required to protect the HEC against the risk of Bidder’s conduct which would warrant the security’s forfeiture, pursuant to ITB 18.9.</p>
	<p>18.3</p>	<p>The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the BDS which shall be in any of the following:</p> <ul style="list-style-type: none"> a) a bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the HEC and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the Bidder. b) a cashier’s or certified cheque; or c) another security if indicated in the BDS
	<p>18.4</p>	<p>The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in Section VI (Standard Forms) or another form approved by the HEC prior to the Bid submission.</p>
	<p>18.5</p>	<p>The Bid Security shall be payable promptly upon written demand by the HEC in case any of the conditions listed in ITB 18.9 are invoked.</p>
	<p>18.6</p>	<p>Any Bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with ITB 18.1 or 18.3 shall be rejected by the HEC as non-responsive, pursuant to ITB 29.</p>
	<p>18.7</p>	<p>Unsuccessful Bidders’ Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the HEC pursuant to ITB 17. The HEC shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest:</p> <ul style="list-style-type: none"> (a) the expiry of the Bid Security. (b) the entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Bidding documents;

		<p>(c) the rejection by the HEC of all Bids.</p> <p>(d) the withdrawal of the Bid prior to the deadline for the submission of Bids, unless the Bidding documents stipulate that no such withdrawal is permitted.</p>
	18.8	The successful Bidder's Bid Security will be discharged upon the Bidder signing the contract pursuant to ITB 42 , or furnishing the performance guarantee, pursuant to ITB 43 .
	18.9	<p>The Bid Security may be forfeited, or the Bid Securing Declaration executed:</p> <p>a) if a Bidder:</p> <p>i) withdraws its Bid during the period of Bid Validity as specified by the HEC, and referred by the bidder on the Form of Bid except as provided for in ITB 17.2; or</p> <p>ii) does not accept the correction of errors pursuant to ITB 31.2; or</p> <p>b) in the case of a successful Bidder, if the Bidder fails:</p> <p>i) to sign the contract in accordance with ITB 42; or</p> <p>ii) to furnish performance security (or guarantee) in accordance with ITB 43.</p>
19. Alternative Bids by Bidders	19.1	Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic Bidder's technical design as indicated in the specifications and Schedule of Requirements. Alternatives will not be considered, unless specifically allowed for in the BDS . If so allowed, ITB 19.2 shall prevail.
	19.2	When alternative schedule for supply and installation of Information System is explicitly invited, a statement of that effect will be included in the BDS as will the method for evaluating different schedule for Information System.
	19.3	If so, allowed in the BDS , Bidders wishing to offer technical alternatives to the requirements of the Bidding Documents must also submit a Bid that complies with the requirements of the Bidding Documents, including the basic technical design as indicated in the specifications. In addition to submitting the basic Bid, the Bidder shall provide all information necessary for a complete evaluation of the alternative by the HEC, including technical specifications, breakdown of prices, and other relevant details. Only the technical alternatives, if any, of the Most Advantageous Bidder conforming to the basic technical requirements (without altering the bid price) shall be considered by the HEC.
20. Withdrawal, Substitution, and Modification of Bids	20.1	Before bid submission deadline, any bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and the corresponding substitution or modification must accompany the respective written notice.

	20.2	Bids requested to be withdrawn in accordance with ITB 20.1 shall be returned unopened to the Bidders.
21. Format and Signing of Bid	21.1	The Bidder shall prepare an original and the number of copies of the Bid as indicated in the BDS , clearly marking each "ORIGINAL" and "COPY," as appropriate. In the event of any discrepancy between them, the original shall prevail.
	21.2	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, except for un-amended printed literature, shall be initialed by the person or persons signing the Bid.
	21.3	Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.

D. SUBMISSION OF BIDS

22. Sealing and Marking of Bids	22.1	In the case of Single Stage Single Envelope Procedure , according to the PPR Rule - 36. a: Procedures of open competitive bidding; the Bidder shall seal the original and each copy of the Bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY". Note: The envelopes shall be sealed and marked in accordance with the bidding procedure adopted as referred in Rule-36 (a) of PPR-2004. Both envelopes to be enclosed together in an outer single envelope called the Bid.
	22.2	The inner and outer envelopes shall: <ul style="list-style-type: none"> a) be addressed to the HEC at the address provided in the Bidding Data. b) bear the name and identification number of the contract as defined in the Bidding Data; and provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data. pursuant to ITB 23.1. c) In addition to the identification required in Sub- Clause 21.2 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 Clause IB.24.
	22.3	If all envelopes are not sealed and marked as required by ITB 22.1 , ITB 22.2 or incorrectly marked, the Procuring Agency will assume no responsibility for the misplacement or premature opening of Bid.
23. Deadline for Submission of Bids	23.1	Bids shall be received by the HEC no later than the date and time specified in the BDS .

	23.2	The procuring agency (HEC) may, in exceptional circumstances and at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with ITB 9 , in which case all rights and obligations of the HEC and Bidders previously subject to the deadline will thereafter be subject to the new deadline.
24. Late Bids	24.1	The HEC shall not consider for evaluation any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 23 .
	24.2	Any Bid received by the HEC after the deadline for submission of Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.
25. Withdrawal, Substitution, and Modification of Bids	25.1	A Bidder may withdraw, substitute, or modify its bid after submission, provided that written notice of the withdrawal, substitution, or modification is received by the HEC prior to the deadline prescribed for bid submission. All notices must be duly signed by an authorized representative and shall include a copy of the authorization (the power of attorney).
	25.2	The Bidder modification, substitution or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITB Clauses 21 and 22 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" OR "WITHDRAWAL" as appropriate. The notice may also be sent by electronic, telex and facsimile, but followed by a signed confirmation copy, postmarked no later than the deadline for submission of Bids.
	25.3	Bids may only be modified by withdrawal of the original Bids and submission of a replacement Bid in accordance with sub- Clause 25.1. Modifications submitted in any other way shall not be taken into account in the evaluation of Bids.
	25.4	Bidders may only offer discounts to or otherwise modify the prices of their Bids by substituting Bid modifications in accordance with this clause or included in the original bid submission.
	25.5	No Bid may be withdrawn, replaced or modified in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Form of Bid. Withdrawal of a Bid during this interval shall result in the Bidders forfeiture of its Bid Security or execution of the Bid Securing Declaration.
	25.6	Revised bid may be submitted after the withdrawal of the original bid in accordance with the provisions referred in ITB 22 and subsequent clauses for bid submission.

E. OPENING AND EVALUATION OF BIDS

<p>26. Opening of Bids</p>	<p>26.1</p>	<p>The Procuring agency (HEC) 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.</p>
	<p>26.2</p>	<p>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.</p>
	<p>26.3</p>	<p>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.</p>
	<p>26.4</p>	<p>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.</p>
	<p>26.5</p>	<p>The Financial Proposals will remain unopened and will be held in custody of the HEC until the specified time for their processing.</p>
	<p>26.6</p>	<p>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 HEC may consider appropriate.</p>
	<p>26.7</p>	<p>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.</p>

	26.8	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
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		by the sent Bidder's representative shall indemnify the HEC against any claim or failure to read out the correct information contained in the Bidder's Bid.
	26.9	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 ITB 24 .
	26.10	The HEC 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, including any discounts and alternative offers and the presence or absence of a Bid Security or Bid Securing Declaration.
	26.11	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.
	26.12	A copy of the minutes of the Bid opening shall be furnished to individual Bidders upon request.
	26.13	The financial proposal of bids found technically non-responsive shall be returned to the respective bidders subject to redress of the grievances from all tiers of grievances.
27. Confidentiality	27.1	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.
	27.2	Any effort by a Bidder to influence the HEC processing of Bids or award decisions may result in the rejection of its Bid.
	27.3	Notwithstanding ITB 27.2 from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the HEC 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.
28. Clarification of Bids	28.1	To assist in the examination, evaluation and comparison of Bids of the Bidders, the HEC may, ask any Bidder for a clarification. Any clarification submitted by a Bidder that is not in response to a request by the HEC shall not be considered.
	28.2	The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication

	28.3	<p>The alteration or modification in THE BID which in any affect the following parameters will be considered as a change in the substance of a bid:</p> <ul style="list-style-type: none"> a) evaluation & qualification criteria. b) required scope of work or specifications. c) all securities requirements. d) tax requirements. e) terms and conditions of bidding documents. f) change in the ranking of the bidder
	28.4	<p>From the time of Bid opening to the time of Contract award if any Bidder wishes to contact the HEC 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.</p>
29. Preliminary Examination of Bids	29.1	<p>Prior to the detailed evaluation of Bids, the HEC will determine whether each Bid:</p> <ul style="list-style-type: none"> a) meets the eligibility criteria defined in ITB 3 and ITB 4 and in other relevant clauses/sections. b) has been prepared as per the format and contents defined by the HEC 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. <p>The HEC's determination of a Bid's responsiveness will be based on the contents of the Bid itself.</p>
	29.2	<p>A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one that: -</p> <ul style="list-style-type: none"> a) affects in any substantial way the scope, quality, or performance of the Services. b) limits in any substantial way, inconsistent with the Bidding Documents, the HEC's rights or the Bidders obligations under the Contract; or c) if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.
	29.3	<p>The HEC will confirm that the documents and information specified under ITB 11, 12 and 13 have been provided in the Bid. If any of these documents or information is missing, or is not provided in accordance with the Instructions to Bidders, the Bid shall be rejected.</p>
	29.4	<p>The Procuring Agency may waive off any minor informality, nonconformity, or irregularity in a Bid which does not constitute a</p>

		<p>material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.</p> <p>Explanation: A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some immaterial defect in a Bid or variation of a bid from the exact requirements of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the supplies or services being acquired. The Procuring Agency either shall give the bidder an opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the Procuring Agency. Examples of minor informalities or irregularities include failure of a bidder to –</p> <ul style="list-style-type: none"> a) Submit the number of copies of signed bids required by the invitation; b) Furnish required information concerning the number of its employees; c) the firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.
	29.5	<p>Provided that a Technical Bid is substantially responsive, the HEC may request the Bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p>
	29.6	<p>Provided that a Technical Bid is substantially responsive, the HEC shall rectify quantifiable nonmaterial nonconformities or omissions related to the Financial Proposal. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of the missing or nonconforming item or component.</p>
	29.7	<p>If a Bid is not substantially responsive, it will be rejected by the HEC and may not subsequently be evaluated for complete technical responsiveness.</p>
30. Examination of Terms and Conditions; Technical Evaluation	30.1	<p>The HEC 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.</p>

	30.2	The HEC shall evaluate the technical aspects of the Bid submitted in accordance with ITB 22 , to confirm that all requirements specified in Section V – Schedule of Requirements, Technical Specifications of the Bidding Documents have been met without material deviation or reservation.
	30.3	If after the examination of the terms and conditions and the technical evaluation, the HEC determines that the Bid is not substantially responsive in accordance with ITB 29 , it shall reject the Bid.
31. Correction of Errors	31.1	<p>Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -</p> <ul style="list-style-type: none"> 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 HEC 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 e) elimination of other errors.
	31.2	The amount stated in the Bid will, be adjusted by the HEC in accordance with the above procedure for the correction of errors and, with, 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 18.9 .

<p>32. Conversion to Single Currency</p>	<p>32.1</p>	<p>To facilitate evaluation and comparison, the HEC will convert all Bid prices expressed in the amounts in various currencies in which the Bid prices are payable. 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 (financial part of) bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.</p>
	<p>32.2</p>	<p>The currency selected for converting Bid prices to a common base for the purpose of evaluation, along with the source and date of the exchange rate, are specified in the BDS.</p>
<p>33. Evaluation of Bids</p>	<p>33.1</p>	<p>The HEC shall evaluate and compare only the Bids determined to be substantially responsive, pursuant to ITB 29.</p>
	<p>33.2</p>	<p>In evaluating the Technical Proposal of each Bid, the HEC shall use the criteria and methodologies listed in the BDS and in terms of Statement of Requirements and Technical Specifications. No other evaluation criteria or methodologies shall be permitted.</p>
	<p>33.3</p>	<p>The HEC's evaluation of a Bid will take into account:</p> <ul style="list-style-type: none"> a) in the case of goods manufactured in Pakistan or goods of foreign origin already imported in Pakistan, Income Tax, General Sales Tax and other similar/applicable taxes, which will be payable on the goods if a contract is awarded to the Bidder. b) in the case of goods of foreign origin offered from abroad, customs duties and other similar import taxes which will be payable on the goods if the contract is awarded to the Bidder; and
	<p>33.4</p>	<p>The comparison shall be between the EXW price of the goods offered from within Pakistan, such price to include all costs, as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods, and named port of destination, border point, or named place of destination) in accordance with applicable INCOTERM in the price of the goods offered from outside Pakistan.</p> <p>In evaluating the Bidders, the evaluation committee will, in addition to the Bid price quoted in accordance with ITB 15.1, take account of one or more of the following factors as specified in the BDS, and quantified in ITB 32.5:</p> <ul style="list-style-type: none"> a) Cost of inland transportation, insurance, and other costs within the Pakistan incidental to delivery of the goods to their final destination. b) Delivery schedule offered in the Bid. c) Deviations in payment schedule from that specified in the

		<p>Special Conditions of Contract.</p> <p>d) The cost of components, mandatory spare parts, and service.</p> <p>e) The availability (in Pakistan) of spare parts and after-sales services for the equipment offered in the Bid.</p> <p>f) The projected operating and maintenance costs during the life of the equipment.</p> <p>g) The performance and productivity of the equipment offered; and/or Other specific criteria indicated in the TBS and/or in the Technical Specifications.</p>
	33.5	<p>For factors retained in BDS, pursuant to ITB 33.4 one or more of the following quantification methods will be applied, as detailed in the BDS:</p> <p><i>(a) Inland transportation from EXW/port of entry/border point, Insurance and incidentals.</i></p> <p>Inland transportation, insurance, and other incidental costs for delivery of the goods from EXW/port of entry/border point to Project Site named in the BDS will be computed for each Bid by the PA on the basis of published tariffs by the rail or road transport agencies, insurance companies, and/or other appropriate sources. To facilitate such computation, Bidder shall furnish in its Bid the estimated dimensions and shipping weight and the approximate EXW or as per applicable INCOTERM value of each package. The above cost will be added by the HEC to EXW or as per applicable INCOTERM price.</p> <p><i>(b) delivery schedule.</i></p> <p>i) The HEC requires that the goods under the Invitation for Bids shall be delivered (shipped) at the time specified in the Schedule of Requirements. The estimated time of arrival of the goods at the Project Site will be calculated for each Bid after allowing for reasonable international and inland transportation time. Treating the Bid resulting in such time of arrival as the base, a delivery “adjustment” will be calculated for other Bids by applying a percentage, specified in the BDS, of the EXW or as per applicable INCOTERM price for each week of delay beyond the base, and this will be added to the Bid price for evaluation. No credit shall be given to early delivery.</p> <p style="text-align: center;">Or</p> <p>ii) The goods covered under this invitation are required to be delivered (shipped) within an acceptable range of weeks specified in the Schedule of Requirement. No credit will be</p>

given to earlier deliveries, and Bids offering delivery beyond this range will be treated as non-responsive. Within this acceptable range, an adjustment per week, as specified in the **BDS**, will be added for evaluation to the Bid price of Bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements.

Or

- (iii) The goods covered under this invitation are required to be delivered (shipped) in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the Bid price a factor equal to a percentage, specified in the **BDS**, of EXW or as per applicable INCOTERM price per week of variation from the specified delivery schedule.

(d) Deviation in payment schedule.

- i) Bidders shall state their Bid price for the payment schedule outlined in the **SCC**. Bids will be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in Bid price they wish to offer for such alternative payment schedule. The HEC may consider the alternative payment schedule offered by the selected Bidder. or

Or

- ii) The **SCC** stipulates the payment schedule offered by the HEC. If a Bid deviates from the schedule and if such deviation is considered acceptable to the HEC, the Bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the Bid as compared with those stipulated in this invitation, at the rate per annum specified in the **BDS**.

(e) Cost of spare parts

- i) The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the **BDS**, is annexed to the Technical Specifications. The total cost of these items, at the unit prices quoted in each Bid, will be added to the Bid price.

Or

- ii) The HEC will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the **BDS**. The total cost of these items and quantities will be computed from spare parts

unit prices submitted by the Bidder and added to the Bid price.

Or

iii) The HEC will estimate the cost of spare parts usage in the initial period of operation specified in the **BDS**, based on information furnished by each Bidder, as well as on past experience of the HEC or other Procuring Agency's in similar situations. Such costs shall be added to the Bid price for evaluation.

(f) Spare parts and after sales service facilities in Pakistan

The cost to the HEC of establishing the minimum service facilities and parts inventories, as outlined in the **BDS** or elsewhere in the Bidding Documents, if quoted separately, shall be added to the Bid price.

(g) Operating and maintenance costs

Since the operating and maintenance costs of the goods under procurement form a major part of the life cycle cost of the equipment, these costs will be evaluated in accordance with the criteria specified in the **BDS** or in the Technical Specifications.

(h) Performance and productivity of the equipment

i. Bidders shall state the guaranteed performance or efficiency in response to the Technical Specification. For each drop in the performance or efficiency below the norm of 100, an adjustment for an amount specified in the **BDS** will be added to the Bid Price, representing the capitalized cost of additional operating costs over the life of the plant, using the methodology specified in the **BDS** or in the Technical Specifications.

Or

ii. Goods offered shall have a minimum productivity specified under the relevant provision in the Technical Specifications to be considered responsive. Evaluation shall be based on the cost per unit of the actual productivity of goods offered in the Bid, and adjustment will be added to the Bid price using the methodology specified in the **BDS** or in the Technical Specifications.

(i) Specific additional criteria.

Other specific additional criteria to be considered in the evaluation and the evaluation method shall be detailed in the **BDS** and/or the Technical Specifications.

	33.6	If these Bidding Documents allow Bidders to quote separate prices for different Lots, and the award to a single Bidder of multiple Lots, the methodology of evaluation to determine the lowest evaluated Lot combinations, including any discounts offered in the Form of Bid, is specified in the BDS .
34. Domestic Preference	34.1	If the BDS so specifies, the HEC will grant a margin of preference to certain goods in line with the rules, regulations, regulatory guides or instructions issued by the Authority from time to time.
35. Determination of Most Advantageous Bid	35.1	In case where the HEC adopts the Cost Based Evaluation Technique and, the Bid with the lowest evaluated price from amongst those which are eligible, compliant and substantially responsive shall be the Most Advantageous Bid.
	35.2	<p>The Procuring Agency (HEC) may adopt the Quality & Cost Based Selection Technique due to the following two reasons:</p> <ol style="list-style-type: none"> a. Where the Procuring Agency (HEC) knows about the main features, usage and output of the products; however not clear about the complete features, technical specifications and functionalities of the goods to be procured and requires the bidders to submit their proposals defining those features, specifications and functionalities; or b. Where the Procuring Agency (HEC), in addition to the mandatory requirements and mandatory technical specifications, requires parameters specified in Evaluation Criteria to be evaluated while determining the quality of the goods: <p>In such cases, the Procuring Agency (HEC) may allocate certain weightage to these factors as a part of Evaluation Criteria, and may determine the ranking of the bidders on the basis of combined evaluation in accordance with provisions of Rule 2(1)(h) of PPR-2004.</p>
36. Post-Qualification of Bidders and/or Abnormally Low Financial Proposal	36.1	<p>After determining the Most Advantageous Bid, if neither the pre-qualification was undertaken separately nor any qualification parameters were undertaken as part of determining the Most Advantageous Bid, the Procuring Agency shall carry out the post-qualification of the Bidder using only the requirements specified in the BDS.</p> <p>In case of International Tendering, the parameters for incorporation or licensing within Pakistan may be fulfilled as part of post qualification.</p> <p>Where the Bid price is considered to be abnormally low, the HEC shall perform price analysis either during determination of Most Advantageous Bid or as a part of the post-qualification process. The following process shall apply:</p> <ol style="list-style-type: none"> (a) The HEC may reject a Bid if the HEC has determined that the price in combination with other constituent elements of the Bid is abnormally low in relation to the subject matter of the procurement (i.e. scope of the procurement or ancillary services) and raises concerns as to the capability and capacity of the respective Bidder to perform that

		<p>contract;</p> <p>(b) Before rejecting an abnormally low Bid the HEC shall request the Bidder an explanation of the Bid or of those parts which it considers contribute to the Bid being abnormally low; take account of the evidence provided in response to a request in writing; and subsequently verify the Bid or parts of the Bid being abnormally low;</p> <p>(c) The decision of the HEC to reject a Bid and reasons for the decision shall be recorded in the procurement proceedings and promptly communicated to the Bidder concerned.</p> <p>(d) The HEC shall not incur any liability solely by rejecting abnormally Bid; and</p> <p>(e) An abnormally low Bid means, in the light of the HEC's estimate and of all the Bids submitted, the Bid appears to be abnormally low by not providing a margin for normal levels of profit.</p> <p>Guidance for Procuring Agency: In order to identify the Abnormally Low Bid (ALB) following approaches can be considered to minimize the scope of subjectivity:</p> <p>(f) Comparing the bid price with the cost estimate.</p> <p>(g) Comparing the bid price with the bids offered by other bidders submitting substantially responsive bids; and</p> <p>(h) Comparing the bid price with prices paid in similar contracts in the recent past either government- or development</p> <p>(i) partner-funded.</p>
	36.2	The HEC will determine to its satisfaction whether the Bidder that is selected as having submitted the most advantageous Bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in ITB 13.3.
	36.3	The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 13.3, as well as such other information as the HEC deems necessary and appropriate. Factors not included in these Bidding Documents shall not be used in the evaluation of the Bidders' qualifications.

	36.4	<p>HEC may seek “Certificate for Independent Price Determination” from the Bidder and the results of reference checks may be used in determining award of contract.</p> <p>Explanation: The Certificate shall be furnished by the bidder. The bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.</p>
	36.5	<p>An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder’s Bid, in which event the HEC will proceed to the next ranked bidder to make a similar determination of that Bidder’s capabilities to perform satisfactorily.</p>

F. AWARD OF CONTRACT

37. Criteria of Award	37.1	<p>Subject to ITB 35, 36 and relevant ITB clauses, the HEC will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the Bidding Documents and who has been declared as Most Advantageous Bidder, provided that such Bidder has been determined to be:</p> <ul style="list-style-type: none"> a) Eligible in accordance with the provisions of ITB 3; b) Is determined to be qualified to perform the Contract satisfactorily; and c) Successful negotiations have been concluded, if any. <p>HEC shall adopt the Cost Based Evaluation Technique to finalize the award of contract. Where, only the technically qualified Bid as per ITB with the lowest price from amongst those which are eligible, compliant and substantially responsive shall be the Most Advantageous Bid.</p>
38. Negotiations	38.1	<p>Negotiations may be undertaken with the Most Advantageous Bid relating to the following areas:</p> <ul style="list-style-type: none"> (a) a minor alteration to the technical details of the statement of requirements. (b) reduction of quantities for budgetary reasons, where the reduction is in excess of any provided for in the Bidding documents. (c) a minor amendment to the special conditions of Contract. (d) finalizing payment arrangements. (e) delivery arrangements. (f) the methodology for provision of related services; or (g) clarifying details that were not apparent or could not be finalized at the time of Bidding;

	38.2	Where negotiation fails to result into an agreement, the HEC may invite the next ranked Bidder for negotiations. Where negotiations are commenced with the next ranked Bidder, the HEC shall not reopen earlier negotiations.
39. Procuring Agency's (HEC) Right to reject All Bids	39.1	Notwithstanding ITB 37 , the HEC reserves the right to reject all the bids, and to annul the Bidding process at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders. However, the Authority (i.e., PPRA) may call from the HEC the justification of those grounds.
	39.2	Notice of the rejection of all Bids shall be given promptly to all Bidders that have submitted Bids.
	39.3	The HEC shall upon request communicate to any Bidder the grounds for its rejection of its Bids but is not required to justify those grounds.
40. Procuring Agency's (HEC) Right to Vary Quantities at the Time of Award	40.1	The HEC reserves the right at the time of contract award to increase or decrease the quantity of goods or related services originally specified in these Bidding Documents (schedule of requirements) provided this does not exceed by the percentage indicated in the BDS, without any change in unit price or other terms and conditions of the Bid and Bidding Documents.
41. Notification of Award	41.1	Prior to the award of contract, the HEC shall issue a Final Evaluation Report giving justification for acceptance or rejection of the bids.
	41.2	Where no complaints have been lodged, the Bidder whose Bid has been accepted will be notified of the award by the HEC prior to expiration of the Bid Validity period in writing or electronic forms that provide record of the content of communication. The Letter of Acceptance will state the sum that the HEC will pay the successful Bidder in consideration for the execution of the scope of works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).
	41.3	The notification of award will constitute the formation of the Contract, subject to the Bidder furnishing the Performance guarantee in accordance with ITB 43 and signing of the contract in accordance with ITB 42.2 .
	41.4	Upon the successful Bidder's furnishing of the performance security guarantee pursuant to ITB 43 , the HEC will promptly notify each unsuccessful Bidder, the name of the successful Bidder and the Contract amount and will discharge the Bid Security or Bid Securing Declaration of the Bidders pursuant to ITB 18.7 .

42. Signing of Contract	42.1	Promptly after notification of award, HEC shall send the successful Bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.
	42.2	Immediately after the Redressal of grievance by the GRC, and after fulfillment of all condition's precedent of the Contract Form, the successful Bidder and the HEC shall sign the contract.
	42.3	Where no formal signing of a contract is required, purchase order issued to the bidder shall be construed to be the contract.
43. Performance Security (or Guarantee)	43.1	After the receipt of the Letter of Acceptance, the successful Bidder, within the specified time, shall deliver to the HEC a Performance Guarantee in the amount and in the form stipulated in the BDS and SCC , denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.
	43.2	<p>If the Performance Security Guarantee is provided by the successful Bidder and it shall be in the form specified in the BDS which shall be in any of the following:</p> <ul style="list-style-type: none"> (a) certified cheque, cashier's or manager's cheque, or bank draft. (b) irrevocable letter of credit issued by a Scheduled bank or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a Scheduled bank; (c) bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign Bidder, bonded by a foreign bank; or (d) surety bond callable upon demand issued by any reputable surety or insurance company. <p>Any Performance Security (or guarantee) submitted shall be enforceable in Pakistan.</p>
	43.3	Failure of the successful Bidder to comply with the requirement of ITB 43.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security, in which event the HEC may make the award to the next ranked Bidder or call for new Bids.
44. Advance Payment	44.1	The advance payment will not be provided in normal circumstances.
45. Arbitrator	45.1	The Arbitrator shall be appointed by mutual consent of both parties as per the provisions specified in the SCC.

46. Corrupt & Fraudulent Practices	46.1	Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid engaging in any corrupt and fraudulent practices.
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G. GRIEVANCE REDRESSAL & COMPLAINT REVIEW MECHANISM

47. Constitution of Grievance Redressal	47.1	HEC shall constitute a Grievance Redressal Committee (GRC) comprising of an odd number of persons with proper power and authorization to address the complaint. The GRC shall not have any of the members of Procurement Evaluation Committee. The committee must have one subject specialist depending on the nature of the procurement.
48. GRC Procedure	48.1	Any party can file its written complaint against the eligibility parameters, or any other terms and conditions prescribed in the prequalification or bidding documents found contrary to provision of Procurement Regulatory Framework, and the same shall be addressed by the GRC well before the bid submission deadline.
	48.2	Any Bidder feeling aggrieved by any act of the HEC after the submission of his bid may lodge a written complaint concerning his grievances not later than seven days of the announcement of technical evaluation report and five days after issuance of final evaluation report.
	48.3	In case, the complaint is filed against the technical evaluation report, the GRC shall suspend the procurement proceedings.
	48.4	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.
	48.5	The GRC, in both the cases shall investigate and decide upon the complaint within ten days of its receipt.
	48.6	Any bidder or the HEC not satisfied with the decision of the GRC may file Appeal before the Appellate Committee of the Authority on prescribed format after depositing the Prescribed fee.
	48.7	The Committee, upon receipt of the Appeal against the decision of the GRC complete in all respect shall serve notices in writing upon all the parties to appeal.
	48.8	The committee shall call the record from the concerned HEC or the GRC as the case may be, and the same shall be provided within prescribed time.

	48.9	The committee may after examination of the relevant record and hearing all the concerned parties, shall decide the complaint within fifteen (15) days of receipt of the Appeal.
	48.10	The decision of the Committee shall be in writing and shall be signed by the Head and each Member of the Committee. The decision of the committee shall be final.

H. MECHANISM OF BLACKLISTING

49. Mechanism of Blacklisting	49.1	The HEC shall bar for not more than the time prescribed in Rule-19 of the Public Procurement Rules, 2004, from participating in their respective procurement proceedings, bidder or contractor who either: <ul style="list-style-type: none"> i. Involved in corrupt and fraudulent practices as defined in Rule-2 of Public Procurement Rules. ii. Fails to perform his contractual obligations; and iii. Fails to abide by the id securing declaration;
	49.2	The show cause notice shall contain: <ul style="list-style-type: none"> (a) precise allegation, against the bidder or contractor. (b) the maximum period for which the HEC proposes to debar the bidder or contractor from participating in any public procurement of the HEC; and (c) the statement, if needed, about the intention of the HEC to make a request to the Authority for debarring the bidder or contractor from participating in public procurements of all the procuring agencies.
	49.3	The HEC shall give minimum of seven days to the bidder or contractor for submission of written reply of the show cause notice
	49.4	In case, the bidder or contractor fails to submit written reply within the requisite time, the HEC may issue notice for personal hearing to the bidder or contractor/ authorize representative of the bidder or contractor and the HEC shall decide the matter on the basis of available record and personal hearing, if availed.
	49.5	In case the bidder or contractor submits written reply of the show cause notice, the HEC may decide to file the matter or direct issuance of a notice to the bidder or contractor for personal hearing.
	49.6	The HEC shall give minimum of seven days to the bidder or contractor for appearance before the specified officer of the HEC for personal hearing. The specified officer shall decide the matter on the basis of the available record and personal hearing of the bidder or contractor, if availed

	49.7	The HEC shall decide the matter within fifteen 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.
	49.8	The HEC shall communicate to the bidder or contractor the order of debarring the bidder or contractor from participating in any public procurement with a statement that the bidder or contractor may, within thirty days, prefer a representation against the order before the Authority.
	49.9	Such blacklisting or barring action shall be communicated by the HEC to the Authority and respective bidder or bidders in the form of decision containing the grounds for such action. The same shall be publicized by the Authority after examining the record whether the procedure defined in blacklisting and debarment mechanism has been adhered to by the HEC.
	49.10	The bidder may file the review petition before the Review Petition Committee Authority within thirty days of communication of such blacklisting or barring action after depositing the prescribed fee and in accordance with "Procedure of filing and disposal of review petition under Rule-19(3) Regulations, 2021". The Committee shall evaluate the case and decide within ninety days of filing of review petition
	49.11	The committee shall serve a notice in writing upon all respondent of the review petition. The notices shall be accompanied by the copies of review petition and all attached documents of the review petition including the decision of the HEC. The parties may file written statements along with essential documents in support of their contentions. The Committee may pass such order on the representation may deem fit.
	49.12	The Authority on the basis of decision made by the committee either may debar a bidder or contractor from participating in any public procurement process of all or some of the procuring agencies for such period as the deemed appropriate or acquit the bidder from the allegations. The decision of the Authority shall be final.

I. Evaluation and Qualification Criteria

Technical Evaluation & Mandatory Requirements Criteria for Firm

Sr#	Attributes	Ref. Page#
	All technical and functional attributes must be supported with documentary evidences. Any document without proof or facts and figures wherever deemed to be provided will not be accepted as evidence. Required facts and figures must be mentioned clearly and flagged properly on the evidence of proof documents.	Documentary Proof
Part A) Mandatory Conditions for bidder (Note: if any of the following mandatory conditions is not fulfilled, bid may be rejected in technical evaluation process.)		
1.	Private limited Firms with Income Tax Certificate / GST Certificate and SECP registered. (Documentary evidence required)	
2.	Affidavit (that the firm has not been blacklisted by private, Govt., Semi Govt. and Autonomous Body) on Rs.200 Stamp Paper. (Documentary evidence required)	

3.	At least five (5) years of relevant experience in Implementation of Datacenters/ Information systems projects (Proof of company being in operation for at least last three (03) years in Pakistan in relevant business). (Documentary evidence required)	
4.	Must be an authorized Partner for quoted/required solution products principal etc. for at least three (03) years in Pakistan. (Documentary evidence required)	
5.	Location of Branch Offices (Islamabad/Rawalpindi, Lahore, Karachi) (documentary evidence required)	
6.	Principal's Authorization Letter for participation of Firm for this tender certifying the competency of firm (documentary evidence required)	
7.	Technical Compliance Sheet (Annex I: Technical Service Requirement) (clause by clause compliance of RFP with Component Level part numbers and reference brochures). (Documentary evidence required wherever its deemed necessary by HEC)	
8.	Completely filled BoC (as part of Financial Bid)	
9.	Project Execution Plan (Timelines, Resources, dedicated Staff, Shared Staff, etc.)	
10.	BOQ (Component Level part numbers and reference brochures).	
11.	The firm must have more than Rs. 25 million annual Turnover in IT Services and Solutions for the last two (02) years. (Documentary evidence required)	
12.	Firm Must have at least Eight (08) Information System Certified Consultants/ Engineers. (Documentary evidence required)	
13.	Corporate Profile: Company must be in Operations for minimum last 3 years or more, and also provide Bidder's Financial Strength (last Three years) with proof.	
14.	Relevant Technical Staff Certified Engineers/staff (min. 8) for configuring all items/equipment related to Datacenter infrastructure and information systems for provision of support services as per scope of the project and quoted solutions.	
15.	Datacenter and Information Systems projects: Firm has successfully completed minimum 2 implementation/ Service Level Agreements in past, of Datacenter and Information System projects. Preferably the Bidder have completed at least two datacenters' projects of large scale amounting 100 million PKR or more, implementations in Pakistan in last five years.	
16.	Firm has at least one Datacenter and Information System SLA Projects of same scope, currently in hand in Pakistan with any organization.	
17.	Bidder's Project Commitments and SLA documentation: Datacenter infrastructure and Information Systems / Services/Solution Maintenance Committed Up time (e.g., min 99%), with comprehensive warranty, and services support/SLA implementation plan which includes the dedicated Resources deputed to HEC to run O&M as per scope of the project. (Min. required 8 resources as per requirement of HEC), along with Principal Support services commitment assurance by the bidder/principal for availability of Parts/components as per SLA commitments till the project completion in case of any fault remedial or complete part replacement etc, as required by HEC to ensure the smooth functionality of the datacenter and information systems. (Complete documentary evidences and SLA plan, Resident Engineers profiles, Operations & Maintenance Plan document as per commitment claims (Responsibility area matrix, Standard Operating Procedures (SoP), Response Time, Resolution time, Project Execution matrix & timelines and other technical/functional obligations matrices for smooth O&M services etc.) Note: Above mentioned all detailed documents must be provided with the bid document with clear flags marking w.r.t each required document.	
18.	Services and Data Migration: Firm must confirm the principal support and technical services assistance in services and data migration on the warranty renewal / upgradation of hardware along with all related software/hardware compatibility assurance etc. A well-documented migration plan needs to be submitted/vetted with HEC team and replacement hardware/software must be tested and verified before performing the migration activities etc. Furthermore, delivered equipment must be tested at HEC via rigorous test cases for hardware and software or any other related technical and functional compatibility and services operability up to HEC's satisfaction benchmarks to ensure the smooth operations	

	afterwards.	
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Most Important Notes for bidders:

- **All necessary documentation and evidence of proof must be provided and properly labelled and listed/referenced as per the above evaluation criteria and must be indexed on the above given evaluation sheet column 6 as well, by the bidders otherwise documents shall be considered missing.**
- In case of any ambiguity of documents and their arrangement or found incorrect by the evaluation team, the document shall be considered unavailable, and it may lead to zero marking.
- Any missing document shall be considered unavailable, and no clarification may be made later after the submission of bids.
- Only the evaluation team may ask for any clarification of documentation or information from the bidders if deemed necessary to the HEC.
- HEC shall adopt the **Least Cost Based Evaluation Technique** to finalize the award of contract. Where, only the technically qualified Bid with the lowest price from amongst those which are eligible, compliant, and substantially responsive shall be the Most Advantageous Bid.
- Financial proposal of only technically qualified bidder will be considered for **Most advantageous bid Selection**: According to PPRA S. R. O. 442(I)/2020.—issued on 15th May 2020, clause amendment “(h) “most advantageous bid” means: —
 - (i) a bid or proposal for goods, works or services that after meeting the eligibility or qualification criteria, is found substantially responsive to the terms and conditions asset out in the bidding or request for proposals document; and
 - (ii) evaluated as the highest ranked bid or proposal on the basis of cost or quality or qualification or any combination thereof, as specified in the bidding documents or request for proposal documents which shall be in conformity with the selection techniques to be issued by the Authority;”.
- Bidders shall submit Financial Proposals along with brochures/data sheets explaining of the items quoted. Further bid submission section of ITB may be followed for details.
- Bidders shall submit a signed letter with Official stamp affixed on it as per the format given in Annex-I as a cover letter to the Bid/Proposal. Bids/Proposals submitted without this cover letter will not be accepted and bids will likely be rejected straightaway.

3. SECTION III: BID DATA SHEET

BID DATA SHEET (BDS)

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

A. Introduction

BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
1.	1.1	<p>Name of HEC: <i>[Higher Education Commission]</i>.</p> <p>The Project description is: Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services”, which includes:</p> <ul style="list-style-type: none"> i. HEC Datacenters in Islamabad, Lahore and Karachi, are hosting the ICT services for its internal departments, Universities and for students’ facilitation in services like, degree attestation and equivalence, scholarship portals, SAP financial services, and education testing services and many more. ii. For the smooth functioning of HEC ICT services, it is mandatory to perform the HEC Data Center operations in timely and proactive manner. For this, Higher Education Commission (HEC) wants renewal of warranty services SLA for datacenter infrastructure (hardware/software) and its operations i.e. compute, storage, precision cooling and power units etc. installed in Islamabad Data Centers for next three years as per details mentioned in SECTION V: SCHEDULE OF REQUIREMENTS, TECHNICAL SPECIFICATION & REQUIREMENT. iii. The successful bidder will provide warrantee and support services for datacenter infrastructure through dedicated resource(s) as well as principal premium support for min. 3 years from the date of service delivery. iv. The Selected Bidder shall be responsible for Smooth operation of Data Centers Islamabad Operations 24/7/365 within warranty services period by deputing necessary workforce / resident engineers (08) in Islamabad, and one on each site- Lahore and Karachi Data Centers. v. The selected bidder shall be responsible for installation of the servers, storages and network equipment cater under warrantee services as per HEC requirement and also will be responsible for configuration of the operating system, clustering service and any high availability failover services. vi. The Selected Bidder shall be responsible for the supply, installation, configuration, integration, testing and

		<p>commissioning of replaced faulty equipment in HEC Islamabad Data Centers as per requirements of HEC.</p> <p>vii. The selected bidder shall be responsible for it end to end security configurations server, storages and network equipment.</p> <p>viii. The selected bidder shall be responsible for configuration of failover cluster / high availabilities services and its configuration related to virtual machine services.</p> <p>ix. The selected bidder shall be responsible for the provisioning of extended warranties, services and support.</p> <p>x. The selected Bidder shall be responsible for provisioning of comprehensive parts warranty of the equipment and shall have a 24/7 call out facility.</p> <p>xi. The selected bidder shall be responsible to respond to events on urgent basis as per SLA mention in this RFP for three (03) years.</p>
2.	2.1 & 2.2	<p>Financial year for the operations of the HEC: [2024-25] Name of Project: [Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services”]</p> <p>Description: [Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services” (including Software Licenses/Services & Support) as per details mentioned in SECTION V: SCHEDULE OF REQUIREMENTS, TECHNICAL SPECIFICATION & REQUIREMENT. Furthermore, the successful bidder will provide support services through dedicated resource(s) as well as principal premium support for min. 3 years from the date of service delivery.</p> <p>Service Delivery: The services will be provided at HEC Head Office Islamabad.</p> <p>Period for delivery: The services under this Project/ Contract are intended for three years from the date of signing of Contract Agreement with the successful bidder. The contract may be extended as per the provision in PPRA rules with mutual consent and with necessary approvals from the worthy authority HEC].</p> <p>Name of financing institution: [Higher Education Commission]</p> <p>Name and identification number of the Contract: Hiring of Services for “Post Warranty Support & Maintenance of Data Center Hardware” – HEC/IT/FY24-25/BR24.</p>
3.	3.1	Joint Venture is not applicable
4.	4.1	Demonstration of authorization by manufacturer: <i>[required]</i>

B. Bidding Documents

5.	5.1	The number of documents to be completed and returned is one original	
6.	6.1	The address for clarification of Bidding Documents is,	
		Mr. Naveed Tahir Director (PERN) Higher Education Commission, Islamabad Office: 051-90402207 Email: ntahir@hec.gov.pk	Mr. S.M Jamil Shah Assist. Director (S.M) Higher Education Commission, Islamabad Office: 051 9040 2255 Email: smjshah@hec.gov.pk
	6.2	Pre-bid meeting: only If required, the Pre-bid meeting will be held on any suitable date and time set by HEC, at least two (2) working days before bid submission deadline, at Higher Education Commission, Sector H-9, Islamabad.	

C. Preparation of Bids

7.	7.1	The Language of all correspondences and documents related to the Bid is English.
8.	8.1	<p>In addition to the documents stated in ITB 11 & in Section II – ITB: I. Evaluation and Qualification Criteria, the following documents are also mandatory and must be included with the Bid.</p> <p>I. For this tender PPRA’s Rule number 36(a) ‘Single stage - Single Envelope Procedure’ for open competitive bidding shall be adopted.</p> <p>II. The bidder is required to submit Bid in Single Envelope. Envelope should also be labeled with the name, address and contact number of the bidding company.</p> <p>III. Bidders shall submit Financial Proposals along with brochures/data sheets explaining of the items quoted.</p> <p>IV. Bidders shall submit a signed letter with Official stamp affixed on it as per the format given in Annex-I as a cover letter to the Bid/Proposal. Bids/Proposals submitted without this cover letter will not be accepted and bids will likely be rejected straightaway.</p> <p>V. Bidders shall provide Company Profile, authorization & relationship with principal firm(s), location of branch offices, company experience in related field, technical staff details (branch-wise), project completed, major clients list as per the</p>

		<p>format given in Annex-II “Firm’s References”, equipment’s technical details (brochures, data sheets etc.) mentioning compliance and properly highlighting all the compliance specification as requested in Form I “Technical Information Form” using florescent highlighter.</p> <p>VI. Bidders are required to fill and sign the Technical Information Form I as provided in this RFP and must submit it along with Proposal.</p> <p>VII. Bidders are required to fill and sign all pages of the Annex-V “Bill of Cost” while following the format given and submit it as Financial Proposal. Financial Proposals not following the given format may lead to the rejection of bid.</p> <p>VIII. The bid shall not be considered without earnest money.</p> <p>IX. If a bidder has quoted multiple options, in this case bidder should submit the earnest money equal to 2% of highest quoted option.</p> <p>X. Bidders are required to quote the unit price of each item inclusive of all the taxes applicable by the Federal / Provincial Government with breakup.</p> <p>XI. In case of sudden leave on the bid opening date tender will be opened on the next working day.</p> <p>XII. Copy of Authorization Certificate: Bidder must be an authorized partner of the principal(s)</p> <p>XIII. Copy of NTN & GST Certificates: Bidder must be a registered entity in Pakistan holding Sales Tax and NTN certificates.</p> <p>XIV. NTN Registration Certificate & SECP Registration: Bidder must be operating for 5 years having experience in IT security business.</p> <p>XV. Bidders must furnish confirmation in form of letter from the principal ensuring availability of their resources and experience for successful implementation, smooth post-sales support and fulfilment of the technical requirements mentioned in Section V.</p> <p>XVI. The bidder must have annual turnover of 25 million PKR during last two financial years.</p> <p>XVII. Documentary evidence must be provided with the bid.</p> <p>XVIII. All mandatory and technical requirements as per Section V-schedule of requirements, must be complying and fulfilled in bid submission documents as well.</p> <p>XIX. Copy of technical compliance forms: The proposed Solution</p>
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		<p>at “Section V, Schedule of Requirements, Technical Specification & Requirement, Technical Requirement, Business Functions and Performance Requirements” must be 100% technical compliance.</p> <p>XX.An affidavit to the effect that the firm has not been blacklisted/ debarred/ in litigation with/ by any Government/ Semi Government organization – Bidder shall not be eligible to participate in this project, if the firm has been blacklisted/ debarred by any Government/ Semi Government organization in Pakistan in participating in any procurement activities for fraudulent or corrupt practices, or in litigation.</p>
9.	9.1	Other procurement specific documentation requirements are as per Section II – ITB: I. Evaluation and Qualification Criteria.
10.	10.1	Spare parts required for <i>[minimum 5 years if any required]</i> of years of operation.
11.	11.1	For goods making information Systems manufactured from within Pakistan the price quoted shall be PKR.
12.	12.1	For goods offered from abroad the price quoted shall be PKR along with USD conversion rate.
13.	13.1	The price(s) shall be fixed. And optional items price may also be fixed along with the quoted price for this BOQ/BOC. However, optional parts may be purchased only if HEC sees their requirement and after necessary approvals from the authority.
14.	14.1	For the purposes of comparison of bids, the items quoted in USD, the price shall be converted into a single currency (PKR) as 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.
15.	15.1	The Bid Validity period shall be 120 days.
16.	16.1	The amount of earnest money shall be PKR 60,00,000/- The currency of the EM shall be: Pak Rupees.
17.	17.1	The Bid Security/Earnest Money shall be in the form of bank draft/Pay Order drawn in favor of D.G. (Finance), Higher Education Commission, Islamabad.
18.	18.1	Other forms of security are N/A
19.	19.1	Alternative Bids to the requirements of the Bidding Documents will not be permitted.
20.	20.1	The number of copies of the Bid to be completed and returned shall be 1.
21.	21.1	Written confirmation of authorization are: ‘Authorization letter from the principal’.

D. Submission of Bids

22.	22.1	Bid shall be submitted at: Street address: Higher Education Commission, Sector H-9 Building/Plot No. IT Department. City/Town: Islamabad
23.	23.1	Title of the subject Procurement or Project name: Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services”
24.	24.1	ITB title and No: Bid No. HEC/IT/FY24-25/BR24
25.	25.1	Time and date for submission: <i>[1:30PM, April 22, 2025]</i>
26.	26.1	The deadline for Bid submission is. a) Day: Tuesday b) Date: <i>April 22, 2025</i> c) Time: <i>1:30PM</i>
	26.2	Sealing and Marking of Bids: 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-36 (a) of PPR-2004
	26.3	The inner and outer envelopes shall: be addressed to the Procuring Agency at the address given in the BDS; and 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 23.1. If all envelopes are not sealed and marked as required by ITB 22.2, ITB 22.3 and ITB 22.4 or incorrectly marked, the Procuring Agency will assume no responsibility for the misplacement or premature opening of Bid.
	26.4	Deadline for Submission of Bids: Bids shall be received by the Procuring Agency no later than the date and time specified in the BDS .
	26.5	The Procuring Agency may, in exceptional circumstances and at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with ITB 9 , in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline will thereafter be subject to the new deadline.
	26.6	Late Bids: The Procuring Agency shall not consider for evaluation any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 23 . 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.
	26.7	<p>Withdrawal of Bids:</p> <p>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.</p> <p>Revised bid may be submitted after the withdrawal of the original bid in accordance with the provisions referred in ITB 22.</p>

E. Opening and Evaluation of Bids

27.	27.1	<p>The Bid opening shall take place at:</p> <p>Street address: Higher Education Commission, Sector H-9</p> <p>City/Town: <i>Islamabad</i></p> <p>Country: <i>Pakistan</i></p> <p>Day: <i>Tuesday</i></p> <p>Date: <i>April 22, 2025</i></p> <p>Time: <i>2:00PM</i></p>
28.	28.1	<p>The currency that shall be used for Bid evaluation and comparison purposes to convert all Bid prices expressed in various currencies is Pak Rupees</p> <p>The source of exchange rate shall be State Bank of Pakistan/ National Bank of Pakistan.</p> <p>The date of exchange rate shall be: Bid Opening Date</p>
29.	29.1	Other specific criteria are as per Section II: ITB – I. Evaluation and Qualification Criteria.
30.	30.1	<p>Inland transportation from EXW/port of entry/border point to <i>[name of Project site(s)]</i>, and insurance and incidentals.</p> <p>Bidder shall furnish:</p> <ul style="list-style-type: none"> • estimated dimensions and shipping weight of each package. • approximate EXW/ Applicable INCOTERM value of each package.
31.	31.1	Mention the Delivery schedule
32.	32.1	Deviation in payment schedule <i>“is not” applicable</i> .
33.	33.1	Cost of spare parts (as mentioned in relevant sections).
34.	34.1	Spare parts and after sales service facilities in Pakistan.
35.	35.1	Operating and maintenance costs (as per BoQ).

36.	36.1	Performance and productivity of Information System.
37.	37.1	In case of award to a single Bidder of multiple lots; the methodology of evaluation to determine the lowest evaluated Lot combinations, including any discounts offered in the Form of Bid is (N/A)
38.	38.1	a) Domestic preference to apply.
39.	39.1	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>

		<p>claim or failure to read out the correct information contained in the Bidder's Bid.</p> <p>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, including any discounts and alternative offers and the presence or absence of a Bid Security or Bid Securing Declaration.</p> <p>Evaluation Technique: Least Cost Based Selection (LCBS)</p> <p>After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical specifications/requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered highest ranked bid.</p>
F. Award of Contract		
40.	40.1	<p>Subject to ITB 30 and 39, the Procuring Agency will award the Contract to the Bidder whose Bid has been determined to be substantially responsive to the Bidding Documents and who has been declared as Most Advantageous Bidder, provided that such Bidder has been determined to be:</p> <p>eligible in accordance with the provisions of ITB 3; is determined to be qualified to perform the Contract satisfactorily; and Successful negotiations have been concluded, if any.</p>
41.	41.1	<p>Negotiations may be undertaken with the Most Advantageous Bid relating to the following areas:</p> <p>a minor alteration to the technical details of the statement of requirements; reduction of quantities for budgetary reasons, where the reduction is in excess of any provided for in the Bidding documents; a minor amendment to the special conditions of Contract; finalizing payment arrangements; delivery arrangements; the methodology for provision of related services; or clarifying details that were not apparent or could not be finalized at the time of Bidding;</p>
	41.2	<p>Where negotiation fails to result into an agreement, the Procuring Agency may invite the next ranked Bidder for negotiations. Where negotiations are commenced with the next ranked Bidder, the Procuring Agency shall not reopen earlier negotiations.</p>
42.	42.1	<p>Notwithstanding ITB 37, the Procuring Agency reserves the right to reject all the bids, and to annul the Bidding process at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders. However, the Authority (i.e. PPRA) may call from the Procuring Agency the justification of those grounds.</p>
43.	43.1	<p>The Procuring Agency shall upon request communicate to any Bidder the grounds for its rejection of its Bids, but is not required to justify those grounds.</p> <p>Notice of the rejection of all Bids shall be given promptly to all Bidders that have submitted Bids.</p> <p>The Procuring Agency reserves the right at the time of contract award to increase or decrease the quantity of goods or related services originally specified in these Bidding Documents (schedule</p>

		of requirements) provided this does not exceed by the percentage indicated in the BDS, without any change in unit price or other terms and conditions of the Bid and Bidding Documents. Advance Payment will not be made.
44.	44.1	Maximum amount of Advance payment shall be [No]
45.	45.1	In case of any dispute between the two parties of any matter arising out of after signing the contract agreement, the case shall be referred to Executive Director, HEC whose decision shall be final and binding on both parties.
	45.2	<p>Notification of Award:</p> <p>Prior to the award of contract, the Procuring Agency shall issue a Final Evaluation Report giving justification for acceptance or rejection of the bids.</p> <p>Where no complaints have been lodged, the Bidder whose Bid has been accepted will be notified of the award by the Procuring Agency prior to expiration of the Bid Validity period in writing or electronic forms that provide record of the content of communication. The Letter of Acceptance will state the sum that the Procuring Agency will pay the successful Bidder in consideration for the execution of the scope of works as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).</p> <p>The notification of award will constitute the formation of the Contract, subject to the Bidder furnishing the Performance Security (or guarantee) in accordance with ITB 43 and signing of the contract in accordance with ITB 42.2.</p> <p>Upon the successful Bidder's furnishing of the performance security (or guarantee) pursuant to ITB 43, the Procuring Agency will promptly notify each unsuccessful Bidder, the name of the successful Bidder and the Contract amount and will discharge the Bid Security or Bid Securing Declaration of the Bidders pursuant to ITB 18.7.</p>
		<p>Signing of Contract:</p> <p>Promptly after notification of award, Procuring Agency shall send the successful Bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.</p> <p>Immediately after the Redressal of grievance by the GRC, and after fulfillment of all condition's precedent of the Contract Form, the successful Bidder and the Procuring Agency shall sign the contract.</p> <p>Where no formal signing of a contract is required, purchase order issued to the bidder shall be construed to be the contract.</p>

		<p>Performance Security (or Guarantee):</p> <p>After the receipt of the Letter of Acceptance, the successful Bidder, within the specified time, shall deliver to the Procuring Agency a Performance Security (or Guarantee) in the amount and in the form stipulated in the BDS and SCC, denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.</p> <p>If the Performance Security (or Guarantee) is provided by the successful Bidder and it shall be in the form specified in the BDS which shall be in any of the following:</p> <ol style="list-style-type: none"> a. certified cheque, cashier's or manager's cheque, or bank draft; b. irrevocable letter of credit issued by a Scheduled bank or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a Scheduled bank; c. bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign Bidder, bonded by a foreign bank; or d. surety bond callable upon demand issued by any reputable surety or insurance company. <p>Any Performance Security (or guarantee) submitted shall be enforceable in Pakistan.</p> <p>Failure of the successful Bidder to comply with the requirement of ITB 43.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security, in which event the Procuring Agency may make the award to the next ranked Bidder or call for new Bids.</p>
		<p>Advance Payment:</p> <p>The advance payment will not be provided in normal circumstances. However, in case where international incoterms are involved, the same will be dealt with standard international practices and in the manner as prescribed in ITB 44.2.</p>

G. Review of Procurement Decisions

46.	46.1	The address of the HEC is Higher Education Commission, Sector H9, Islamabad.
	46.2	The Address of PPRA to submit a copy of grievance: Grievance Redressal Appellate Committee, Public Procurement Regulatory Authority 1 st Floor, G-5/2, Islamabad, Pakistan Tel: +92-51-9202254

4. Section IV. Eligible Countries

All the bidders are allowed to participate in the subject procurement without regard to nationality, except bidders of some nationality, prohibited in accordance with policy of the Federal Government.

Following countries are ineligible to participate in the procurement process:

1. India
2. Israel

Ministry of Interior, Government of Pakistan has notified List of Business-Friendly Countries (BVL). information can be accessed through following link:

<http://www.dgip.gov.pk/Files/Visa%20Categories.aspx#L>

**5. SECTION V: SCHEDULE OF REQUIREMENTS,
TECHNICAL SPECIFICATION & REQUIREMENT**

Schedule of Requirements

Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services”

Technical Specifications and Requirements

A. Background	
01.	<p>The HEC.</p> <ul style="list-style-type: none">i. The Higher Education Commission a Federal Autonomous Body headquartered at H – 9, Islamabad.ii. The IT Division of the Higher Education Commission who is issuing this Tender Notice is headed by Director (PERN) /In charge (IT) reporting to Executive Director (HEC).
02.	<p>Business Objectives of the HEC</p> <p>III. Higher Education Commission (HEC) is established with the aim of facilitating the higher education sector to serve as Socio-Economic Engine for the development of Pakistan. To augment its vision, HEC has always believed and encouraged use of technology as a tool for the higher education sector to leap and catch up with the pace of socio-economic development of the developed world. HEC has always given special focus to Information Technology for the enablement and empowerment of the higher education sector.</p> <p>IV. Higher Education Commission (HEC), has IT Infrastructure which provides IT facilities to the employees of HEC and to the users of universities/institutes like IBM BPM/DB2 services, BPAS Services, SAP and SAP HANA, Scholarship Portals, ETC services, Video Conferencing, Interactive Lecturing and LMS, Internet Services, Email, and Websites/Internal & External Portals, etc. Over the past few years, advanced technology and enhanced versions of software and new services have emerged and their requirement is penetrating in HEC routine business. Further the number of employees has also increased at HEC. Therefore, the requirement of Business Continuity at its datacenters and its O&M has certainly increased many folds as it was before.</p> <p>V. In this regard, HEC intends to procure and implement a comprehensive Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services” for HEC ICT Infrastructure.</p> <p>VI. Project: Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services” (including Server/storages and software Licenses/Services & Support) as per details mentioned in this section BOQ part.</p>

03.	<p>Acronyms Used in These Technical Requirements</p> <ol style="list-style-type: none"> 1.1. HEC: Higher Education Commission. 1.2. PERN: Pakistan Education & Research Network. 1.3. SLA: Service Level Agreement. 1.4. RFP: Request for Proposals. 1.5. BPAS: Business Process Automation System (IBM BPM) 1.6. MOSS: Microsoft Office SharePoint Server 1.7. BOQ: Bill of Quantities. 1.8. BOC: Bill of Cost 1.9. Total Bid Value: Cost of 3-year services as per BOC. 1.10. Total Contract Value: Cost of 3-year services as per BOC, licenses, services, etc. 1.11. Bidder: Bidder who has submitted the proposals. 1.12. Selected Bidder: Bidder selected for the award of tender. 1.13. first Party: Higher Education Commission 1.14. Second Party: Selected Bidder. 1.15. Service Level Agreement: The level of service which HEC purchases from vendor in respect of the service. 1.16. Trouble Ticket: A File that identify the fault, the technical detail. 1.17. Call-out Interval: The time between Network Operation Centre issuing a trouble ticket to the concerned vendor/engineer and confirming that the trouble ticket is received and accepted by the vendor. 1.18. Restoration Time: time measured between a trouble ticket being received and accepted by the vendor and restoration of the system(s)/service(s)/functionality (ies) in subject to operation condition. 1.19. Resolve: To restore the system(s)/services(s)/functionality (ies) on which a trouble ticket is issued and complete all further activities necessary to close the trouble ticket. 1.20. Resolution Time: The time measured between a Trouble ticket being received and accepted by the vendor and the answer to / completion of the trouble ticket.
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B. Business Functions and Performance Requirement

- 01.
- I. HEC Datacenters hosts all the ICT services for its departments and Universities. HEC Datacenters having multiple brands of servers/storages/applications, intend to obtain the Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services”, solution including Data center and IT Hardware product/licenses, support, and services for its all systems running in these Datacenters for next three years.
 - II. However, it is clear that for Islamabad Datacenter infrastructure as a whole and for all the compute/storage/network etc. equipment mentioned in this BOQ, the warranty and support SLA shall be for minimum three years which is likely to be extendable to further years as well as per requirements of HEC, while for Lahore and Karachi sites Datacenters infrastructure /power equipment related items warranty and services/SLA support may likely be for one year initially, or it may likely be extendable to further duration as per yearly SLA/Support services and their respective costing, depending upon the requirement of HEC. Prices shall be locked as per quoted in this BOC for further extension years of services for these sites. Thus if HEC does not deemed to require the services for Lahore and Karachi sites infrastructure/power equipment after one year or so, the subsequent services/SLA cost must be deducted as per actual services requirement for these sites. Therefore, bidders must quote the pricing for these sites’ infrastructure for yearly basis calculations.
 - III. HEC shall notify the awarded firm/vendor in contract, for the required services in writing post yearly basis and invoices may be adjusted accordingly for these sites.
 - IV. Following are the few key requirements (but not limited to only these items, the actual scope may be as per infrastructure O&M requirements as per on ground datacenter infrastructure and its requirements for the smooth functioning of infra and services hosted on them, which includes both the hardware and the software/licensing etc services), from the intended bidders to perform under the scope of this project: -
 - (a) The successful bidder will provide support services through dedicated resource(s) as well as principal premium support for min. 3 years from the date of service delivery.
 - (b) The selected bidder will be responsible for responding to emergency events on an urgent basis as per SLA mention in this RFP and subsequently in the contract agreement accordingly.
 - (c) The Selected bidder will be responsible to provide a comprehensive report of the infrastructure, and maintenance jobs being performed and of support services being provided to HEC, on Quarterly basis.
 - (d) The selected bidder shall be responsible for at-least 3 years of Services and Support, in addition to the hardware/software solution components warranty and licensing services, which is likely to be extendable to further 2 years or more, only and only as per HEC requirements.
 - (e) Services delivery: The services will be provided at HEC Head Office Islamabad.
 - (f) Period for delivery: The services under this Project/ Contract are intended for three years from the date of signing of the Contract Agreement with the successful bidder. The contract may be extended as per the provision in PPRA rules with mutual consent.
 - (g) Commencement date for delivery: Commencement date for delivery will be immediately after signing of the contract agreement with the successful bidder.
 - III. The selected bidder shall be responsible for Smooth operation of Data Centers Islamabad Operations 24/7/365 within warranty services period by deputing necessary workforce / resident engineers (06) in Islamabad, and also will place two (2) resident engineers in Lahore and Karachi Data Centers (one in each site).

	<p>IV. The selected bidder shall be responsible for installation and O&M of the servers, storages and network equipment cater under warrantee services as per HEC requirement and also will be responsible for configuration of the operating system, clustering service and high availability failover services.</p> <p>V. The selected bidder shall be responsible for the supply, installation, configuration, integration, testing and commissioning of replaced / new equipment under the contract, replacement of faulty equipment in HEC Islamabad Data Centers as per requirements of HEC</p> <p>VI. The selected bidder shall be responsible for it end to end security configurations server, storages and network equipment</p> <p>VII. The selected bidder shall be responsible for configuration of failover cluster / high availability services and its configuration related to virtual machine services.</p> <p>VIII. The selected bidder shall be responsible for the provisioning of extended warranties, services and support, including Tech Refresh as per the contract.</p> <p>IX. The selected bidder shall be responsible for provisioning of comprehensive parts warranty of the equipment and shall have a 24/7 call out facility</p> <p>X. The selected bidder will provide a comprehensive training to the HEC nominated resources, system admins/engineers for enablement, training, and tackling running issues for effective utilization of the deployed Infrastructure and to manage the hardware/software components of the quoted solution.</p> <p>XI. The selected Bidder shall be responsible for provisioning of comprehensive parts warranty of UPS along with batteries replacement, UPS input output power DBs and cables.</p> <p>XII. Preventive and corrective maintenance must be carried out on a monthly basis throughout the SLA period for power equipment and Monthly PM and CM reports shall be submitted to HEC in hard/email/fax.</p> <p>XIII. The selected bidder must ensure the comprehensive parts warranty and maintenance services of parts replacement as deem necessary i.e. electrical and mechanical soundness of UPS, preventive maintenance, corrective maintenance, predictive maintenance, technical assistance and any other UPS fault rectification relating to the smooth operations and safety of the UPS's throughout the SLA period.</p> <p>XIV. In-Case of UPS, The Selected Bidder shall be responsible for preventive and corrective maintenance as per details finalized by HEC nominated officer. The selected bidder shall clean the battery cables and terminals; tighten and apply corrosion protection as per details finalized by HEC nominated officer.</p> <p>XV. In-case of Precision Cooling System, The Selected Bidder Shall be responsible for preventive maintenance which will include gas filling, compressor health check, condenser health check, indoor outdoor service, filter changing/cleaning etc and as per details finalized by HEC nominated officer at the time finalization of agreement.</p> <p>XVI. Response time of the successful bidder in the context of warranted services at all days, 24 X 7x365, shall be 1 hour from the reporting of the fault.</p> <p>XVII. The Bidders must ensure the escalation response time through their engineers in business hours, the escalation time shall be 30 minutes in working hours and 1.5 hours in non-working hours. The maximum restoration time allowed shall be four (4) hours.</p> <p>XVIII. The bidder shall ensure that all hardware/software components covered under the renewal /extended warranty and support services, receive comprehensive support for the entire warranty period as required by HEC. In the case of End-of-Life (EOL) or End-of-Support (EOS) status, the bidder must provide a replacement with equivalent or higher specifications, ensuring seamless functionality and compatibility with HEC's existing infrastructure along with all necessary software/licensing components to enable the ready to use virtualized hosting platform for the HEC ICT services via prescribed Datacenter(s).</p> <p>XIX. The bidder shall ensure that all software licenses are covered for this hardware support</p>
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	under the contract ensuring seamless compatibility with HEC infrastructure (existing and cloud).					
Technical specifications						
02.	Datacenter infrastructure and Hardware/Software Specifications (Warranty and support services required for min. next 3 years)					
Note: Services requirement is meant for all hardware and software/licensing as per all the deployed infrastructure in HEC datacenters.						
1	E9000 V5 Chassis			2	Compliance Y/N	Comments
Chassis Basic Configuration						
2301028	IT1K20E9000	12U high-powered integrative module with Delivery Accessory		2		
3054675	IT1DSMMA0000	MM910, Shelf Management Module A		4		
03030QEJ	IT0E01FAN000	OSCA Fan Box		28		
02311PBU	IT1M01FECM	3000W Platinum HVDC Power Module (with power cable)		12		
Switch Module (2X/3X)						
3057082	IT11XCUK01	CX320,8 External 10G Optical Port,2 External 40G Optical,Converged Switch Module		4		
Switch Module (1E/4E)						
3056345	IT11XCUH07	CX220,8*16G FC Port (4-Uplink Port Activate,Brocade),Switch Module		4		
5331472	BCOLICENSE03	16G FC Switch, Brocade, License,4-Port POD		4		
5330492	BCOLICENSE02	FCSwitch-Brocade-ISL Trunking License License		2		
5330493	BCOLICENSE01	FCSwitch-Brocade-Full Fabric License		2		
5332654	FCSWITCHL01	Enterprise Bundle -TRK, FV, EF, FF License,for CX220		2		
Optical Transceiver and Cable						
2314171	SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)		4		
6230622	BSFP-SW-16G-1P	Fiber Switch,FC Multimode SFP,16Gbps,for SNS2224/SNS2248/SNS3096/SNS5192/SNS5384/SNS2624/SNS3664/SNS3696E/SNS5604/SNS5608		8		
02310WRD	OMXD10N02	Optical Transceiver, SFP+,850nm,9.8G, -5dBm, -1dBm,-11.1dBm,LC,MMF,0.1km		8		
4050185	COCC2P000	High Speed Cable,Passive SFP+ Cable,3.0m		8		

	02310MUH	QSFP-40G-CU3M	QSFP+,40G, High Speed Direct-attach Cables,3m, QSFP+38M, CC8P0.32B(S), QSFP+38M, Used indoor	4		
2	E9000 v5 Blade Servers (CH242 V5) compute			8		
	3057742	IT11SPCB03	Purley 4P Compute Node, CH242 V5	4		
	Skylake CPU					
	02311XSC	IT1M27CPU	Intel Xeon Gold 5118(2.3GHz/12-core/16.5MB/105W) Processor	16		
	Memory					
	6200241	N26DDR402	DDR4 RDIMM Memory,32GB,2666MT/s,2Rank(2G*4bit),1.2V, ECC	64		
	SAS HDD (2.5inch Drive Bay)					
	02311HAN	N1200S1210 W2	HDD,1200GB, SAS 12Gb/s,10K rpm,128MB or above,2.5inch (2.5inch Drive Bay)	8		
	RAID Card					
	03024MCH	BC11RLNAA	RU150-M(Avago3408) SAS/SATA RAID Card-RAID0,1,10-12Gb/s-no Cache	4		
	NetWork Mezz Card 1					
	03024BCJ	IT11MXEN	MZ520-2*10GE CNA Mezzanine Card,PCIE 2.0 X8	4		
	NetWork Mezz Card 2					
	03022UMP	IT11MHFA	MZ220-2*16G/8G FC HBA Mezzanine Card	4		
3	E9000 v5 Blade Servers (CH242 V5) compute			8		
	3057742	IT11SPCB03	Purley 4P Compute Node, CH242 V5	4		
	Skylake CPU					
	02311XET	IT1M16CPU	Intel Xeon Gold 6138(2.0GHz/20-core/27.5MB/125W) Processor	16		
	Memory					
	6200241	N26DDR402	DDR4 RDIMM Memory,32GB,2666MT/s,2Rank(2G*4bit),1.2V, ECC	128		
	SAS HDD (2.5inch Drive Bay)					

	02311HAP	N600S1210W 2	HDD,600GB, SAS 12Gb/s,10K rpm,128MB or above,2.5inch (2.5inch Drive Bay)	8		
	RAID Card					
	03024MCK	BC11RLCBC	RU450C-M 2G(Avago3508) SAS/SATA RAID Card, RAID0,1,5,6,10,50,60,12Gb/s,2GB Cache	4		
	02311YYL	BC1M03SCAP	3508 RAID Card SuperCap	4		
	Network Mezz Card 1					
	03024BCG	IT11MXEP	MZ522-4*10GE CNA Mezzanine Card,PCIE 2.0 X8	4		
4	E9000 Blade Servers (CH121 V5)			8		
	3057699	IT11SPCA03	Purley 2P Compute Node, CH121 V5 (supports only CPUs with power consumption of less than 165W)	2		
	Skylake CPU					
	02311XSC	IT1M27CPU	Intel Xeon Gold 5118(2.3GHz/12- core/16.5MB/105W) Processor	4		
	Memory					
	6200241	N26DDR402	DDR4 RDIMM Memory,32GB,2666MT/s,2Rank(2G*4bit),1 .2V, ECC	24		
	SAS HDD (2.5inch Drive Bay)					
	02311FMR	N1800S10W2	HDD,1800GB, SAS 12Gb/s,10K rpm,128MB,2.5inch (2.5inch Drive Bay)	4		
	RAID Card					
	03024MCK	BC11RLCBC	RU450C-M 2G(Avago3508) SAS/SATA RAID Card, RAID0,1,5,6,10,50,60,12Gb/s,2GB Cache	2		
	02311YYL	BC1M03SCAP	3508 RAID Card SuperCap	2		
	Network Mezz Card 1					
	03022PYE	IT11MXEK	MZ312-4*10GE Mezzanine Card,PCIE 2.0 X8	2		
	Network Mezz Card 2					
	03022PYE	IT11MXEK	MZ312-4*10GE Mezzanine Card,PCIE 2.0 X8	2		
	3057699	IT11SPCA03	Purley 2P Compute Node, CH121 V5 (supports only CPUs with power consumption of less than 165W)	2		

Skylake CPU					
02311XSF	IT1M30CPU	Intel Xeon Silver 4114(2.2GHz/10-core/13.75MB/85W) Processor	4		
Memory					
6200241	N26DDR402	DDR4 RDIMM Memory,32GB,2666MT/s,2Rank(2G*4bit),1.2V, ECC	16		
SAS HDD (2.5inch Drive Bay)					
02311HAN	N1200S1210 W2	HDD,1200GB, SAS 12Gb/s,10K rpm,128MB or above,2.5inch (2.5inch Drive Bay)	4		
RAID Card					
03024MCH	BC11RLNAA	RU150-M(Avago3408) SAS/SATA RAID Card-RAID0,1,10-12Gb/s-no Cache	2		
NetWork Mezz Card 1					
03024BCG	IT11MXEP	MZ522-4*10GE CNA Mezzanine Card,PCIE 2.0 X8	2		
NetWork Mezz Card 2					
03022UMP	IT11MHFA	MZ220-2*16G/8G FC HBA Mezzanine Card	2		
3057699	IT11SPCA03	Purley 2P Compute Node, CH121 V5 (supports only CPUs with power consumption of less than 165W)	8		
Skylake CPU					
02311XEX	IT1M20CPU	Intel Xeon Gold 6130(2.1GHz/16-core/22MB/125W) Processor	8		
Memory					
6200240	N26DDR401	DDR4 RDIMM Memory,16GB,2666MT/s,2Rank(1G*8bit),1.2V,ECC	8		
SAS HDD (2.5inch Drive Bay)					
02311HAP	N600S1210W 2	HDD,600GB, SAS 12Gb/s,10K rpm,128MB or above,2.5inch(2.5inch Drive Bay)	8		
RAID Card					
03024MCH	BC11RLNAA	RU150-M(Avago3408) SAS/SATA RAID Card-RAID0,1,10-12Gb/s-no Cache	8		
NetWork Mezz Card 1					
03022YMY	IT11MXEM	MZ310,2*10G Mezzanine Card	8		
5	E9000 Chassis		3		
	Chassis Basic Configuration				
	IT1K01E9000H	OSCA-H 12U high-powered integrative module	3		
	IT1DSMMA0000	MM910, Shelf Management Module A	6		

	IT0E01FAN000	OSCA Fan Box	42		
	IT1MPOWERM00	3000W platinum AC power supply unit	18		
	Switch Module				
	IT1DXCUB01	CX311,16*10GE+8*8G FC Converged Switch Module	6		
	Optical Transceiver & SFP+ Cable				
	Electrical interface Optical Transceiver				
	SFP-RJ45	Optical functional module,1000BASE-T -SFP RJ45Electrical Module,Auto Negotiate,100m ,-40~85degC	12		
	Multi-Mode Optical Transceiver				
	SFP-8.5G-LCMM	Optical Transceiver,SFP+, 850nm, 8.5G, -8.2dBm~-1.3dBm,-11.2dBm,LC,MMF,0.15km	12		
	SFP-10G-LCMM	Optical transceiver, SFP+,850nm,10Gb/s,-7.3~-1dBm,-9.9dBm,LC, MM,0.3km	12		
	Cables and Optional Equipment				
	EGUIDER05	4U Static Rail Kit	3		
	IT1K20E9000	12U high-powered integrative module with Delivery Accessory	3		
	IT1DSMMA0000	MM910, Shelf Management Module A	6		
	IT0E01FAN000	OSCA Fan Box	42		
	IT1MPOWERM00	3000W platinum AC power supply unit	27		
	SFP-RJ45	Optical functional module,1000BASE-T -SFP RJ45Electrical Module,Auto Negotiate,100m ,-40~85degC	18		
	SFP-8.5G-LCMM	Optical Transceiver,SFP+, 850nm, 8.5G, -8.2dBm~-1.3dBm,-11.2dBm,LC,MMF,0.15km	18		
	OMXD30000	Optical Transceiver, SFP+,10G, Multi-mode Module(850nm,0.3km,LC)	18		
	C1M254BK00	High Speed Cable,Passive SFP+ Cable,1.0m,SFP+20M,CC2P0.254B,SFP+20M,LSFRZH For Indoor	30		
	EGUIDER05	4U Static Rail Kit	3		
6	CH242 V3 DDR4 (Full Width Blade Servers)		16		
	Blade Basic Configuration				
	Blade Motherboard				
	IT11SBCC05	Brickland EX Compute Node, CH242 V3 DDR4	16		
	Haswell EX CPU				
	EHSE74830	X86 series, FCLGA2011,2100MHz,1.8V,64bit,115000mW, Haswell EX Xeon E7-4830 v3,12Core, IT Product Dedicated	64		
	DDR4 Memory				
	N00DDR401	Memory Module, DDR4 RDIMM,16GB,288pin,0.9ns,2133000KHz,1.2V, ECC,2Rank(1G*4bit)	512		

Hard Disk (include Front Panel)				
N1200S10W2	Hard Disk,1200GB, SAS 6Gb/s,10000rpm,2.5inch,64MB, Hot-swap,Built-in,Front Panel		64	
RAID Card and Other Accessories				
BCOM03ESMD	RU320BC SAS/SATA RAID Card, RAID0,1,10,5,50,6,60,512MB Cache (LSI2208), Support Battery and SuperCap		16	
Network Mezz Card				
IT1DMXEC0100	MZ510,2*10G Port CNA Mezzanine Card,PCIE 2.0 X8		16	
N00DDR315	Memory Module, DDR3 RDIMM,8GB,240PIN,1.25ns,1600000KHz,1.35V, ECC,2 Rank(512M*8bit), Height 30mm		16	
N00DDR317	Memory Module, DDR3 RDIMM,16GB,240 PIN,1.5ns,1333000KHz,1.35V, ECC,all product,2 Rank(1Gx4bit),Height 30mm		64	
7	CH242 V3 (Full Width Blade Servers)		4	
Blade Mother Board IT11SBCC05	Brickland EX Compute Node, CH242 V3 DDR4		4	
Broadwell EX CPU EBDE74830	Intel Xeon E7-4830 v4 (2.0GHz/14-core/ 35MB/ 115W) Processor		16	
DDR4 Memory BC61M32G	DDR4 RDIMM Memory, 32GB, 2400MT/s, 2Rank (2G*4bit), 1.2V, ECC, Reinforced memory		64	
Hard Disk (include Front Panel) N1200S1210W2	HDD,1200GB, SAS 12Gb/s,10K rpm,128MB or above, 2.5 inch (2.5inch Drive Bay		20	
RAID Card and Other Accessories IT1M01ESMQ	RU430C(LSI3108) SAS/SATA RAID Card, RAID0,1,5,6,10, 50,60,12Gb/s,1GB Cache, used for RH8100 V3/V3 blade servers		4	
RAID Card and Other Accessories IT1M02ESMQ	LSI3108 1GB RAID Card SuperCap(4GB,include cable, bracket),used for V3 blade servers		4	
Network Mezz Card 1 IT1DMXEC0100	MZ510,2*10G Port CNA Mezzanine Card,PCIE 2.0 X8		4	
8	2488H V5 Servers		24	
2488H V5				
Base Configuration				
02311YGS	H24H-05-S8AFM	2488H V5 (8*2.5 inch HDD Chassis,With 2*GE and 2*10GE SFP+(Without Optical Transceiver))H24H-05	24	
0S2312DAE	PAC1500S12-BE	1500W AC Power Module Spare Part	48	
Cascade Lake CPU				
02312MRH	BC6M81CPU1	Intel Xeon Gold 6230(2.1GHz/20-Core/27.5MB/125W) Processor (with heatsink)	96	
Memory				
6200329	M429R64FS	DDR4 RDIMM Memory,64GB,2933MT/s,2Rank(4G*4bit)	288	

Hard Disk (with 2.5" Front Panel)-SAS					
02311AYF	N600S15W2	HDD,600GB, SAS 12Gb/s,15K rpm,128MB,2.5inch(2.5inch Drive Bay)	48		
PCIe Card-Raid Card					
02311YHV	BC6M11RAID	SP450C-M 2G(AVAGO3508) SAS/SATA RAID card,RAID0,1,5,6,10,50,60,12Gb/s,2GB Cache,used for 8HDD	24		
02311WDP	BC1M01SCAP	3508/3516 RAID Card SuperCap	24		
PCIe Card-NIC					
02311PXA	CN2M01ITGE	Ethernet Adapter,10Gb Electrical Interface (Intel X550),2-Port, RJ45, PCIe 2.0 x8	24		
PCIe Card-FC					
02312JTP	BC5M04FCAA	FC HBA Adapter,16G(Hi1822), Dual Port,SFP+(With Single Optical Module),Half-height Half-length,Half Handle bars,PCIe 3.0 x8	24		
Cable and Optical Module					
2318169	OMXD30000	Optical Transceiver, SFP+,10G, Multi-mode Module(850nm,0.3km,LC)	48		
Guide Rail, Slide Rail and auxiliary materials					
21240434	EGUIDER01	2U Static Rail Kit (Direct delivery materials)	24		
Note: For 25G bandwidth communication on all servers, 25GE *2 ports Interface cards along with 2*25GE MM SFPs and SAN connectivity on min. 16G FC card in all servers must be ensured.					
9. Storages (SAN)					
i. OceanStor 5600 V5 Kungpeng			1		
Controller Unit 1					
Controller Enclosure					
02353AVH	5600KUN-S-768-AC	5600 V5(2U, Dual Ctrl,SAS,AC\240V HVDC,768GB Cache,4*(4*12Gb) SAS,25*2.5",SPE52C0225)	1		
Expansion Interface Module					
3058979	SMART16GbFE	4 ports SmartIO I/O module(SFP+,16Gb FC)	2		
3058981	SMART10GbFE	4 ports SmartIO I/O module (SFP+,10Gb ETH)	2		
Disk Components					
02352SHG	L4-S-SAS600	600GB 10K RPM SAS Disk Unit(2.5")	14		
02352UNT	L4-S-SAS1200	1.2TB 10K RPM SAS Disk Unit(2.5")	65		
Disk Enclosure (AC)					
02352TKE	DAE62525U2	SAS Disk Enclosure(2U,AC\240V HVDC,2.5",Expansion Module,25 Disk Slots,Without Disk Units,DAE62525U2-10)	3		
Storage Accessories Package					

Optical Fiber					
14130858	SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multimode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	16		
PANGEA V6 SAS Cable					
4052252	HS-SAS-3-02	High Speed Cable,48G Mini SAS HD Cable,3m,SFF 8644 Plug,28AWG*4P*2B(S),SFF 8644 Plug,indoor,SAS 3.0,LSZH	3		
System Software					
88035SHJ	LIC-56X0-BS	Basic Software License (Including DeviceManager, SmartThin, SmartMulti-Tenant, SmartMigration, SmartErase, SmartMotion, SystemReporter, eService, SmartQuota, NFS, CIFS, NDMP)	1		
88035SHL	LIC-56X0-HYPERPAC	Data Protection Software Suite License (Including HyperSnap,HyperCopy,HyperClone,HyperMirror)(for SAN)	1		
88035SHV	LIC-56X0-REP	HyperReplication License (for SAN&NAS)	1		
88035SJA	LIC-56X0-QOS	SmartQoS License (for SAN&NAS)	1		
88035SJB	LIC-56X0-PART	SmartPartition License (for SAN&NAS)	1		
88035SJC	LIC-56X0-VIRTU	SmartVirtualization License	2		
ii. OceanStor 5600 V5 Kungpeng			1		
Controller Unit 1					
Controller Enclosure					
02353A WQ	5600KUN-L-768-AC	5600 V5(2U, Dual Ctrl,SAS,AC\240V HVDC,768GB Cache,4*(4*12Gb) SAS,12*3.5",SPE52C0212,Applicable to 1.2m-Depth Cabinets)	1		
Expansion Interface Module					
3058979	SMART16GbFE	4 ports SmartIO I/O module (SFP+,16Gb FC)	2		
3058981	SMART10GbFE	4 ports SmartIO I/O module (SFP+,10Gb ETH)	2		
Disk Components					
02352U PS	L4-L-NLSAS4T	4TB 7.2K RPM NL-SAS Disk Unit(3.5")	55		
Disk Enclosure (AC)					
02352TK G	DAE62435U4	SAS Disk Enclosure (4U, AC\240V HVDC,3.5",Expansion Module,24 Disk Slots,Without Disk Units,DAE62435U4)	2		
Storage Accessories Package					
Optical Fiber					
14130858	SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	16		
PANGEA V6 SAS Cable					
4052252	HS-SAS-3-02	High Speed Cable,48G Mini SAS HD Cable,3m,SFF 8644 Plug,28AWG*4P*2B(S),SFF 8644 Plug,indoor,SAS 3.0,LSZH	3		

System Software					
88035S HJ	LIC-56X0-BS	Basic Software License (Including DeviceManager, SmartThin, SmartMulti-Tenant, SmartMigration, SmartErase, SmartMotion, SystemReporter, eService, SmartQuota, NFS, CIFS, NDMP)	1		
88035S HL	LIC-56X0-HYPERPAC	Data Protection Software Suite License (Including HyperSnap, HyperCopy, HyperClone, HyperMirror)(for SAN)	1		
88035S HV	LIC-56X0-REP	HyperReplication License (for SAN&NAS)	1		
88035SJ A	LIC-56X0-QOS	SmartQoS License (for SAN&NAS)	1		
88035SJ B	LIC-56X0-PART	SmartPartition License (for SAN&NAS)	1		
88035SJ C	LIC-56X0-VIRTU	SmartVirtualization License	2		
iii. OceanStor 5500 V5			1		
Controller Unit 1					
Controller Enclosure					
023 51L VK	55V5- 128G- 2S-AC2- 10ETH	5500 V5(2U, Dual Ctrl, AC\240HVDC, 128GB, SmartIO, 8*10Gb ETH, 25*2.5", SPE34C0225)	1		
Expansion Interface Module			1		
305 679 5	SMARTI O16FC	4 port SmartIO I/O module (SFP+, 16Gb FC)	2		
Disk Components					
023 52Q DC	HSSD- 7.68T2S- P3	7.68TB SSD SAS Disk Unit(2.5")	8		
Storage Accessories Package					
Optical Fiber					
141 308 58	SN2F01F CPC	Patch Cord, DLC/PC, DLC/PC, Multi-mode, 3m, A1a.2, 2mm, 42mm DLC, OM3 bending insensitive	16		
System Software					
Basic Software License (Including DeviceManagement, SmartThin, SmartMulti-					
880 34JU H	LIC- 55V5-BS	Basic Software License(Including DeviceManager, SmartThin, SmartMulti-tenant, SmartMigration, SmartErase, SmartMotion, SystemReporter, SmartQuota, NFS, CIFS, NDMP, eService)	1		
Smart Tier					
880 34JU W	LIC- 55V5- TIER	SmartTier License (for SAN)	1		
Oceanstor HW Ultra Path Software					
880 34JV D	LIC- 55V5- PATH	OceanStor HW UltraPath Software License	1		

iv. OceanStor 5300 V3 (V300R001)		1		
OceanStor 5300 V3 Main Equipment				
Dual-Controller Unit 1				
Controller Enclosure				
5300V3-32G-AC-3	5300 V3(2U, Dual Ctrl, AC,32GB,8*GE,12*3.5",SPE33C0212)	1		
Expanding Interface Module				
LPU4FC8V3	4 port 8Gb FC I/O module	2		
LPU4S12V3	4 port 4*12Gb SAS I/O module (MiniSAS HD)	2		
Disk Components				
SAS1200-10K-2-1	1200GB 10K RPM 4KN SAS Disk Unit(2.5")	32		
NLSAS4T-7.2K-01	4000GB 7.2K RPM NL SAS Disk Unit(3.5")	40		
EMLC600-3-01	600GB HSSD eMLC SAS Disk Unit(3.5")	14		
Disk Enclosure				
DAE22525U2-1-AC	Disk Enclosure (2U, AC,2.5", Expanding Module,25 Disk Slots,without Disk Unit,DAE22525U2)	2		
DAE22435U4-1-AC	Disk Enclosure (4U, AC,3.5", Expanding Module,24 Disk Slots,without Disk Unit,DAE22435U4)	2		
Installation Material				
SS-OP-D-LC-M-3	Patchcord,DLC/PC,DLC/PC,Multi-mode,3m,A1b,2mm	8		
HS-SAS-5-01	High Speed Cable,Mini SAS HD Cable,5m,(SFF 8644 Plug),(26AWG*4P*2B(S)),(SFF 8644 Plug),Indoor use	1		
System Software				
Basic Software License for Block(Include Device Management,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,Ultrathin,Cloud Service)				
LIC-5300V3-BS	Basic Software License for Block (Include Device Management,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,Ultrathin,Cloud Service)	1		
Data Protection Software suit License (HyperSnap,HyperCopy,HyperClone,HyperMirror)				
LIC-53-HYPERPAK	Data Protection Software suit License (HyperSnap,HyperCopy,HyperClone,HyperMirror)	1		
Storage efficiency Software suit License (SmartTier,SmartCache)				
LIC-53-SMARTPAK	Storage efficiency Software suit License (SmartTier,SmartCache)	1		
SmartQos License				

LIC-5300V3-QOS	SmartQos License	1		
SmartPartition License				
LIC-5300V3-PAR	SmartPartition License	1		
STOSRDFORBCDK	OceanStor ReplicationDirector Software Base Edition	1		
v. OceanStor 5500 V3(V300R001)				
5500V3-96G-AC-3	5500 V3(2U, Dual Ctrl,AC,96GB,8*8G FC,12*3.5",SPE33C0212)	1		
LPU4TOE10V3	4 port 10Gb Eth I/O module (optical SFP+)	2		
SAS1200-10K-2-1	1200GB 10K RPM 4KN SAS Disk Unit(2.5")	30		
NLSAS4T-7.2K-01	4000GB 7.2K RPM NL SAS Disk Unit (3.5")	60		
DAE22525U2-1-AC	Disk Enclosure (2U,AC,2.5",Expanding Module,25 Disk Slots,without Disk Unit,DAE22525U2)	2		
DAE22435U4-1-AC	Disk Enclosure (4U,AC,3.5",Expanding Module,24 Disk Slots,without Disk Unit,DAE22435U4)	2		
SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,OM3 bending insensitive	16		
HS-SAS-5-01	High Speed Cable,Mini SAS HD Cable,5m,(SFF 8644 Plug),(26AWG*4P*2B(S)),(SFF 8644 Plug),Indoor use	3		
LIC-5500V3-BS	Basic Software License for Block (Include Device Management,SmartThin,SmartMulti-tenant,SmartMigration,SmartErase,SmartMotion,Cloud Service)	1		
LIC-55-HYPERPAK	Data Protection Software suit License (HyperSnap,HyperCopy,HyperClone,HyperMirror)	1		
LIC-55-SMARTPAK	Storage efficiency Software suit License (SmartTier,SmartCache)	1		
LIC-5500V3-QOS	SmartQos License	1		
LIC-5500V3-PAR	SmartPartition License	1		
LIC-5500V3-PATH	OceanStor HW UltraPath Software License	1		
STOSRDFORBCDK	OceanStor ReplicationDirector Software Base Edition	1		
Expanding Interface Module				
LPU4S12V3	4 port 4*12Gb SAS I/O module (MiniSAS HD)	2		
Disk Components				
SAS10K-1.2T2S-A1	1.2TB 10K RPM SAS Disk Unit (2.5")	20		
HSSD-3.6TG2S-A4	3.6TB SSD SAS Disk Unit(2.5")	4		

NLSAS7.2-8T3S-A4	8TB 7.2K RPM NL SAS Disk Unit(3.5")	12		
Dis Enclosure k				
DAE22525U2-1-AC	Disk Enclosure (2U,AC,2.5",Expanding Module,25 Disk Slots, without Disk Unit,DAE22525U2)	5		
DAE22435U4-1-AC	Disk Enclosure (4U,AC,3.5",Expanding Module,24 Disk Slots, without Disk Unit,DAE22435U4)	2		
vi. Oceanstor Dorado 3000 V3				
Dual controller Unit 1		1		
SAS Controller Enclosure				
02352QB P	D3V3-192G-SAC-10	Dorado3000 V3(2U,Dual Ctrl,AC\240HVDC,192GB,SmartIO,8*10Gb ETH,25*2.5",SPE34C0225)	1	
SAS Expanding Interface Module				
3058454	DV3-SMARTIO4FC16	4 ports SmartIO I/O module(SFP+,16Gb FC)	2	
SAS Disk Components				
02352QC V	D3V3-SSD-SAS-7.68TE	7.68TB SSD SAS Disk Unit(2.5")	22	
Installation Material				
14130858	SN2F01FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,3m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	16	
System Software				
88035NG K	D3V3-LBSA	All-Software License Package (All Value-added SAN Software Including SmartCompression, SmartDedupe, HyperSnap, HyperMetro, HyperCDP,HyperReplication,HyperCopy)	1	
Note: keeping in view to the technical advancement and requirements, (All Flash) All NVMe Disks (Connection on 16G FC) SAN storage will be preferred.				
10. Network Equipment				
Model	Description	QTY		
S12700 Agile Switch(V200R005)		3		
Hardware				
Basic Configuration				
LE2BN66EA000	N66E AC Assembly Rack(Four 16A Outputs,maximum 2500W per output,600X600X2200mm)	1		
ET1BS12708S0	S12708 Assembly Chassis	1		
Main Control Unit				
ET1D2MPUA000	S12700,Main Processing Unit A(Optional clock)	1		

Switch Control Unit				
ET1D2SFUD000	S12708/S12712,Switch Fabric Unit D	1		
100/1000BASE-X Interface Card				
ET1D2G48SEAO	48-Port 100/1000BASE-X Interface Card(EA,SFP)	1		
10GBASE-X Interface Card				
ET1D2X16SSCO	16-Port 10GBASE-X Interface Card(SC,SFP+)	1		
Optical Transceiver				
GE-SFP Optical Transceiver				
SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	1		
SFP-GE-LX-SM1310	Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,10km,LC)	1		
10GE-SFP+ Optical Transceiver				
OMXD30000	Optical Transceiver, SFP+,10G,Multi-mode Module(850nm,0.3km,LC)	1		
Power				
PAC-2200WF	2200W AC Power Module	1		
Software				
ET1SM2512700	S12700 Basic SW, V200R005	1		
Installation Material				
Patch Cords				
SS-OP-D-LC-S-10	Patch cord-LC/PC-LC/PC-Single mode-G.652D-2mm-10m-PVC-Yellow	1		
SS-OP-D-LC-M-10	Patch cord-LC/PC-LC/PC-Multimode-A1b-2mm-10m-PVC-Orange	1		
Power Cable				
C1016YG00	Power Cable,450V/750V,60227 IEC 02(RV),16mm ² , Yellow/Green,85A,CCC,CE (Unit:meter)	1		
C3018BK00	Power Cable,300V/500V,60227 IEC 10(BVV),3x6mm ² ,Black(3Cores:Brown,Blue,Yellow/Green),46A,Outdoor Cable,CCC,CE (Unit:meter)	1		
ET1D2G48SEAO	48-Port 100/1000BASE-X Interface Card(EA,SFP)	1		
ET1D2X16SSCO	16-Port 10GBASE-X Interface Card(SC,SFP+)	1		
SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)	12		
SFP-GE-LX-SM1310	Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,10km,LC)	12		
OMXD30000	Optical Transceiver, SFP+,10G, Multi-mode Module(850nm,0.3km,LC)	8		
Rack Switch(es)				

S 5320-28x-PWR-SL (RACK SWITCHES)		2	
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Note: To provide the 25 G bandwidth communication for server's/services landscape, 25GE SFP's in each switch and 100GE interface cards and 100GE MM optical transceivers along with required technical/software specifications are required to comply the network requirements up to the mark, as per HEC network deployment requirements.

SAN Switch(es): FC Switch, SNS2624 / SNS3664 / SNS 3696E /SNS 2224			
Main Equipment			
02353VBK	SNS3664-2416G-AC-R	32Gb FC Switch,64 Ports (24 ports activated,with 24*16Gb Multimode SFPs,Port-side Exhaust Air Flow),Dual PS(AC)	6
Installation Material			
21242938	SN2R02FCRK3	Mount Kit(Direct delivery material)	6
Multimode Patch Cord			
14130860	SN2F02FCPC	Patch Cord,DLC/PC,DLC/PC,Multi-mode,10m,A1a.2,2mm,42mm DLC,OM3 bending insensitive	168

11. Power and Datacenter Infrastructure details for Post Warranty Support & Maintenance			
No.	Model	Description	QTY
1	UPS5000-E-80kVA		
1.1	UPS5000-E-40-200KVA		
	PM40K-V4S	UPS, UPS5000-E, 40kVA Power Module	8
	UPS5000-E-200K-F200	UPS, UPS5000-E-F200 Cabinet	2
1.2	UPS5000 Auxiliary Components		
	UPSMBIUNIT00	Energy,UPS5000,Battery Inspection Unit Assembly	12
	UPSCU5KLBS01	Monitor&Alarm Cable,LBS cable,10m,D15F,CC8P0.48B(S),D15F	2
	UPSCU5KUMC01	Monitor&Alarm Cable,UPS5000 merge cable,10m,D15M,CC8P0.48B(S),D15M	2
1.3	Battery		
	WSD015000	Rechargeable Battery,VRLA battery,12V,150Ah,12V Monobloc,496*203*220mm, - UPS battery	192
1.4	Battery Rack		
	EBR150A4002	UPS Battery rack-A-12V 150Ah-40-R-V4-1169*1209*1472mm,Without Battery cables	6
	EBRCBundle12	Cable Bundle,UPS5000,match for Battery rack 24040467and Battery 24020999(30min discharge),,4-layer vertical rack,one side cabling,50mm^2	6
1.5	Battery Switch Box		
	PDC-0250DC0384BXA	Battery switch-box-250A-3wire-384VDC(+192V/-192V)-with Neutral-up to 40pcs 12V battery-Remote Control/Shunt Release	6

	UPSCPDCBBB03	Battery Bus Bar Box-630A-750VDC	2		
1.6	Cables for UPS				
	C1095BL05	Power Cable,600V/1000V,ZA-YJV,(4x95+1x50)mm ² ,Black(4+1Cores:Yellow,Green,Red,Blue,Black),328A,CE (Unit:meter)	40		
1.7	Cables from Battery Breaker Boxes to UPS				
	Ethernet twisted-pair cable	Twisted-Pair Cable,100ohm,Category 5e,FTP,0.52mm,24AWG,8Cores,4Pairs,PANTONE 430U,Use with Plug:14080097	100		
	C1150RE00	Power Cable,600V/1000V,ZA-RVV,150mm ² ,Red,344A,Single-core Double Insulation,CE (Unit:meter)	80		
	C1150BL00	Power Cable,600V/1000V,ZA-RVV,150mm ² ,Black,300A,Single-core Double Insulation,CE (Unit:meter)	80		
	C1150BLU00	Power Cable,600V/1000V,ZA-RVV,150mm ² ,Blue,300A,Single-core Double Insulation,CE (Unit:meter)	80		
	C1150YG00	Power Cable,600V/1000V,ZA-RVV,150mm ² ,Yellow/Green,344A,Single-core Double Insulation,CE (Unit:meter)	10		
1.8	Cables between Battery Breaker Boxes				
	C1095RE01	Power Cable,600V/1000V,ZA-RVV,95mm ² ,Red,258A,Single-core Double Insulation,CE (Unit:meter)	32		
	C1095BL01	Power Cable,600V/1000V,ZA-RVV,95mm ² ,Black,225A,Single-core Double Insulation,CE (Unit:meter)	32		
	C1095BLU00	Power Cable,600V/1000V,ZA-RVV,95mm ² ,Blue,225A,Single-core Double Insulation,CE (Unit:meter)	32		
	C1050YG01	Power Cable,600V/1000V,ZA-RVV,50mm ² ,Yellow/Green,145A,Single-core Double Insulation,CE (Unit:meter)	30		
1.9	UPS5000 Auxiliary				
	JG0120M10RO0	Naked Crimping Connector,JG,120mm ² ,M10,380A,Tin Plating	76		
	DT0150M12RO0	Naked Crimping Connector,DT,150mm ² ,M12,440A,Tin Plating	36		
	OT0060M8RO00	Naked Crimping Connector,OT,60mm ² ,M8,200A,Tin Plating	16		
	OT0050M10RO0	Naked Crimping Terminal,OT,50mm ² ,M10,Tin Plating,Naked Ring Terminal	12		
1.1	PDU		1		
1.1	PDU				

0.1				
	Precise PDC			
	IDSPDC0400A0	Power distribution cabinet, PDU8000-0400A	1	
2	iManager NetEco For Data Center V600R002 (Smart Devices:50)		1	
2.1	Hardware			
	IT Auxilliary Equipment			
	Neteco Server Module (02311XDB,H12H-05-S8AFF)	1288H V5 , RAM DDR4 64*2, HDD 1200 GB*3 (as per deployment)	1	
	LS-S2326TP-PWR-EI11	S2326TP-PWR-EI Mainframe(24 10/100 BASE-T ports and 2 Combo GE(10/100/1000 BASE-T+100/1000 Base-X) ports ,PoE,Chassis,Dual Slots of power,With Power)	1	
	Energy Auxiliary			
	IDSECC500SE0	Energy Control Center 500 Serial	2	
	IDSRS485CMB0	RS485 Communication Board	4	
	TEMHUMSENS00	Temperature&Humidity Sensor,9~16VDC,-20degC~+75degC,0%~100%RH,+/-0.3degC(25degC)	2	
	CPWR20AWG00	Power Cable,300V,UL2464,7x20AWG,Black(7Cores:Red,Black,Yellow,Green,Orange,White,Blue),10A,Non-shielding Cable,UL (Unit:meter)	20	
	OT05M612M	Common Terminal,Single Cord End Terminal,Conductor Cross Section 0.5mm^2,Length 12mm,5A,Insertion Depth 6mm,Orange	60	
	LIQLVLENS02	Rope of the Regional Water Leakage Sensor	15	
	IDS2SMKSEN00	Smoke Sensor	2	
	LIQLVLENS00	Regional Water Leakage Sensor	1	
	IDSROFCTRL01	skylight controller	1	
	IDS2PWRCBL00	Power Cords Cable,China AC Power 250V10A,1.5m,C14SM,227IEC53(RVV)1.0mm^2(3C),C13SF,PDU Cable	12	
	ENCable7A000	Power Cable,300V/500V,60227 IEC 53(RVV),2x0.75mm^2,Black(2Cores:Brown,Blue),7A,Flat Outdoor Cable,CCC,CE (Unit:meter)	20	
	C0000FE00	Twisted-Pair Cable,100ohm,Category 5e UTP,0.51mm,24AWG,8Cores,PANTONE 430U,Use with Plug:14080082	305	
	Connector	Network Interface Connector,8Bit 8Pin,Crystal Plug,Matching 25050014	60	

	PWRCBL20AWG	Power Cable,300V,UL2464,4x20AWG,Black(4Cores:Yellow,Green,Violet,White),10A,Non-shielding Outdoor Cable,UL (Unit:meter)	40		
2.2	Software				
	Basic Software				
	WM5BSCSOFT02	IDS Management Basic Software NetEco V600R002(per 25 Smart Nodes Access)	2		
2.3	Network Power OSS License				
	Data Center Management				
		The number of Manager Smart Devices	50		
		Client amount license	5		
3	IDS2000 Single Row-1200mm,Contained Cold Aisle,0.0kW per Rack,9 IT Racks		1		
3.1	Cabinet System				
	NetHOS42612 Server Cabinet				
	Cabinet Components				
	IDSV2CABFN00	Rack,FR42612W,with front door,without side plate,without bottom plate,with wheel,600mm-1200mm-2000mm,42U	9		
	IDSV2SDPANL2	1200x2000mm cabinet side panel	36		
	Equipment Installation Components				
	IDS2PDUCON01	2m PDU bracket	9		
	Wind Managemnet Components				
	IDS2BLKPNL01	Blank panel,1U	378		
	IDSV2BTMPLT00	Bottom plate of front supply air cabinet, width 600mm	9		
	Cable Managemnet Components				
	IDS2CABRNG00	Cable ring	54		
	rPDU				
	IDSV2ACPDUM0	Rack Power Distribution Unit,Metered Type,PDU2000-32-1PH-20/4-M1,Output Outlet 20*C13+4*C19,7.3KVA	18		
	Aisle Components				
	IDS2V2CBLRT1	Cable trough,600mm-305mm-185mm	7		
	IDSCBLTRY00	Cable trough,800mm-305mm-185mm	1		

	IDS2V2ENDSK1	End plate of cable trough,310mm-185m	1		
	IDSBTMMTKIT1	Bottom mounting kit of aisle door for 1200mm depth and 800mm width cabinet	1		
	IDS2V2CABSEL01	800mm width cabinet sealing plate	1		
	IDSCTRCEIL02	600mm control skylight	1		
	IDSCTRCEIL03	800mm control skylight	1		
	IDSNOMCEIL06	600mm flat skylight	13		
	IDSSELPLT02	Sealing plate,600mm-42mm-2000mm	7		
	IDSSELPLT03	Sealing plate,800mm-42mm-2000mm	1		
	IDS2V2CABSEL	600mm cabinet sealing plate	6		
	IDSBTMMTK001	Bottom mounting kit of aisle door for 1200mm deep and 600mm width cabinet	1		
	IDSDBLDOR000	Double revolving door,for 2000mm height cabinet	2		
	IDSTPFRMK00	Top frame kit of double revolving door, for 2000mm height cabinet	1		
	IDSACCONMT00	Mounting plate for access control ,1U	1		
	IDSV2COPBAR1	Rack copper bar for grounding(24xM8)	1		
	IDSSKLTLOCK00	Sunroof electromagnetic lock	8		
3.2	Cabling System				
	rPDU Input Cable				
	CRDTER0006BK	Common Terminal,Conductor Cross Section 6mm ² ,Length 20mm,30A,Insertion Depth 12mm,Black	144		
	XELECBW07	Naked Crimping Terminal,OT,6mm ² ,M6,Tin Plating,Insulated Ring Terminal,12~10AWG,yellow	72		
	C3018BK00	Power Cable,300V/500V,60227 IEC 10(BVV),3x6mm ² ,Black(3Cores:Brown,Blue,Yellow/Green),46A,Outdoor Cable,CCC,CE (Unit:meter)	250		
	Door Access System Power Cable				
	ENCordEnd000	Common Terminal,Single Cord End Terminal,Conductor Cross Section 1.0mm ² ,5A,Tin Plating,Insertion Depth 6mm,Yellow	190		
	Skylight Controller Power Cable				
	ENCordEnd000	Common Terminal,Single Cord End Terminal,Conductor Cross Section 1.0mm ² ,5A,Tin Plating,Insertion Depth	56		

		6mm, Yellow			
3.3	Hardware				
	Energy Auxiliary				
	IDSDBLDRK00	Double Door Electromagnetic Lock	2		
	IDSDRACCES01	2 Door IP Access Control System	1		
	IDSICCARD001	IC Card Reader	2		
	IDSPSHBTN000	Push Button	2		
	IDSBKGLSW00	Break Glass Switch	2		
	IDSICCARD000	IC Card	10		
4	800mm IT		1		
4.1	Cabinet System				
	NetHOS42811 Server Cabinet				
	Wind Managemnet Components				
	IDSV2BTMPLT08	800mm Bottom plate for front supply air cabinet	1		
	NetHOS42811 Cable Cabinet				
	Cable Managemnet Components				
	IDS2CABRNG01	Cable ring for small capacity	6		
	NetHOS42812 Cable Cabinet				
	Cabinet Components				
	IDSV2CABFN05	Rack,FR42812W,with front door,without side plate,without bottom plate,with wheel,800mm-1200mm-2000mm,42U	1		
	IDSV2SDPANL2	1200x2000mm cabinet side panel	4		
	Equipment Installation Components				
	IDS2PDUCON01	2m PDU bracket	1		
	Wind Managemnet Components				
	IDS2BLKPNL01	Blank panel,1U	41		
	Cable Managemnet Components				
	IDSV2CBLSLV0	Cable salver,1U	1		
	IDS2CABRCK00	Cable rack,1U	2		

	IDS2CABRNG00	Cable ring	6		
	IDSV2CBLOGN0	Fore-and-aft direction cable organizer for 600 wide cabinet	1		
	rPDU				
	IDSV2ACPDUM0	Rack Power Distribution Unit,Metered Type,PDU2000-32-1PH-20/4-M1,Output Outlet 20*C13+4*C19,7.3KVA	2		
5	600mm 3Ph		1		
5.1	Cabinet System				
	NetHOS42612 Server Cabinet				
	Cabinet Components				
	IDSV2CABFN00	Rack,FR42612W,with front door,without side plate,without bottom plate,with wheel,600mm-1200mm-2000mm,42U	2		
	IDSV2SDPANL2	1200x2000mm cabinet side panel	8		
	Equipment Installation Components				
	IDS2PDUCON01	2m PDU bracket	2		
	Wind Managemnet Components				
	IDS2BLKPNL01	Blank panel,1U	84		
	IDSV2BTMPLT00	Bottom plate of front supply air cabinet, width 600mm	2		
	Cable Managemnet Components				
	IDS2CABRNG00	Cable ring	12		
	rPDU				
	IDSV2ACPDUM4	Rack Power Distribution Unit,Metered Type,PDU2000-16-3PH-24/6-M1,Output Outlet 24*C13+6*C19,11KVA,Input connection IEC309,16A-5pin	4		
5.2	Cabling System				
	rPDU Input Cable				
	CT02P5MMD12	Common Terminal,Single Cord End Terminal,Conductor Cross Section 2.5mm ² ,12.5A,Insertion Depth 12mm,Blue	64		
	IDSPWRCBL002	Power Cable,600V/1000V,ZA-RVV,5x2.5mm ² ,Black(5Cores:Red,Yellow,Green,Blue,Black),27A,Outdoor Cable,CE (Unit:meter)	27		
	OT2P50M6BL00	Naked Crimping Terminal,OT,2.5mm ² ,M6,Tin Plating,Insulated Ring Terminal,16~14AWG,blue	16		
6	NetCOL (Precision Air-conditioner)380V~415V-3Ph-50Hz		1		
6.1	Air Conditioning System				

	NetCol5000-A035H512D2E120E1	Precision-Air-conditioner, Air Cooled, Indoor Unit,35kW,NetCol5000-A035H512D2E120E1,Horizontal air flow,380~480V,3Ph,50Hz/60Hz,Electric Heating/Humidifie/Condensate Pump,R410A(without R410A),EC Fan	2		
	NetCol500-A0385C11E0	Precision Air-conditioner, Air Cooled, Outdoor Unit (HUAWEI Driver Normal temperature),NetCol500-A0385C11E0,380~480V,3Ph,50Hz/60Hz,Cooling Only,R410A(withoutR410A),AC Fan	2		
6.2	Auxiliary Items				
	IDSTAILFRME00	tail frame	2		
	UPSMTemHum00	Ambient Temperature and Humidity Sensor	8		
	IDSSIGCBLE00	Signal Cable,NetCol5000 Humidity and Temperature Sensor Signal Cable,10m,MP6,(CC4P0.48B(S)),MP6	8		
6.3	Cabling System				
	IDSPWRCBL006	Power Cable,600V/1000V,ZA-RVV,5x6mm ² ,Black(5Cores:Red,Yellow,Green,Blue,Black),46A,Outdoor Cable,CE (Unit:meter)	50		
	IDSPWRCBL002	Power Cable,600V/1000V,ZA-RVV,5x2.5mm ² ,Black(5Cores:Red,Yellow,Green,Blue,Black),27A,Outdoor Cable,CE (Unit:meter)	100		
	ENPWRCBL01	Power Cable,450V/750V,H07RN-F,2x1mm ² ,Black(2Cores:Brown,Blue),10A,Rubber Cable,VDE (Unit:meter)	50		
7	Data Center Infrastructure Management System				
7.1	Hardware				
7.1.2	Energy Auxiliary				
	IDSECC500SE0	Energy Control Center 500 Serial	1		
	IDSRS485CMB0	RS485 Communication Board	1		
	TEMHUMSENS00	Temperature & Humidity Sensor,9~16VDC,-20degC~+75degC,0%~100%RH,+/-0.3degC(25degC)	2		
	LIQLVLENS02	Liquid Level Sensor,5m, reserved interface, extended to 50m	2		
	IDS2SMKSEN00	Smoke Sensor,9~16V,Other installation type	2		
	LIQLVLENS00	Liquid Level Sensor	2		
	IDS2PWRCBL00	Power Cords Cable, China AC Power 250V10A,1.5m,C145M,227IEC53(RVV)1.0mm ² (3C),C13SF,PDU Cable	1		

	PWRCBL20AWG	Power Cable,300V,UL2464,4x20AWG,Black(4Cores:Yellow,Green,Violet,White),9A,Non-shielding Outdoor Cable,UL (Unit:meter)	20		
7.2	Software				
7.2.1	Basic Software				
	WM5BSCSOFT07	Management Basic Software NetEco V600R007(per 25 Smart Nodes Access)	1		
8	FusionModule2000 V500R002				
8.1	Cabinet System				
8.1.1	NetHOS42610 Server Cabinet				
	IDSV2ACPDUM0	Distribution line-Metered type-PDU2000-32-1PH-20/4-M1-20*C13+4*C19-Full height vertical-With Industrial connector-Supporting mounting plate use	16		
8.2	Cabling System				
8.2.1	rPDU Input Cable				
	CRDTER0006BK	Common Terminal,Conductor Cross Section 6mm ² ,Length 20mm,30A,Insertion Depth 12mm,Black	128		
	XELECBW07	Naked Crimping Terminal,OT,6mm ² ,M6,Tin Plating,Insulated Ring Terminal,12~10AWG,yellow	64		
	C3018BK00	Power Cable,300V/500V,60227 IEC 10(BVV),3x6mm ² ,Black(3Cores:Brown,Blue,Yellow/Green),46A,Outdoor Cable,CCC,CE (Unit:meter)	87		
9.	Intelligent Surveillance Camera				
9.1	C32 Dome Camera				
	02353DTM	C3221-10-I	C3221-10-I 2MP IR Dome Camera	1	
9.2	IVS1800				
	IVS1800 Series Main Devices				
	98061227	IVS1800-C08-4T 16CH B	Up to 16-ch video access, storage, and forwarding,16-ch 1080p decoding,2*HDMI	1	
	02353HTP	IVSMSMR6T000	6TB Disk Dedicated to IVS,SATA 6Gb/s,5400rpm,3.5inch	2	
9.3	IVS1800 Series Auxiliary Equipment				
	04070006	CSST00301	Signal Cable,Shielded Straight Through Cable,3m,MP8-II,CC4P0.5GY(S),MP8-II,FTP	1	
	04051125	CHDMI3M05	3m-HDMI 2.0 Cable	1	
	21242246	E00TSLD00	Extension Guide Rail	1	
Optional Items					

1.	UPS5000 (Karachi)				
1.1	UPS5000-E-40-200KVA				
	PM40K-V4S	UPS, UPS5000-E, 40kVA Power Module	2		
	UPS5000-E-120K-F120	UPS, UPS5000-E-F120 Cabinet	1		
1.2	UPS5000 Auxiliary Component				
	UPSMBIUNIT00	Energy,UPS5000,Battery Inspection Unit Assembly	4		
1.3	Battery				
	WSD015000	Rechargeable Battery, VRLA battery,12V,150Ah,12V Monobloc,496*203*220mm,(shuangdeng 6-GFM-150) - UPS battery	64		
1.4	Battery Rack				
	EBR150A4002	UPS Battery rack-A-12V 150Ah-40-R-V4-1169*1209*1472mm,Without Battery cables	2		
	EBRCBundle17	Battery rack Internal Cable Bundle	2		
1.5	Battery Switch Box				
	PDU8000-0063DCV8-BXA002	Battery Circuit Breaker Box-63A-4P-600VDC	2		
1.6	Cables for UPS				
	C1050BL03	Electronic Electric Cable,600V/1000V,ZA-YJV,(4x50+1x25)mm ² ,Black(4+1Cores:Yellow,Green,Red,Blue,Black),179A	30		
1.7	Cables from Battery Bus Bar Box or Battery Circuit Breaker Box or Battery Cabinet to UPS or HVDC				
	Ethernet twisted-pair cable	Twisted-Pair Cable,100ohm,Category 5e,FTP,0.52mm,24AWG,8Cores,4Pairs,PANTONE 430U,Use with Plug:14080097	50		
	C1035RE01	Power Cable,600V/1000V,ZA-RVV,35mm ² ,Red,115A,Single-core Double Insulation, CE (Unit: meter)	40		
	C1035BL02	Power Cable,600V/1000V,ZA-RVV,35mm ² ,Black,138A,Single-core Double Insulation, CE (Unit: meter)	40		
	C1035BLU00	Power Cable,600V/1000V,ZA-RVV,35mm ² ,Blue,138A,Single-core Double Insulation, CE (Unit: meter)	40		
	C1016YG01	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Yellow/Green,85A,Single-core Double Insulation, CE (Unit: meter)	10		
1.8	Cables between battery switch box or Cables from battery switch box to combiner box				
	C1016RE02	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Red,76A,Single-core Double Insulation, CE (Unit: meter)	10		
	C1016BL03	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Black,85A,Single-core Double Insulation, CE (Unit: meter)	10		
	C1016BL02	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Blue,85A,Single-core Double Insulation, CE (Unit: meter)	10		
	C1016YG01	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Yellow/Green,85A,Single-core Double Insulation, CE (Unit: meter)	10		
1.9	UPS5000				
	DT0025M10R00	Naked Crimping Terminal,DT,25mm ² ,M10,130A,Tin Plating	4		
	OT0050M10R00	Naked Crimping Terminal,OT,50mm ² ,M10,Tin Plating,Naked Ring Terminal	10		
	OT0035M12R00	Naked Crimping Terminal,OT,35mm ² ,M12,Tin Plated,Naked Ring Terminal	7		
	OT0035M6R000	Naked Crimping Terminal,OT,38mm ² ,M8,Tin Plating,Naked Ring Terminal,for 35mm ² ~38mm ² cable	7		

	OT0016M8R000	Naked Crimping Terminal,OT,16mm ² ,M8,Tin Plating,Naked Ring Terminal	18		
	XELECBW10	Naked Crimping Terminal,OT,16mm ² ,M6,Tin Plating,Naked Ring Terminal	4		
	IDSV2ACPDUM0	Distribution line-Metered type-PDU2000-32-1PH-20/4-M1-20*C13+4*C19-Full height vertical-With Industrial connector-Supporting mounting plate use	18		
	CRDTER0006BK	Common Terminal, Conductor Cross Section 6mm ² ,Length 20mm,30A,Insertion Depth 12mm,Black	144		
	XELECBW07	Naked Crimping Terminal,OT,6mm ² ,M6,Tin Plating,Insulated Ring Terminal,12~10AWG,yellow	72		
	C3018BK00	Power Cable,300V/500V,60227 IEC 10(BVV),3x6mm ² ,Black(3Cores:Brown,Blue,Yellow/Green),46A,Outdoor Cable,CCC,CE (Unit:meter)	98		
2.	UPS5000 (LAHORE)				
	PM40K-V4S	UPS, UPS5000-E, 40kVA Power Module	2		
	UPS5000-E-120K-F120	UPS, UPS5000-E-F120 Cabinet	1		
	UPSMBIUNIT00	Energy, UPS5000,Battery Inspection Unit Assembly	4		
	WSD015000	Rechargeable Battery,VRLA battery,12V,150Ah,12V Monobloc,496*203*220mm,(shuangdeng 6-GFM-150) - UPS battery	64		
	EBR150A4002	UPS Battery rack-A-12V 150Ah-40-R-V4-1169*1209*1472mm,Without Battery cables	2		
	EBRCBundle17	Battery rack Internal Cable Bundle	2		
	PDU8000-0063DCV8-BXA002	Battery Circuit Breaker Box-63A-4P-600VDC	2		
	C1050BL03	Electronic Electric Cable,600V/1000V,ZA-YJV,(4x50+1x25)mm ² ,Black(4+1Cores:Yellow,Green,Red,Blue,Black),179A	30		
	Ethernet twisted-pair cable	Twisted-Pair Cable,100ohm,Category 5e,FTP,0.52mm,24AWG,8Cores,4Pairs,PANTONE 430U,Use with Plug:14080097	50		
	C1035RE01	Power Cable,600V/1000V,ZA-RVV,35mm ² ,Red,115A,Single-core Double Insulation,CE (Unit:meter)	40		
	C1035BL02	Power Cable,600V/1000V,ZA-RVV,35mm ² ,Black,138A,Single-core Double Insulation,CE (Unit:meter)	40		
	C1035BLU00	Power Cable,600V/1000V,ZA-RVV,35mm ² ,Blue,138A,Single-core Double Insulation,CE (Unit:meter)	40		
	C1016YG01	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Yellow/Green,85A,Single-core Double Insulation,CE (Unit:meter)	10		
	C1016RE02	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Red,76A,Single-core Double Insulation,CE (Unit:meter)	10		
	C1016BL03	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Black,85A,Single-core Double Insulation,CE (Unit:meter)	10		
	C1016BL02	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Blue,85A,Single-core Double Insulation,CE (Unit:meter)	10		
	C1016YG01	Power Cable,600V/1000V,ZA-RVV,16mm ² ,Yellow/Green,85A,Single-core Double Insulation,CE (Unit:meter)	10		
	DT0025M10R00	Naked Crimping Terminal,DT,25mm ² ,M10,130A,Tin Plating	4		
	OT0050M10R00	Naked Crimping Terminal,OT,50mm ² ,M10,Tin Plating,Naked Ring Terminal	10		
	OT0035M12R00	Naked Crimping Terminal,OT,35mm ² ,M12,Tin Plated,Naked Ring Terminal	7		

	OT0035M6R000	Naked Crimping Terminal,OT,38mm ² ,M8,Tin Plating,Naked Ring Terminal,for 35mm ² ~38mm ² cable	7		
	OT0016M8R000	Naked Crimping Terminal,OT,16mm ² ,M8,Tin Plating,Naked Ring Terminal	18		
	XELECBW10	Naked Crimping Terminal,OT,16mm ² ,M6,Tin Plating,Naked Ring Terminal	4		

C. General / Technical Support Specification or Requirements

01.	<p>General Technical Requirements</p> <p><i>i. Language Support: All information technologies must provide support for the English Language. Specifically, all display technologies and software must support the ISO-8859-1</i></p> <p><i>i. DATES: All information technologies MUST properly display, calculate, and transmit date data, including, but not restricted to 21st-Century date data.</i></p> <p><i>ii. Electrical Power: All active (powered) equipment must operate on 220v +/- 20v, 50Hz +/- 2Hz. All active equipment must include power plugs standard in Pakistan.</i></p>
02.	<p>Minimum requirements for Service Level Agreement</p> <p>The following requirements for SLA apply to the scope of work defined in Bid Data Sheet (BDS), ITB No. 1.1 and Invitation to Bids (ITB), 3 (e) for this project. The bidder will be responsible to provide:</p> <ol style="list-style-type: none"> 1. Selected Bidder shall provide onsite Warranty/Services / Software Support and Bidder shall ensure that all Data Centers hardware are free from any sort of defects for the warranty period. 2. Selected Bidder shall be responsible for Smooth operation of Data Centers 24/7/365 within warranty services period by deputing necessary workforce i.e. 06-resident engineers in Islamabad, and also will place two (2) resident engineers in Lahore and Karachi Data Centers. 3. Selected Bidder shall provide comprehensive warranty/ services for a period of three year. However, Optional items part as referred in above BOQ table, for Lahore and Karachi sites datacenter infrastructure, comprehensive warranty/services support may be considered on yearly basis as per requirement of HEC and may be quoted separately in pricing as well. 4. Selected Bidder shall be responsible for installation and configuration of the servers, storages and network equipment cater under warrantee services as per HEC requirement and will be responsible for configuration of the operating system, clustering service and any high availability failover services. 5. Selected Bidder shall be responsible for the supply, installation, configuration, integration, testing and commissioning of replaced faulty equipment in HEC Data Centers (Islamabad, Lahore and karachi) as per requirements of HEC under this contract. 6. Selected Bidder shall be responsible for configuration of failover cluster / high availabilities services and its configuration related to virtual machine hosting services and any system/data migrations (hardware /software/platform/services related) activity required during this period of services, as deemed and approved by HEC. 7. Selected Bidder shall be responsible for replacement of any equipment completed its life during warranty services period and Principal declared it as end of life/Support. 8. Selected Bidder shall be responsible for provisioning of comprehensive parts warranty of UPS along with batteries replacement, UPS input output power DBs and cables.

	<p>9. Selected Bidder shall carry out preventive and corrective maintenance on monthly basis throughout the SLA period for power equipment and Monthly reports shall be submitted to HEC in hard/email/fax.</p> <p>10. Selected Bidder shall ensure that the comprehensive parts warranty and maintenance services of parts replacement as deem necessary i.e. electrical and mechanical soundness of UPS, preventive maintenance, corrective maintenance, predictive maintenance, technical assistance and any other fault rectification relating to the smooth operations and safety of all the UPS's throughout the SLA period.</p> <p>11. In-Case of UPS, Selected Bidder shall be responsible for preventive and corrective maintenance as per details finalized by HEC. Selected Bidder shall clean the battery cables and terminals; tighten and apply corrosion protection as per details finalized by HEC.</p> <p>12. In-case of Precision Cooling System, Selected Bidder Shall be responsible for preventive maintenance which will include gas filling, compressor health check, condenser health check, indoor outdoor service, filter changing/cleaning etc and as per details finalized by HEC nominated officer at the time finalization of agreement.</p> <p>13. Response time of the Selected Bidder in the context of warranted services at all days, 24 X 7x365, shall be 1 hour from the reporting of the fault.</p> <p>14. Selected Bidder must ensure the escalation response time through their engineer's in business hours, the escalation time shall be 30 minutes in working hours and 1.5 hours in non-working hours. Maximum restoration time allowed shall be three (4) hours.</p> <p>15. Comprehensive Support & services must be provided for a period of three years on-site from the bidder and online support and services from the bidder and principal as per requirements.</p> <p>16. Preventive maintenance in respect of system and its auxiliaries must be carried out on monthly basis.</p> <p>17. Onsite support through a dedicated resource for Higher Education Commission during business hours for implementation and maintenance of the solution and analysis, reporting and scanning of HEC system/ servers/ services from the solution as per details mentioned in Bid Data Sheet (BDS), ITB No. 1.1 and Invitation to Bids (ITB), 3 (e).</p> <p>18. The onsite resource will also assist and train HEC relevant resources along with the resolution of issue, ensuring knowledge transfer and high support standards.</p> <ul style="list-style-type: none"> • Technical on-call support • Technical support via remote sessions as and when required <p>19. Online support through a ticketing system along with access to online OEM customer portal (24x7x365) for knowledgebase and support cases, product updates, license details, procedures along with history, patch upgrades, software downloads and maintenance.</p> <p>20. The resources must be certified for the proposed tools at Section V, Schedule of Requirements, Technical Specification & Requirement, Technical Requirements etc</p> <p>21. Response time of the successful bidder in the context of warranted services at all days, 24x7, shall be one hour from the reporting of the fault, in case reported incident is critical. The Bidders must ensure the support services/ escalation provision response time as per following table through the dedicated engineer's deputed onsite in business hours as per following:</p>
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Classification of Service	Response Time by Vendor	Work Around by Solution Bidder	Permanent Fix by Bidder
Critical: Priority 1	Acknowledgment Within half an hour of receiving report of the problem. Support team will provide feedback in respect of such problems on a 2 (two) hourly basis till the issue resolution.	To provide workaround solution and restore operations within 04 - 06 (six) hours	In two (2) calendar days
Important: Priority 2	Acknowledgment Within 1 (one) hour of receiving report of the problem. Support team will provide feedback in respect of such problems on a 4 (four) hourly basis till the issue resolution.	To provide workaround solution within 08 - 12 hours.	In three (3) working days
High: Priority 3	Acknowledgment Within 1.5 (one and half) hour of receiving report of the problem. Support team will provide feedback in respect of such problems on a 6 (six) hourly basis till the issue resolution.	To provide workaround solution within 24 to 48 hours	In five (5) working days
Low: Priority 4	Acknowledgment Within 3 (three) hours of receiving report of the problem. Support team will provide feedback in respect of such problems on a 12 hourly basis till the issue resolution.	To provide workaround solution within 4 – 6 days	In 10 (ten) working days

03.	<p>Documentation Requirements</p> <p>i. Technical Documents: Design Diagrams, HLDs, LLDs, Datasheets and other necessary documents supporting the technical compliance of the items requested at Section V, Schedule of Requirements, Technical Specification & Requirement, Technical Requirement, 02 [(a), (b), (c), (d) & (e)].</p>
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D: Implementation Schedule Table

[Specify desired delivery, installation, and acceptance dates for all items in Schedule below, modifying the sample line items and sample table entries as needed.]

Line-Item No.	Subsystem / Item	Delivery (Bidder to specify in the Preliminary Project Plan)	Installation (weeks from EffectiveDate)

1.	Submit Project Plan mentioning all items		
2.	Miscellaneous		

2. SECTION VI: STANDARD FORMS

Form 1: Letter of Bid

INSTRUCTIONS TO BIDDERS: (delete this box once you have completed the document)

Place this Letter of Bid in the first envelope "TECHNICAL PROPOSAL".

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

Note: All italicized text in black font is to help Bidders in preparing this form and Bidders shall delete it from the final document.

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

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

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

To: Higher Education Commission

We, the undersigned Bidder, hereby submit our Bid, in two parts, namely:

- (a) the Technical Proposal, and
- (b) the Financial Proposal.

In submitting our Bid we make the following declarations:

- (a) **No reservations:** We have examined and have no reservations to the bidding document, including addenda issued in accordance with Instructions to Bidders (ITB 9);
- (b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITB 3;
- (c) **Bid/Proposal-Securing Declaration:** We have not been suspended nor declared ineligible by the HEC based on execution of a Bid Securing Declaration or Proposal Securing Declaration in the HEC's country in accordance with ITB 4;
- (d) **Conformity:** We offer to supply in conformity with the bidding document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: *[insert a brief description of the Goods and Related Services];*
- (e) **Total Price:** The total price of our Bid, excluding any discounts offered in item (c) below is:

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

- (f) **Discounts (if any):**
- (g) **Bid Validity Period:** Our Bid shall be valid for the period specified in **BDS 17.1** (as amended, if applicable) from the date fixed for the Bid submission deadline specified in **BDS 23.1** (as amended, if applicable), and it shall remain binding upon us, and maybe accepted at any time before the expiration of that period;
- (h) **Performance Security:** If our Bid is accepted, we commit to obtain a performance security in accordance with the bidding document;
- (i) **One Bid per Bidder:** We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other bid(s) as a Joint Venture member or as a

subcontractor, and meet the requirements, other than Alternative Bids submitted in accordance with **ITB 19**;

- (j) **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the HEC. Further, we are not ineligible under Pakistan laws;
- (k) **State-owned enterprise or institution:** *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of]*;
- (l) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (m) **Not Bound to Accept:** We understand that you are not bound to accept the Most Advantageous Bid or any other Bid that you may receive; and
- (n) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.

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

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

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

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

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

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

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

Bidder Information Form

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

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

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

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

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member: <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
<p>6. Bidder's Authorized Representative Information</p> <p style="margin-left: 20px;">Name: <i>[insert Authorized Representative's name]</i></p> <p style="margin-left: 20px;">Address: <i>[insert Authorized Representative's Address]</i></p> <p style="margin-left: 20px;">Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i></p> <p style="margin-left: 20px;">Email Address: <i>[insert Authorized Representative's email address]</i></p>
<p>7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i></p> <p><input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above.</p> <p><input type="checkbox"/> In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 3.4.</p> <p><input type="checkbox"/> Establishing that the Bidder is not under the supervision of the HEC</p> <p>8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.</p>

Form of Qualification Information

1. Individual Bidders

1.1 Constitution or legal status of Bidder: *[attach copy]*

Place of registration: *[insert]*

Principal place of business: *[insert]*

Power of attorney of signatory of Bid: *[attach]*

1.2 Total annual volume of Supplies delivered (*insert period*) years, in the internationally traded currency specified in the Bid Data Sheet: *[insert]*

1.3 Services performed as prime Supplier on the provision of Services of a similar nature and volume over the last three years. The values should be indicated in the same currency used for Item 1.2 above. Also list details of work under way or committed, including expected completion date.

Project name and country	Name of PA and contact person	Type of Supplies provided and year of completion	Value of Contract
(a)			
(b)			

1.4 Major items of Supplier's Equipment proposed for carrying out the Services. List all information requested below. Refer also to ITB 13.3(c).

Item of equipment	Description, make, and age (years)	Condition (new, good, poor) and number available	Owned, leased (from whom?), or to be purchased (from whom?)
(a)			
(b)			

1.5 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data. Refer also to ITB 13.3(d).

Position	Name	Years of experience (general)	Years of experience in proposed position
(a)			

(b)			
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1.6 Proposed sub-contracts and firms involved. Refer to GCC 18.

Sections of the Services	Value of Sub-contract	Sub-contractor (name and address)	Experience in providing similar Services
(a)			
(b)			

1.7 Financial reports for the last three years: balance sheets, profit and loss statements, auditors' reports, etc. List below and attach copies.

1.8 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List below and attach copies of support documents. We certify/confirm that we comply with eligibility requirements as per ITB 3 of the bidding documents.

1.9 Name, address, and telephone, telex, and facsimile numbers of banks that may provide references if contacted by the HEC.

1.10 Information regarding any litigation, current or within the last three years, in which the Bidder is or has been involved.

Other party(ies)	Cause of dispute	Details of litigation award	Amount involved
(a)			
(b)			

1.11 Information regarding Occupation Health and Safety Policy and Safety Records of the Bidder.

1.12 Statement of compliance with the requirements of ITB 3.4.

1.13 Proposed Program (service work method and schedule). Descriptions, drawings, and charts, as necessary, to comply with the requirements of the bidding documents.

3. Additional Requirements

3.1 Bidders should provide any additional information required in the Bid Data Sheet and to fulfill the requirements of ITB 12.1, if applicable.

We, the undersigned declare that:

- (a) The information contained in and attached to this form is true and accurate as of the date of bid submission.
- (b) The originally submitted pre-qualification information remains essentially correct as of date of submission.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Bidder: _____

Address: _____

Form FIN Financial Situation and Performance

[The following table shall be filled in for the Bidder and for each member of a Joint Venture]

Bidder's Name: *[insert full name]*
 Date: *[insert day, month, year]*
 Joint Venture Member Name: *[insert full name]*
 RFB No. and title: *[insert RFB number and title]*
 Page *[insert page number]* of *[insert total number]* pages

1. Financial data

Type of Financial information in (currency)	Historic information for previous <i>[insert number]</i> years, <i>[insert in words]</i> (amount in currency, currency, exchange rate,)				
	Year 1	Year 2	Year 3		
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

2. Financial documents

The Bidder and its parties shall provide copies of financial statements for *[number]* years pursuant to Section III, Qualifications Criteria and Requirements, Sub-factor 3.1. The financial statements shall:

- (a) reflect the financial situation of the Bidder or in case of JV member, and not an affiliated entity (such as parent company or group member).
 - (b) be independently audited or certified in accordance with local legislation.
 - (c) be complete, including all notes to the financial statements.
 - (d) correspond to accounting periods already completed and audited.
- Attached are copies of financial statements for the *[number]* years required above; and complying with the requirements.

Average Annual Turnover (Annual Sales Value)

[The following table shall be filled in for the Bidder and for each member of a Joint Venture]

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

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

Joint Venture Member Name: *[insert full name]*

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

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

Annual turnover data			
Year	Currency	Exchange rate	PKR equivalent
<i>[indicate calendar year]</i>	<i>[indicate currency]</i>		
		Average Annual Turnover *	

* Total PKR equivalent for all years divided by the total number of years.

Price Schedule Forms

[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. In information systems procurement, the Contract Price (and payment schedule) should be linked as much as possible to achievement of operational capabilities, not just to the physical delivery of technology.]

1. The Schedules do not generally give a full description of the information technologies to be supplied, installed, and operationally accepted, or the Services to be performed under each item. However, it is assumed that Bidders shall have read the Technical Requirements and other sections of these Bidding Documents to ascertain the full scope of the requirements associated with each item prior to filling in the rates and prices. The quoted rates and prices shall be deemed to cover the full scope of these Technical Requirements, as well as overhead and profit.
2. If Bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with the Instructions to Bidders in the Bidding Documents prior to submitting their bid.

Pricing:

1. Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Bidder. As specified in the Bid Data Sheet, prices shall be fixed and firm for the duration of the Contract.
2. No Advance shall be issued.
3. Requirements may be varied (at any stage with prior information/discussion with the service provider(s) according to the needs or actual requirements.
4. HEC Optional/additional services requirements may be requested separately if and only if required by HEC after the completion of this mandatory services requirement part, since it's subject to the requirements justifications/availability of funding/necessary approvals from the HEC.
5. However, purchase order for any additional part/services may be issued in parallel or later to the deployment of mandatory services requirements scope completion, as per HEC discretion and HEC is not bound to issue the purchase order of any additional services/items.
6. Payment schedule: Total cost of solution and all services including software/hardware/licensing solution and training/support services etc. for three years quote as per requirements schedule, shall be divided on three years (payments shall be made as per following schedule: 1st year 50%, and remaining two years 25% each year post annually till the period of contract, of total bid value cost) as per requirement schedule form/costing tables mentioned in below sections.
7. Further it is clarified that, break down for the total 1st year 50% of the total contract value, payment amount/invoice is as following: 80% of the 1st year payment's amount shall be made on successful compliance of SLA terms for the solution delivery including software/licenses etc. (if any) subject to the satisfactory report duly signed by HEC representative (i.e. the solution as a whole at HEC premises/successful implementation/working verifications). While the remaining 20% payment for the 1st year total payment's amount shall be made on successful completion of requisite training/capacity building tasks and issuance of final acceptance certificates etc. While, the remaining years payments will be made on post yearly basis subject to the

- successful provisioning/ completion of support services/SLA as per agreement and in accordance to the payment schedule form.
8. Component (s) / Quantity (ies) mentioned at Supply and Installation Cost Table may be increased or decreased or drop as per actual requirement at the time of Issuance of Purchase order / signing the contract.
 9. Upon acceptance of invoice, payments shall be made within thirty days from the date of submission of each invoice.
 10. Bid prices shall be quoted in the manner indicated and, in the currencies, specified in ITB Clauses 15. Prices must correspond to items of the scope and quality defined in the Technical Requirements or elsewhere in these Bidding Documents.
 11. The Bidder must exercise great care in preparing its calculations, since there is no opportunity to correct errors once the deadline for submission of bids has passed. A single error in specifying a unit price can therefore change a Bidder's overall total bid price substantially, make the bid noncompetitive, or subject the Bidder to possible loss. The HEC will correct any arithmetic errors.
 12. The bidder should mention the installation, maintenance/training or any other charges/optional charges in financial bid deem necessary to complete the scope of work; as to be inclusive to the total cost for the proposal.
 13. Payments will be made to the Supplier in Pakistan Rupees.
 - a. All payments shall be made through Cross Cheque in Pak Rupees.
 - b. Taxes will be deducted at source as per government rules at the time of payment.
 - c. The bid security/earnest money of the successful bidder will be returned after the signing of the contract.

Supply and Installation Cost Table

As necessary for supply, installation, and achieving Operational Acceptance of the System, specify items in the Table below, modifying, deleting, or expanding the sample line items and sample table entries as needed. Costs MUST reflect prices and rates quoted in accordance with ITB Clauses 14 and 15 and other relevant clauses and sections.

(To be filled by the bidder as part of Financial Proposal)

Supply and Installation Cost Table for Services Requirement

Hiring of Services for “Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services”, (including Software Licenses/Services & Support):

Sr.	Description	Qty	Unit Cost of 1 st year without Tax	Unit cost of 1 st year with Tax	Unit Cost of 2 nd year without Tax	Unit cost of 2 nd year with Tax	Unit Cost of 3 rd year without Tax	Unit cost of 3 rd year with Tax	Total cost of 1 st + 2 nd + 3 rd Year without Tax	Total cost of 1 st + 2 nd + 3 rd Year with Tax
MANDATORY ITEMS										
Compute (Servers)										
1	E9000 Chassis (V5)	2								
2	CH 242 V5 Compute Node	8								
3	CH 121 V5 Compute Node	8								
4	2488H V5	24								
5	E9000 Chassis (V3)	3								
6	CH242 V3 DDR4 (Full Width Blade Servers)	16								
7	CH242V3 DDR4 (Full Width Blade Servers)	4								
Storage (SAN)										
8	OceanStor 5600 V5	2								
9	OceanStor 5500 V5	1								
10	SAN Switch SNS3664	6								
11	OceanStor Dorado3000 V3	1								
12	OceanStor 5300 V3	1								
13	OceanStor 5500 V3	1								
Network and Datacenter Infrastructure Equipment										
14	S 12708 Agile core Switch	3								
15	S 5320-28x-PWR-SL	2								
16	UPS, UPS5000-E	2								
17	UPS Battery Banks (Total 192	6								

	Batteries)									
18	Power distribution cabinet, PDU8000-0400A	1								
19	IDS 2000 Containment	1								
20	Racks 42U 600mm	11								
21	Racks 42U 800mm	1								
22	Precision cooling Netcool5000 35KW	2								
23	PDU2000 IP-32A	20								
24	PDU2000 3P-16A	4								
25	NetEco DCIM	1								
26	Power Room ACs (2 Ton each)	2								
OPTIONAL ITEMS (may be quoted on per year pricing schedule)										
27	NetEco DCIM (2017)	1								
28	PDU2000 IP-32A (2017)	1								
29	PDU2000 IP-32A (2017)	1								
30	UPS, UPS5000-E (2017)	2								
31	UPS Battery Banks (2017) (64 Batteries)	2								
Totals										
Total price in figures										
Total price in Words:										

The warranty and support services through dedicated resource (Business Hours) along with principal premium support and provisioning of the service level agreement as mentioned in relevant sections of the RFP are included in the above table and as per technical specifications section of the RFP.

IMPORTANT NOTE for Bidders: -

Sr. no. 27-31 are optional services items, So, these must be quoted on yearly basis and same may be separately presented in price schedule as well, apart from the mandatory items. Optional items may only be invoiced in the payment schedule for the additional services only if required by HEC. However, the quoted prices for the services may be considered locked till the period of warranty and services agreement, and will be provided if and only if demanded by HEC on yearly basis till the duration of main contract period. HEC may vary the optional items upon its requirements, depending upon the budget allocations and further necessary formalities/requirements. If these optional items are not required to HEC, the cost must be deducted from the yearly invoice(s) as per quoted pricing schedule in the above table, from the main invoice (including all taxes etc.).

Name of Bidder:	
Authorized Signature of Bidder:	

GRAND SUMMARY COST TABLE

Item	Price (PKR)
Supply and Installation/warranty/Licensing/Services Costs(including all taxes etc.) etc. 1 st year (50 % of total bid value)	
Recurrent Costs for 2 nd Year (Inclusive all taxes etc.) (25% of total bid value remaining for 2 nd year payable on post-year basis)	
Recurrent Costs for 3 rd Year (Inclusive all taxes etc.) (25% of total bid value remaining for 3 rd year payable on post-year basis)	
Grand Totals (incl. all taxes) for 3 years	
Grand Total (PKR) (incl. all taxes)	

The total bid value shall be considered in PKR only.

Name of Bidder:	
Authorized Signature of Bidder:	

Important Note: Optional Items pricing must be submitted with the mandatory pricing and shall be locked for the period of total contract agreement, otherwise the submitted bid may be rejected while considering it incomplete as per terms and conditions. However, Optional items order/quantity and services requirements period etc. may be as deemed by HEC only and only and respective pricing may be excluded/included accordingly from the main invoice as per HEC requirements.

Payment Schedule Form

Payment Schedule

Sr. No.	Attributes:	1st Year Payment value (50 % of total bid value) in PKR	2 nd Year Payment value (25 % of total bid value) in PKR	3rd Year Payment value (25 % of total bid value) in PKR
1.	Hiring of Services for "Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services" (as per details mentioned in subsequent sections/clauses)			
Total amount (Inclusive all taxes etc.)				

Name of Bidder:	
Authorized Signature of Bidder:	

Important Note:

- 1st year payment shall be made after the successful software/hardware, licenses, technical services, installation & configuration, equipment delivery and other support requirements fulfilment as per contract and following clauses.
- Further it is clarified that, breakdown for the total 1st year 50% of the total contract value, payment amount/invoice is as follow: 80% of the 1st year payment's amount shall be made on successful compliance of SLA terms for the solution delivery including software/licenses etc. (if any) subject to the satisfactory report duly signed by HEC representative (i.e. the solution as a whole at HEC premises/successful implementation/working verifications). While the remaining 20% payment for the 1st year total payment's amount shall be made on successful completion of the requisite period of 1st year warranty and services year and issuance of final acceptance certificates on completion of 1st year. While, the remaining years payments will be made on post yearly basis subject to the successful provisioning/ completion of support services/SLA as per agreement and in accordance to the payment schedule form.
- 2nd and 3rd year payments shall be made on post yearly basis as per required services and respective yearly invoices, after the successful completion of the services/support year along with duly signed respective year services/support report as per SLA terms and conditions and contract agreement.
- The effective date of the 2nd and 3rd year renewals mentioned at the table above will be calculated with respect to installation and commissioning date of the hardware delivery and software product and services deployment in HEC, as services requirement mentioned at the Supply and Installation Cost Table.

Manufacturer's Authorization

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

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

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

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

To: *[insert complete name of Procuring Agency]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of product]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* (hereinafter, the "Bidder") to submit a bid and subsequently negotiate and sign a Contract with you for resale of the following Products produced by us: We hereby extend our full guarantee and warranty in accordance with Clause 29 of the General Conditions of Contract, with respect to the Therapeutic Goods offered by the above firm.

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

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

Title: *[insert title]*

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

General Information Form

All individual firms and each partner of a Joint Venture that are bidding must complete the information in this form. Nationality information should be provided for all owners or Bidders that are partnerships or individually owned firms.

Where the Bidder proposes to use named Subcontractors for highly specialized components of the Information System, the following information should also be supplied for the Subcontractor(s).

1.	Name of firm	
2.	Head office address	
3.	Telephone	Contact
4.	Fax	Telex
5.	Place of incorporation / registration	Year of incorporation / registration

Nationality of beneficial owners along with shares percentage			
	Name	Nationality	Share Percentage
1.			
2.			
3.			
4.			
5.			
To be completed by all owners of partnerships or individually owned firms.			

Details of Contracts of Similar Nature and Complexity

Name of Bidder or partner of a Joint Venture
--

Use a separate sheet for each contract.

1.	Number of contracts	
	Name of contract	
	Country	
2.	Name of Procuring Agency	
3.	HEC address	
4.	Nature of Information Systems and special features relevant to the contract for which the Bidding Documents are issued	
5.	Contract role (check one) <input type="checkbox"/> Prime Supplier <input type="checkbox"/> Management Contractor <input type="checkbox"/> Subcontractor <input type="checkbox"/> Partner in a Joint Venture	
6.	Amount of the total contract/subcontract/partner share (in specified currencies at completion, or at date of award for current contracts) Currency Currency Currency	
7.	Equivalent amount PKR Total contract: _____; Subcontract: _____; Partner share: _____;	
8.	Date of award/completion	
9.	Contract was completed _____ months ahead/behind original schedule (if behind, provide explanation).	
10.	Contract was completed PKR _____ equivalent under/over original contract amount (if over, provide explanation).	
11.	Special contractual/technical requirements.	
12.	Indicate the approximate percent of total contract value (and PKR amount) of Information System undertaken by subcontract, if any, and the nature of such Information System.	

Form of Bid Security

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

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Procuring Agency to insert its name and address]*

No.: *[Procuring Agency to insert reference number for the Request for Bids]*

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

Date: *[Insert date of issue]*

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

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

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

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

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

- (a) has withdrawn its Bid during the period of Bid validity set forth in the Applicant's Letter of Bid ("the Bid Validity Period"), or any extension thereto provided by the

- Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to sign the contract agreement, or (ii) has failed to furnish the performance security, in accordance with the Instructions to Bidders (“ITB”) of the Beneficiary’s bidding document.

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

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

[Signature(s)]

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

Form of Bid-Securing Declaration

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

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

No.: *[number of bidding process]*

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

To: *[complete name of Procuring Agency]*

We, the undersigned, declare that:

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

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

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

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

Name of the Bidder* _____

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

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ day of _____, _____

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

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

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

Letter of Acceptance

[Letter head paper of the Procuring Agency]

[date]

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

This is to notify you that your Bid dated *[date]* for execution of the *[name of the Contract and identification number, as given in the Special Conditions of Contract]* for the Contract Price of the equivalent of *[amount in numbers and words] [name of currency]*, as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by us.

We hereby confirm *[insert the name of the Appointing Authority]*, to be the Appointing Authority, to appoint the Arbitrator in case of any arisen disputes.

You are hereby informed that after you have read and return the attached draft Contract the parties to the contract shall sign the vetted contract within fourteen (14) working days.

You are hereby required to furnish the Performance Guarantee/Security in the form and the amount stipulated in the Special Conditions of the Contract within a period of fourteen (14) days after the receipt of Letter of Acceptance.

Authorized Signature:

Name and Title of Signatory:

Name of Agency:

Attachment: Contract

Copy: Appointing Authority and Supplier

**3. SECTION VII: GENERAL CONDITIONS OF THE
CONTRACT**

GENERAL CONDITIONS OF THE CONTRACT (GCC)

1.	Definitions	1.1	The following words and expressions shall have the meanings hereby assigned to them:
			a) “Authority” means Public Procurement Regulatory Authority.
			b) The “Arbitrator” is the person appointed with mutual consent of both the parties, to resolve contractual disputes as provided for in the General Conditions of the Contract GCC Clause 45 hereunder.
			c) The “Contract” means the agreement entered into between the Procuring Agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
			d) The “Commencement Date” is the date when the Supplier shall commence execution of the contract as specified in the SCC .
			e) “Completion” means the fulfillment of the related services by the Supplier in accordance with the terms and conditions set forth in the contract.
			f) “Country of Origin” means the countries and territories eligible under the PPRA Rules 2004 and its corresponding Regulations as further elaborated in the SCC .
			g) The “Contract Price” is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.
			h) “Effective Contract date” is the date shown in the Certificate of Contract Commencement issued by the Procuring Agency upon fulfillment of the conditions precedent stipulated in GCC Clause 5 .
			i) “Procuring Agency” means the person named as Procuring Agency in the SCC and the legal successors in title to this person, procuring the Goods and related service, as named in SCC .
			j) “Related Services” means those services ancillary to the delivery of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, initial maintenance and other such obligations of the Supplier covered under the Contract.

			k) "GCC" means the General Conditions of Contract contained in this section.
			l) "Intended Delivery Date" is the date on which it is intended that the Supplier shall affect delivery as specified in the SCC .
			m) "Information System," also called "the System," means all the Information Technologies, Materials, and other Goods to be supplied, installed, integrated, and made operational (exclusive of the Supplier's Equipment), together with the Services to be carried out by the Supplier under the Contract
			n) "SCC" means the Special Conditions of Contract.
			o) "Supplier" means the individual private or government entity or a combination of the above whose Bid to perform the contract has been accepted by the Procuring Agency and is named as such in the Contract Agreement, and includes the legal successors or permitted assigns of the supplier and shall be named in the SCC .
			p) "Project Name" means the name of the project stated in SCC .
			q) "Day" means calendar day.
			r) "Eligible Country" means the countries and territories eligible for participation in accordance with the policies of the Federal Government.
			s) "End User" means the organization(s) where the goods will be used, as named in the SCC .
			t) "Origin" means the place where the Goods were mined, grown, or produced or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new produce results that is substantially different in basic characteristics or in purpose or utility from its components.
			u) "Force Majeure" means an unforeseeable event which is beyond reasonable control of either Party and which makes a Party's performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances. For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due

			to negligence or lack of care on the part of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances. and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.
			v) "Specification" means the Specification of the Goods and performance of incidental services in accordance with the relevant standards included in the Contract and any modification or addition made or approved by the Procuring Agency.
			w) The Supplier's Bid is the completed Bid documents submitted by the Supplier to the Procuring Agency.
2. Application and Interpretation	2.1	These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.	
	2.2	In interpreting these Conditions of Contract headings and marginal notes are used for convenience only and shall not affect their interpretations unless specifically stated; references to singular include the plural and vice versa; and masculine include the feminine. Words have their ordinary meaning under the language of the Contract unless specifically defined.	
	2.3	The documents forming the Contract shall be interpreted in the following order of priority: (1) Form of Contract, (2) Special Conditions of Contract, (3) General Conditions of Contract, (4) Letter of Acceptance, (5) Certificate of Contract Commencement (6) Specifications (7) Contractor's Bid, and (8) Any other document listed in the Special Conditions of Contract as forming part of the Contract.	

3.	Conditions Precedent	3.1	Having signed the Contract, it shall come into effect on the date on which the following conditions have been satisfied: - a) Submission of performance Security (or guarantee) in the form specified in the SCC . b) Furnishing of Advance Payment Unconditional Guarantee.
		3.2	If the Condition precedent stipulated on GCC Clause 3.1 is not met by the date specified in the SCC this contract shall not come into effect;
		3.3	If the Procuring Agency is satisfied that each of the conditions precedent in this contract has been satisfied (except to the extent waived by him, but subject to such conditions as he shall impose in respect of such waiver) he shall promptly issue to the supplier a certificate of Contract commencement, which shall confirm the start date.
4.	Governing Language	4.1	The Contract as all correspondence and documents relating to the contract exchanged by the Supplier and the Procuring Agency shall be written in the language specified in SCC . Subject to GCC Clause 3.1 , the version of the Contract written in the specified language shall govern its interpretation.
5.	Applicable Law and Effectiveness of the contract	5.1	The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC .
		5.2	The Contract shall be effective from the date specified in the SCC,
6.	Country of origin	6.1	The origin of goods and services making information systems may be distinct from the nationality of the Supplier.
7.	Scope of the Information System	7.1	Unless otherwise expressly limited in the SCC or Technical Requirements, the Supplier's obligations cover the provision of all Information Technologies, Materials and other Goods as well as the performance of all Services required for the design, development, and implementation (including procurement, quality assurance, assembly, associated site preparation, Delivery, Pre-commissioning, Installation, Testing, and Commissioning) of the System, in accordance with the plans, procedures, specifications, drawings, codes, and any other documents specified in the Contract and the Agreed and Finalized Project Plan.

		7.2	The Supplier shall, unless specifically excluded in the Contract, perform all such work and / or supply all such items and Materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Operational Acceptance of the System as if such work and / or items and Materials were expressly mentioned in the Contract.
		7.3	The Supplier's obligations (if any) to provide Goods and Services as implied by the Recurrent Cost tables of the Supplier's bid, such as consumables, spare parts, and technical services (e.g., maintenance, technical assistance, and operational support), are as specified in the SCC, including the relevant terms, characteristics, and timings
8. Supplier's Responsibilities		8.1	The Supplier shall conduct all activities with due care and diligence, in accordance with the Contract and with the skill and care expected of a competent provider of information technologies, information systems, support, maintenance, training, and other related services, or in accordance with best industry practices. In particular, the Supplier shall provide and employ only technical personnel who are skilled and experienced in their respective callings and supervisory staff who are competent to adequately supervise the work at hand.
		8.2	The Supplier confirms that it has entered into this Contract on the basis of a proper examination of the data relating to the System provided by the Procuring agency and on the basis of information that the Supplier could have obtained from a visual inspection of the site (if access to the site was available) and of other data readily available to the Supplier relating to the System as at the date Seven (07) days prior to bid submission. The Supplier acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility for properly estimating the difficulty or cost of successfully performing the Contract
		8.3	The Supplier shall be responsible for timely provision of all resources, information, and decision making under its control that are necessary to reach a mutually Agreed and Finalized Project Plan within the time schedule specified in the Implementation Schedule in the Technical Requirements Section. Failure to provide such resources, information, and decision making may constitute grounds for termination.

	8.4	The Supplier shall acquire in its name all permits, approvals, and/or licenses from all local, state, or national government authorities or public service undertakings in the Procuring agency's Country that are necessary for the performance of the Contract, including, without limitation, visas for the Supplier's and Subcontractor's personnel and entry permits for all imported Supplier's Equipment. The Supplier shall acquire all other permits, approvals, and/or licenses that are not the responsibility of the Procuring agency and that are necessary for the performance of the Contract.
	8.5	The Supplier shall comply with all laws in force in the Procuring agency's Country. The laws will include all national, provincial, municipal, or other laws that affect the performance of the Contract and are binding upon the Supplier. The Supplier shall indemnify and hold harmless the Procuring agency from and against any and all liabilities, damages, claims, fines, penalties, and expenses of whatever nature arising or resulting from the violation of such laws by the Supplier or its personnel, including the Subcontractors and their personnel, but without prejudice to GCC Clause 9.1. The Supplier shall not indemnify the Procuring agency to the extent that such liability, damage, claims, fines, penalties, and expenses were caused or contributed to by a fault of the Procuring agency.
	8.6	The Supplier shall, in all dealings with its labor and the labor of its Subcontractors currently employed on or connected with the Contract, pay due regard to all recognized festivals, official holidays, religious or other customs, and all local laws and regulations pertaining to the employment of labor.
	8.7	Any Information Technologies or other Goods and Services that will be incorporated in or be required for the System and other supplies shall have their Origin in a country that shall be an Eligible Country.
	8.8	The Supplier shall permit the Procuring Agency and/or persons appointed by the Procuring Agency to inspect the Supplier's offices and/or the accounts and records of the Supplier and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors.
	8.9	Other Supplier responsibilities, if any, are as stated in the SCC.
9. Procuring Agency's Responsibilities	9.1	The Procuring Agency shall ensure the accuracy of all information and/or data to be supplied by the Procuring agency to the Supplier, except when otherwise expressly stated in the Contract.

	9.2	The Procuring agency shall be responsible for timely provision of all resources, information, and decision making under its control that are necessary to reach an Agreed and Finalized Project Plan (pursuant to GCC Clause 17) within the time schedule specified in the Implementation Schedule in the Technical Requirements Section. Failure to provide such resources, information, and decision making may constitute grounds for Termination pursuant to GCC Clause 41.
	9.3	The Procuring agency shall be responsible for acquiring and providing legal and physical possession of the site and access to it, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract.
	9.4	If requested by the Supplier, the Procuring agency shall use its best endeavors to assist the Supplier in obtaining in a timely and expeditious manner all permits, approvals, and/or licenses necessary for the execution of the Contract from all local, state, or national government authorities or public service undertakings that such authorities or undertakings require the Supplier or Subcontractors or the personnel of the Supplier or Subcontractors, as the case may be, to obtain.
	9.5	In such cases where the responsibilities of specifying and acquiring or upgrading telecommunications and/or electric power services falls to the Supplier, as specified in the Technical Requirements, SCC, Agreed and Finalized Project Plan, or other parts of the Contract, the Procuring agency shall use its best endeavors to assist the Supplier in obtaining such services in a timely and expeditious manner.
	9.6	The Procuring agency shall be responsible for timely provision of all resources, access, and information necessary for the Installation and Operational Acceptance of the System (including, but not limited to, any required telecommunications or electric power services), as identified in the Agreed and Finalized Project Plan, except where provision of such items is explicitly identified in the Contract as being the responsibility of the Supplier. Delay by the Procuring agency may result in an appropriate extension of the Time for Operational Acceptance, at the Supplier's discretion

	9.7	Unless otherwise specified in the Contract or agreed upon by the Procuring agency and the Supplier, the Procuring agency shall provide sufficient, properly qualified operating and technical personnel, as required by the Supplier to properly carry out Delivery, Pre-commissioning, Installation, Commissioning, and Operational Acceptance, at or before the time specified in the Technical Requirements Section's Implementation Schedule and the Agreed and Finalized Project Plan.
	9.8	The Procuring agency will designate appropriate staff for the training courses to be given by the Supplier and shall make all appropriate logistical arrangements for such training as specified in the Technical Requirements, SCC, the Agreed and Finalized Project Plan, or other parts of the Contract.
	9.9	The Procuring agency assumes primary responsibility for the Operational Acceptance Test(s) for the System, in accordance with GCC Clause 26, and shall be responsible for the continued operation of the System after Operational Acceptance. However, this shall not limit in any way the Supplier's responsibilities after the date of Operational Acceptance otherwise specified in the Contract.
	9.10	The Procuring agency is responsible for performing and safely storing timely and regular backups of its data and Software in accordance with accepted data management principles, except where such responsibility is clearly assigned to the Supplier elsewhere in the Contract.
	9.11	Other Procuring agency responsibilities, if any, are as stated in the SCC.
10 Prices	10.1	The contract price shall be as specified in the Contract Agreement Subject to any additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
	10.2	Prices charged by the Supplier for Information System under the Contract shall not vary from the prices quoted by the Supplier in its Bid, with the exception of any price adjustments authorized in SCC or in the Procuring Agency's request for Bid Validity extension, as the case may be.
11 Payments	11.1	The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC /as per payment schedule etc.

	11.2	The Supplier's request(s) for payment shall be made to the Procuring Agency in writing or in electronic forms that provide record of the content of communication, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted, and upon fulfillment of other obligations stipulated in the Contract.
	11.3	Payments shall be made promptly by the Procuring Agency, within sixty (60) days after submission of an invoice or claim by the Supplier. If the Procuring Agency makes a late payment, the Supplier shall be paid interest on the late payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at the rate as specified in the SCC .
	11.4	The currency or currencies is PKR, in which payment is made to the Supplier under this Contract shall be specified in SCC subject to the following general principle: payment will be made in the currency or currencies in which the payment has been requested in the Supplier's Bid.
	11.5	All payments shall be made in the Pakistan Rupees as currency or currencies specified in the SCC pursuant to GCC Clause 11.4
12 Performance Guarantee	12.1	The proceeds of the Performance Security (or Guarantee) shall be payable to the Procuring Agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
	12.2	The Performance Guarantee shall be in one of the following forms:
	a)	A bank guarantee, an irrevocable letter of credit issued by a reputable bank, or in the form provided in the Bidding Documents or another form acceptable to the Procuring Agency; or
	b)	A cashier's or certified check.
	12.3	The performance guarantee will be discharged by the Procuring Agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless otherwise specified in SCC .
13 Taxes and Duties etc.	13.1	A foreign Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside Pakistan.
	13.2	If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in Pakistan the Procuring Agency shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

		13.3	A local Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until the supply of the information system to the Procuring Agency.
14	Copy Rights	14.1	The Intellectual Property Rights in all Standard Software and Standard Materials shall remain vested in the owner of such rights.
		14.2	The Procuring agency agrees to restrict use, copying, or duplication of the Standard Software and Standard Materials in accordance with GCC Clause 16, except those additional copies of Standard Materials may be made by the Procuring agency for use within the scope of the project of which the System is a part, in the event that the Supplier does not deliver copies within thirty (30) days from receipt of a request for such Standard Materials
		14.3	The Procuring agency's contractual rights to use the Standard Software or elements of the Standard Software may not be assigned, licensed, or otherwise transferred voluntarily except in accordance with the relevant license agreement or as may be otherwise specified in the SCC
		14.5	As applicable, the Procuring agency's and Supplier's rights and obligations with respect to Custom Software or elements of the Custom Software, including any license agreements, and with respect to Custom Materials or elements of the Custom Materials, are specified in the SCC. Subject to the SCC, the Intellectual Property Rights in all Custom Software and Custom Materials specified in the Contract Agreement (if any) shall, at the date of this Contract or on creation of the rights (if later than the date of this Contract), vest in the Procuring agency. The Supplier shall do and execute or arrange for the doing and executing of each necessary act, document, and thing that the Procuring agency may consider necessary or desirable to perfect the right, title, and interest of the Procuring agency in and to those rights. In respect of such Custom Software and Custom Materials, the Supplier shall ensure that the holder of a moral right in such an item does not assert it, and the Supplier shall, if requested to do so by the Procuring agency, and where permitted by applicable law, ensure that the holder of such a moral right waives it.
		14.6	The parties shall enter into such (if any) escrow arrangements in relation to the Source Code to some or all of the Software as are specified in the SCC and in accordance with the SCC

15	Agreements	15.1	<p>Except to the extent that the Intellectual Property Rights in the Software vest in the Procuring agency, the Supplier hereby grants to the Procuring agency license to access and use the Software, including all inventions, designs, and marks embodied in the Software.</p> <p>Such license to access and use the Software shall:</p> <p>(a) be:</p> <p>(i) nonexclusive.</p> <p>(ii) fully paid up and irrevocable (except that it shall terminate if the Contract terminates under GCC Clauses 41.</p> <p>(iii) valid throughout the territory of the Procuring agency's Country (or such other territory as specified in the SCC); and</p> <p>(iv) subject to additional restrictions (if any) as specified in the SCC.</p>
			<p>b) permit the Software to be:</p> <p>(i) used or copied for use on or with the computer(s) for which it was acquired (if specified in the Technical Requirements and/or the Supplier's bid), plus a backup computer(s) of the same or similar capacity, if the primary is(are) inoperative, and during a reasonable transitional period when use is being transferred between primary and backup.</p> <p>(ii) As specified in the SCC, used or copied for use on or transferred to a replacement computer(s), (and use on the original and replacement computer(s) may be simultaneous during a reasonable transitional period) provided that, if the Technical Requirements and/or the Supplier's bid specifies a class of computer to which the license is restricted and unless the Supplier agrees otherwise in writing, the replacement computer(s) is(are) within that class;</p> <p>(iii) if the nature of the System is such as to permit such access, accessed from other computers connected to the primary and/or backup computer(s) by means of a local or wide-area network or similar arrangement, and used on or copied for use on those other computers to the extent necessary to that access;</p>

			<p>(iv) reproduced for safekeeping or backup purposes.</p> <p>(v) customized, adapted, or combined with other computer software for use by the Procuring agency, provided that derivative software incorporating any substantial part of the delivered, restricted Software shall be subject to same restrictions as are set forth in this Contract.</p> <p>(vi) as specified in the SCC, disclosed to, and reproduced for use by, support service suppliers and their subcontractors, (and the Procuring agency may sublicense such persons to use and copy for use the Software) to the extent reasonably necessary to the performance of their support service contracts, subject to the same restrictions as are set forth in this Contract; and Disclosed to, and reproduced for use by, the Procuring agency and by such other persons as are specified in the SCC (and the Procuring agency may sublicense such persons to use and copy for use the Software), subject to the same restrictions as are set forth in this Contract.</p>
		15.2	The Standard Software may be subject to audit by the Supplier, in accordance with the terms specified in the SCC , to verify compliance with the above license agreements.
16	Confidential Information	16.1	Except if otherwise specified in the SCC, the "Receiving Party" (either the Procuring agency or the Supplier) shall keep confidential and shall not, without the written consent of the other party to this Contract ("the Disclosing Party"), divulge to any third party any documents, data, or other information of a confidential nature ("Confidential Information") connected with this Contract, and furnished directly or indirectly by the Disclosing Party prior to or during performance, or following termination, of this Contract.
		16.2	For the purposes of GCC Clause 16.1, the Supplier is also deemed to be the Receiving Party of Confidential Information generated by the Supplier itself in the course of the performance of its obligations under the Contract and relating to the businesses, finances, suppliers, employees, or other contacts of the Procuring agency or the Procuring agency's use of the System.

	16.3	<p>Notwithstanding GCC Clauses 16.1 and 16.2:</p> <p>(a) the Supplier may furnish to its Subcontractor Confidential Information of the Procuring agency to the extent reasonably required for the Subcontractor to perform its work under the Contract; and</p> <p>(b) the Procuring agency may furnish Confidential Information of the Supplier: (i) to its support service suppliers and their subcontractors to the extent reasonably required for them to perform their work under their support service contracts; and (ii) to its affiliates and subsidiaries, in which event the Receiving Party shall ensure that the person to whom it furnishes Confidential Information of the Disclosing Party is aware of and abides by the Receiving Party's obligations under this GCC Clause 16 as if that person were party to the Contract in place of the Receiving Party.</p>
	16.4	<p>The Procuring agency shall not, without the Supplier's prior written consent, use any Confidential Information received from the Supplier for any purpose other than the operation, maintenance and further development of the System. Similarly, the Supplier shall not, without the Procuring agency's prior written consent, use any Confidential Information received from the Procuring agency for any purpose other than those that are required for the performance of the Contract.</p>
	16.5	<p>The obligation of a party under GCC Clauses 16.1 through 16.4 above, however, shall not apply to that information which:</p> <p>(a) now or hereafter enters the public domain through no fault of the Receiving Party.</p> <p>(b) can be proven to have been possessed by the Receiving Party at the time of disclosure and that was not previously obtained, directly or indirectly, from the Disclosing Party.</p> <p>(c) otherwise lawfully becomes available to the Receiving Party from a third party that has no obligation of confidentiality.</p>
	16.6	<p>The above provisions of this GCC Clause 16 shall not in any way modify any undertaking of confidentiality given by either of the parties to this Contract prior to the date of the Contract in respect of the System or any part thereof.</p>
	16.7	<p>The provisions of this GCC Clause 16 shall survive the termination, for whatever reason, of the Contract for three (3) years or such longer period as may be specified in the SCC.</p>
17 Project Plan	17.1	<p>In close cooperation with the Procuring agency and based on the Preliminary Project Plan included in the Supplier's bid, the Supplier shall develop a Project Plan encompassing the activities specified in the Contract. The contents of the Project Plan shall be as specified in the SCC and/or Technical Requirements.</p>

		17.2	The Supplier shall formally present to the Procuring agency the Project Plan in accordance with the procedure specified in the SCC
		17.3	If required, the impact on the Implementation Schedule of modifications agreed during finalization of the Agreed and Finalized Project Plan shall be incorporated in the Contract by amendment, in accordance with GCC Clauses 35.
		17.4	The Supplier shall undertake to supply, install, test, and commission the System in accordance with the Agreed and Finalized Project Plan and the Contract
		17.5	The Progress and other reports specified in the SCC shall be prepared by the Supplier and submitted to the Procuring agency in the format and frequency specified in the Technical Requirements.
18	Sub-contracting	18.1	List of Approved Subcontractors to the Contract Agreement specifies critical items of supply or services and a list of Subcontractors for each item that are considered acceptable by the Procuring agency. If no Subcontractors are listed for an item, the Supplier shall prepare a list of Subcontractors it considers qualified and wishes to be added to the list for such items. The Supplier may from time to time propose additions to or deletions from any such list. The Supplier shall submit any such list or any modification to the list to the Procuring agency for its approval in sufficient time so as not to impede the progress of work on the System. The Procuring agency shall not withhold such approval unreasonably. Such approval by the Procuring agency of a Subcontractor(s) shall not relieve the Supplier from any of its obligations, duties, or responsibilities under the Contract.
		18.2	The Supplier may, at its discretion, select and employ Subcontractors for such critical items from those Subcontractors listed pursuant to GCC Clause 18.1. If the Supplier wishes to employ a Subcontractor not so listed, or subcontract an item not so listed, it must seek the Procuring agency's prior approval under GCC Clause 18.3.

		18.3	For items for which pre-approved Subcontractor lists have not been specified in Appendix to the Contract Agreement, the Supplier may employ such Subcontractors as it may select, provided: (i) the Supplier notifies the Procuring agency in writing at least twenty-eight (28) days prior to the proposed mobilization date for such Subcontractor; and (ii) by the end of this period either the Procuring agency has granted its approval in writing or fails to respond. The Supplier shall not engage any Subcontractor to which the Procuring agency has objected in writing prior to the end of the notice period. The absence of a written objection by the Procuring agency during the above specified period shall constitute formal acceptance of the proposed Subcontractor. Except to the extent that it permits the deemed approval of the Procuring agency of Subcontractors not listed in the Contract Agreement, nothing in this Clause, however, shall limit the rights and obligations of either the Procuring agency or Supplier as they are specified in GCC Clauses 18.1 and 18.2, in the SCC, or in Appendix of the Contract Agreement.
	19 Procurement and Delivery	19.1	Subject to related Procuring agency's responsibilities pursuant to GCC Clause 9, the Supplier shall manufacture or procure and transport all the Information Technologies, Materials, and other Goods in an expeditious and orderly manner to the Project Site
		19.2	Delivery of the Information Technologies, Materials, and other Goods shall be made by the Supplier in accordance with the Technical Requirements
		19.3	Early or partial deliveries require the explicit written consent of the Procuring agency, which consent shall not be unreasonably withheld.
	20 Transportation	20.1	The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during shipment. The packing, marking, and documentation within and outside the packages shall comply strictly with the Procuring agency's instructions to the Supplier.
		20.2	The Supplier will bear responsibility for and cost of transport to the Project Sites in accordance with the terms and conditions used in the specification of prices in the Price Schedules, including the terms and conditions of the associated Incoterms.
		20.3	Unless otherwise specified in the SCC, the Supplier shall be free to use transportation through carriers registered in any eligible country and to obtain insurance from any eligible source country.

21	Documents	21.1	<p>Unless otherwise specified in the SCC, the Supplier will provide the Procuring agency with shipping and other documents, as specified below.</p> <p>(i) For Goods supplied from outside the Procuring agency's Country:</p> <p>Upon shipment, the Supplier shall notify the Procuring agency, and the insurance company contracted by the Supplier to provide cargo insurance by telex, cable, facsimile, electronic mail, or EDI with the full details of the shipment. The Supplier shall promptly send the following documents to the Procuring agency by mail or courier, as appropriate, with a copy to the cargo insurance company:</p> <ul style="list-style-type: none"> (a) two copies of the Supplier's invoice showing the description of the Goods, quantity, unit price, and total amount. (b) usual transportation documents. (c) insurance certificate. (d) certificate(s) of origin; and (e) estimated time and point of arrival in the Procuring agency's Country and at the site. <p>(ii) For Goods supplied locally (i.e., from within the Procuring agency's country):</p> <p>Upon shipment, the Supplier shall notify the Procuring agency by telex, cable, facsimile, electronic mail, or EDI with the full details of the shipment. The Supplier shall promptly send the following documents to the Procuring agency by mail or courier, as appropriate:</p> <ul style="list-style-type: none"> (a) two copies of the Supplier's invoice showing the goods' description, quantity, unit price, and total amount. (b) delivery note, railway receipt, or truck receipt. (c) certificate of insurance. (d) certificate(s) of origin; and (e) estimated time of arrival at the site.
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		<p>(iii) Customs Clearance</p> <p>(a) The Procuring agency will bear responsibility for, and cost of, customs clearance into the Procuring agency's country in accordance the particular Incoterm(s) used for Goods supplied from outside the Procuring agency's country in the Price Schedules referred to by Article 2 of the Contract Agreement.</p> <p>(b) At the request of the Procuring agency, the Supplier will make available a representative or agent during the process of customs clearance in the Procuring agency's country for goods supplied from outside the Procuring agency's country. In the event of delays in customs clearance that are not the fault of the Supplier:</p> <p>(c) the Supplier shall be entitled to an extension in the Time for Achieving Operational Acceptance, pursuant to GCC Clause 26; the Contract Price shall be adjusted to compensate the Supplier for any additional storage charges that the Supplier may incur as a result of the delay.</p>
22	Product Updates	<p>22.1 At any point during performance of the Contract, should technological advances be introduced by the Supplier for Information Technologies originally offered by the Supplier in its bid and still to be delivered, the Supplier shall be obligated to offer to the Procuring agency the latest versions of the available Information Technologies having equal or better performance or functionality at the same or lesser unit prices.</p>
		<p>22.2 At any point during performance of the Contract, for Information Technologies still to be delivered, the Supplier will also pass on to the Procuring agency any cost reductions and additional and/or improved support and facilities that it offers to other clients of the Supplier in the Procuring agency's Country.</p>
		<p>During performance of the Contract, the Supplier shall offer to the Procuring agency all new versions, releases, and updates of Standard Software, as well as related documentation and technical support services, within thirty (30) days of their availability from the Supplier to other clients of the Supplier in the Procuring agency's Country, and no later than twelve (12) months after they are released in the country of origin. In no case will the prices for these Software exceed those quoted by the Supplier in the Recurrent Costs tables in its bid.</p>

23	Inspections and Tests	23.1 The Procuring Agency or its representative shall have the right to inspect and /or to test the components of the system to confirm their conformity to the Contract specifications at no extra cost to the Procuring Agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring Agency shall notify the Supplier in writing or in electronic forms that provide record of the content of communication, in a timely manner, of the identity of any representatives retained for these purposes.
		23.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Agency.
		23.3 Should any inspected or tested component fail to conform to the Specifications, the Procuring Agency may reject the component, and the Supplier shall replace the rejected component to meet specification requirements free of cost to the Procuring Agency.
		23.4 The Procuring Agency's right to inspect, test and, where necessary, reject component after arrival in the Procuring Agency's country shall in no way be limited or eared by reason of the component having previously been inspected, tested, and passed by the Procuring Agency or its representative prior to the shipment from the country of origin.
		23.5 The Procuring Agency may require the Supplier to carry out any inspection and/or test not specified in the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such inspection and/or test shall be added to the Contract Price. Further, if such inspection and/or test impedes the progress of work on the System and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Time for Achieving Operational Acceptance and the other obligations so affected
		23.6 If any dispute shall arise between the parties in connection with or caused by an inspection and/or with regard to any component to be incorporated in the System that cannot be settled amicably between the parties within a reasonable period of time, either party may invoke the process, starting with referral of the matter to the Adjudicator in case an Adjudicator is included and named in the Contract Agreement.

24	Installation of the System	24.1	As soon as the System, or any Subsystem, has, in the opinion of the Supplier, been delivered, pre-commissioned, and made ready for Commissioning and Operational Acceptance Testing in accordance with the Technical Requirements, the SCC and the Agreed and Finalized Project Plan, the Supplier shall so notify the Procuring agency in writing
		24.2	The Project Manager shall, within fourteen (14) days after receipt of the Supplier's notice under GCC Clause 24.1, either issue an Installation Certificate in the form specified in the Sample Forms Section in the Bidding Documents, stating that the System, or major component or Subsystem (if Acceptance by major component or Subsystem is specified pursuant to the SCC for GCC Clause 26.1), has achieved Installation by the date of the Supplier's notice under GCC Clause 24.1, or notify the Supplier in writing of any defects and/or deficiencies, including, but not limited to, defects or deficiencies in the interoperability or integration of the various components and/or Subsystems making up the System. The Supplier shall use all reasonable endeavors to promptly remedy any defect and/or deficiencies that the Project Manager has notified the Supplier of. The Supplier shall then promptly carry out retesting of the System or Subsystem and, when in the Supplier's opinion the System or Subsystem is ready for Commissioning and Operational Acceptance Testing, notify the Procuring agency in writing, in accordance with GCC Clause 24.1. The procedure set out in this GCC Clause 24.2 shall be repeated, as necessary, until an Installation Certificate is issued.
		24.3	If the Project Manager fails to issue the Installation Certificate and fails to inform the Supplier of any defects and/or deficiencies within fourteen (14) days after receipt of the Supplier's notice under GCC Clause 24.1, or if the Procuring agency puts the System or a Subsystem into production operation, then the System (or Subsystem) shall be deemed to have achieved successful Installation as of the date of the Supplier's notice or repeated notice, or when the Procuring agency put the System into production operation, as the case may be.
25	Commissioning	25.1	Commissioning of the System (or Subsystem if specified pursuant to the SCC for GCC Clause 26.1) shall be commenced by the Supplier: <ul style="list-style-type: none"> (a) immediately after the Installation Certificate is issued by the Project Manager, pursuant to GCC Clause 24.2; or (b) as otherwise specified in the Technical Requirement or the Agreed and Finalized Project Plan; or (c) immediately after Installation is deemed to have occurred, under GCC Clause 24.3.

		25.2	The Procuring agency shall supply the operating and technical personnel, and all materials and information reasonably required to enable the Supplier to carry out its obligations with respect to Commissioning. Production use of the System or Subsystem(s) shall not commence prior to the start of formal Operational Acceptance Testing.
26 Operational Acceptance Tests		26.1	The Operational Acceptance Tests (and repeats of such tests) shall be the primary responsibility of the Procuring agency (in accordance with GCC Clause 9.9), but shall be conducted with the full cooperation of the Supplier during Commissioning of the System (or major components or Subsystem[s] if specified in the SCC and supported by the Technical Requirements), to ascertain whether the System (or major component or Subsystem[s]) conforms to the Technical Requirements and meets the standard of performance quoted in the Supplier's bid, including, but not restricted to, the functional and technical performance requirements. The Operational Acceptance Tests during Commissioning will be conducted as specified in the SCC, the Technical Requirements and/or the Agreed and Finalized Project Plan. At the Procuring agency's discretion, Operational Acceptance Tests may also be performed on replacement Goods, upgrades and new version releases, and Goods that are added or field- modified after Operational Acceptance of the System.
		26.2	If for reasons attributable to the Procuring agency, the Operational Acceptance Test of the System (or Subsystem[s] or major components, pursuant to the SCC for GCC Clause 26.1) cannot be successfully completed within the period specified in the SCC, from the date of Installation or any other period agreed upon in writing by the Procuring agency and the Supplier, the Supplier shall be deemed to have fulfilled its obligations with respect to the technical and functional aspects of the Technical Specifications, SCC and/or the Agreed and Finalized Project Plan.

27	Operational Acceptance	<p>27.1 Subject to GCC Clause 27.4 (Partial Acceptance) below, Operational Acceptance shall occur in respect of the System, when:</p> <ul style="list-style-type: none"> a) the Operational Acceptance Tests, as specified in the Technical Requirements, and/or SCC and/or the Agreed and Finalized Project Plan have been successfully completed; or b) the Operational Acceptance Tests have not been successfully completed or have not been carried out for reasons that are attributable to the Procuring agency within the period from the date of Installation or any other agreed-upon period as specified in GCC Clause 27.2.2 above; or c) the Procuring agency has put the System into production or use for sixty (60) consecutive days. If the System is put into production or use in this manner, the Supplier shall notify the Procuring agency and document such use.
		<p>27.2 At any time after any of the events set out in GCC Clause 27.1 have occurred, the Supplier may give a notice to the Project Manager requesting the issue of an Operational Acceptance Certificate.</p>
		<p>27.3 After consultation with the Procuring agency, and within fourteen (14) days after receipt of the Supplier's notice, the Project Manager shall:</p> <ul style="list-style-type: none"> (a) issue an Operational Acceptance Certificate; or (b) notify the Supplier in writing of any defect or deficiencies or other reason for the failure of the Operational Acceptance Tests; or (c) issue the Operational Acceptance Certificate, if the situation covered by GCC Clause 27.1 (b) arises.
		<p>27.4 The Supplier shall use all reasonable endeavors to promptly remedy any defect and/or deficiencies and/or other reasons for the failure of the Operational Acceptance Test that the Project Manager has notified the Supplier of. Once such remedies have been made by the Supplier, the Supplier shall notify the Procuring agency, and the Procuring agency, with the full cooperation of the Supplier, shall use all reasonable endeavors to promptly carry out retesting of the System or Subsystem. Upon the successful conclusion of the Operational Acceptance Tests, the Supplier shall notify the Procuring agency of its request for Operational Acceptance Certification, in accordance with GCC Clause 27.3. The Procuring agency shall then issue to the Supplier the Operational Acceptance Certification in accordance with GCC Clause 27.3 (a), or shall notify the Supplier of further defects, deficiencies, or other reasons for the failure of the Operational Acceptance Test. The procedure set out in this GCC Clause 27.4 shall be repeated, as necessary, until an Operational Acceptance Certificate is issued.</p>

	27.5	<p>If the System or Subsystem fails to pass the Operational Acceptance Test(s) in accordance with GCC Clause 26.1, then either:</p> <p>(a) the Procuring agency may consider terminating the Contract, pursuant to GCC Clause 41.</p> <p style="text-align: center;">or</p> <p>(b) if the failure to achieve Operational Acceptance within the specified time period is a result of the failure of the Procuring agency to fulfill its obligations under the Contract, then the Supplier shall be deemed to have fulfilled its obligations with respect to the relevant technical and functional aspects of the Contract.</p>
	27.6	<p>If within fourteen (14) days after receipt of the Supplier's notice the Project Manager fails to issue the Operational Acceptance Certificate or fails to inform the Supplier in writing of the justifiable reasons why the Project Manager has not issued the Operational Acceptance Certificate, the System or Subsystem shall be deemed to have been accepted as of the date of the Supplier's said notice.</p>
28 Partial Acceptance	28.1	<p>If so specified in the SCC for GCC Clause 26.1, Installation and Commissioning shall be carried out individually for each identified major component or Subsystem(s) of the System. In this event, the provisions in the Contract relating to Installation and Commissioning, including the Operational Acceptance Test, shall apply to each such major component or Subsystem individually, and Operational Acceptance Certificate(s) shall be issued accordingly for each such major component or Subsystem of the System, subject to the limitations contained in GCC Clause 28.2</p>
	28.2	<p>The issuance of Operational Acceptance Certificates for individual major components or Subsystems pursuant to GCC Clause 28.1 shall not relieve the Supplier of its obligation to obtain an Operational Acceptance Certificate for the System as an integrated whole (if so specified in the SCC for GCC 27.1) once all major components and Subsystems have been supplied, installed, tested, and commissioned</p>
	28.3	<p>In the case of minor components for the System that by their nature do not require Commissioning or an Operational Acceptance Test (e.g., minor fittings, furnishings or site works, etc.), the Project Manager shall issue an Operational Acceptance Certificate within fourteen (14) days after the fittings and/or furnishings have been delivered and/or installed or the site works have been completed. The Supplier shall, however, use all reasonable endeavors to promptly remedy any defects or deficiencies in such minor components detected by the Procuring agency or Supplier.</p>

29	Warranty/ Defect Liability Period	<p>29.1 The Supplier warrants that the system, including all Information Technologies, Materials and other goods supplied and services provided under the Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied and services provided under this Contract shall have no defect, arising from design, materials, or workmanship that prevent the System and/or any of its components from fulfilling the Technical Requirements (except when the design and/or material is required by the Procuring Agency, specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Information System in the conditions prevailing in Pakistan. Exceptions and/or limitations, if any, to this warranty with respect to Software (or categories of Software), shall be as specified in the SCC. Commercial warranty provisions of products supplied under the Contract shall apply to the extent that they do not conflict with the provisions of this Contract.</p>
		<p>29.2 This warranty Period shall commence from the date of Operational Acceptance of the System (or of any major component or Subsystem for which separate Operational Acceptance is provided for in the Contract) and shall remain valid for a period specified in the SCC.</p>
		<p>29.3 The Procuring Agency shall promptly notify the Supplier in writing or in electronic forms that provide record of the content of communication of any claims arising under this warranty.</p>
		<p>29.4 Upon receipt of such notice, the Supplier shall promptly or within the period specified in the SCC, in consultation and agreement with the Procuring agency regarding appropriate remedying of the defects, and at its sole cost, repair, replace, or otherwise make good (as the Supplier shall, at its discretion, determine) such defect as well as any damage to the System caused by such defect. Any defective Information Technologies or other Goods that have been replaced by the Supplier shall remain the property of the Supplier</p>
		<p>29.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the Procuring Agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Agency may have against the Supplier under the Contract.</p>

30	Intellectual Property Rights Indemnity	30.1	<p>The Supplier shall indemnify and hold harmless the Procuring agency and its employees and officers from and against any and all losses, liabilities, and costs (including losses, liabilities, and costs incurred in defending a claim alleging such a liability), that the Procuring agency or its employees or officers may suffer as a result of any infringement or alleged infringement of any Intellectual Property Rights by reason of:</p> <ul style="list-style-type: none"> (a) installation of the System by the Supplier or the use of the System, including the Materials, in the country where the site is located. (b) copying of the Software and Materials provided the Supplier in accordance with the Agreement; and (c) sale of the products produced by the System in any country, except to the extent that such losses, liabilities, and costs arise as a result of the Procuring agency's breach of GCC Clause 30.2.
		30.2	<p>Such indemnity shall not cover any use of the System, including the Materials, other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the System, or any products of the System produced thereby in association or combination with any other goods or services not supplied by the Supplier, where the infringement arises because of such association or combination and not because of use of the System in its own right.</p>
		30.3	<p>Such indemnities shall also not apply if any claim of infringement:</p> <ul style="list-style-type: none"> (a) is asserted by a parent, subsidiary, or affiliate of the Procuring agency's organization. (b) is a direct result of a design mandated by the Procuring agency's Technical Requirements and the possibility of such infringement was duly noted in the Supplier's Bid; or (c) results from the alteration of the System, including the Materials, by the Procuring agency or any persons other than the Supplier or a person authorized by the Supplier
31	Insurance	31.1	<p>The Information System supplied/provided under the Contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery in the manner specified in the SCC.</p>

<p>32 Limitation of Liability</p>	<p>32.1</p>	<p>Provided the following does not exclude or limit any liabilities of either party in ways not permitted by applicable law:</p> <ul style="list-style-type: none"> (a) the Supplier shall not be liable to the Procuring agency, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Procuring agency; and (b) the aggregate liability of the Supplier to the Procuring agency, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to any obligation of the Supplier to indemnify the Procuring agency with respect to intellectual property rights infringement
<p>33 Related Services</p>	<p>33.1</p>	<p>The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:</p> <ul style="list-style-type: none"> a) Performance or supervision of on-site assembly, Installation Commissioning and/or start-up of the supplied Goods; b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods; c) Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract e) Training of the Procuring Agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the Goods supplied and Services Provided.
	<p>33.2</p>	<p>Prices charged by the Supplier for related services, if not included in the Contract, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p>
<p>34 Change Orders</p>	<p>34.1</p>	<p>The Procuring Agency may at any time, by a written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:</p> <ul style="list-style-type: none"> a) Drawings, designs, or specifications; b) The method of shipment or packing; c) The place of delivery; and/or

		d) The Services to be provided by the Supplier.
		34.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring Agency change order.
		34.3 Prices to be charged by the supplier for any related services that might be needed but which were not included in the Contract shall be agreed upon in advance by the Parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.
35 Contract Amendments	35.1	Subject to GCC Clause 34 , no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.
36 Assignments	36.1	Neither the Procuring Agency nor the Supplier shall assign, in whole or in part, obligations under this Contract, except with the prior written consent of the other party.
37 Sub-contracts	37.1	The Supplier shall consult the Procuring Agency in the event of subcontracting under this contract if not already specified in the Bid. Subcontracting shall not alter the Supplier's obligations.
38 Delays in the Supplier's Performance	38.1	Delivery of the Goods and performance of Services making Information system shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements.
	38.2	If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring Agency in writing or in electronic forms that provide record of the content of communication of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring Agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

		38.3	Except as provided under GCC Clause 41 , a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 39 , unless an extension of time is agreed upon pursuant to GCC Clause 38.2 without the application of liquidated damages.
39	Liquidated Damages	39.1	Subject to GCC Clause 41 , if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the performance security (or guarantee) specified in SCC . Once the said maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to GCC Clause 40 .
40	Termination for Default	40.1	The Procuring Agency or the Supplier, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the concerned party may terminate the Contract if the other party causes a fundamental breach of the Contract.
		40.2	Fundamental breaches of Contract shall include, but shall not be limited to the following:
		a)	the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency or
		b)	the Supplier fails to perform any other obligation(s) under the Contract;
		c)	Supplier's failure to submit performance security (or guarantee) within the time stipulated in the SCC ;
		d)	the supplier has abandoned or repudiated the contract.
		e)	the Procuring Agency or the Supplier is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
		f)	a payment is not paid by the Procuring Agency to the Supplier after 84 days from the due date for payment.
		g)	the Procuring Agency gives Notice that goods delivered with a defect is a fundamental breach of Contract and the Supplier fails to correct it within a reasonable period of time determined by the Procuring Agency; and

		h) if the Procuring Agency determines, based on reasonable evidence, that the Supplier has engaged in corrupt, coercive, collusive, obstructive or fraudulent practices, in competing for or in executing the Contract.
	40.3	For the purpose of this clause:
		“Corrupt and Fraudulent Practice” means the practices as described in Rule-2 (1) (f) of Public Procurement Rules-2004.
	40.4	In the event the Procuring Agency terminates the Contract in whole or in part, pursuant to GCC Clause 26.1 , the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.
41 Termination for Force Majeure	41.1	Notwithstanding the provisions of GCC Clauses 38, 39, and 40 , neither Party shall have any liability or be deemed to be in breach of the Contract for any delay nor is other failure in performance of its obligations under the Contract, if such delay or failure is a result of an event of Force Majeure. For purpose of this clause, “Force Majeure” means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of a Party, and which makes a Party’s performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent.

		41.2	If a Party (hereinafter referred to as “the Affected Party”) is or will be prevented from performing its substantial obligation under the contract by Force Majeure, it shall give a Notice to the other Party giving full particulars of the event and circumstance of Force Majeure in writing or in electronic forms that provide record of the content of communication of such condition and the cause thereof. Unless otherwise directed by the Procuring Agency in writing or in electronic forms that provide record of the content of communication, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
42 Termination for Insolvency		42.1	The Procuring Agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Agency.
43 Termination for Convenience		43.1	The Procuring Agency, by written notice sent to the Supplier, may terminate the contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring Agency’s convenience, the Contract is terminated, and the date upon which such termination becomes effective.
		43.2	The Systems that are complete and ready for shipment within thirty (30) days after the Supplier’s receipt of notice of termination shall be accepted by the Procuring Agency at the Contract terms and price. For the remaining system, the Procuring Agency may elect:
		a)	To have a ny portion completed and delivered at the Contract terms and prices; and / or
		b)	To cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.
44 Transfer of Ownership		44.1	With the exception of Software and Materials, the ownership of the Information Technologies and other Goods shall be transferred to the Procuring agency at the time of Delivery or otherwise under terms that may be agreed upon and specified in the Contract Agreement.
		44.2	Ownership and the terms of usage of the Software and Materials supplied under the Contract shall be governed by GCC Clause 14 (Copyright) and any elaboration in the Technical Requirements

		44.3	Ownership of the Supplier's Equipment used by the Supplier and its Subcontractors in connection with the Contract shall remain with the Supplier or its Subcontractors.
45 Disputes Resolution		45.1	In the event of any dispute arising out of this contract, either party shall issue a notice of dispute to settle the dispute amicably. The parties hereto shall, within twenty-eight (28) days from the notice date, use their best efforts to settle the dispute amicably through mutual consultations and negotiation. Any unsolved dispute may be referred by either party to an arbitrator that shall be appointed by mutual consent of the both parties.
		45.2	After the dispute has been referred to the arbitrator, within 30 days, or within such other period as may be proposed by the Parties, the Arbitrator shall give its decision. The rendered decision shall be binding to the Parties.
46 Procedure for Disputes Resolution		46.1	The arbitration shall be conducted in accordance with the arbitration procedure published by the Institution named and, in the place, shown in the SCC .
		46.2	The rate of the Arbitrator's fee and administrative costs of arbitration shall be borne equally by the Parties. The rates and costs shall be in accordance with the rules of the Appointing Authority. In conducting arbitration to its finality each party shall bear its incurred costs and expenses.
		46.3	The arbitration shall be conducted in accordance with the arbitration procedure published by the institution named and, in the place, shown in the SCC .
47 Replacement of Arbitrator		47.1	Should the Arbitrator resign or die, or should the Procuring Agency and the Supplier agree that the Arbitrator is not functioning in accordance with the provisions of the contract, a new Arbitrator shall be appointed by mutual consent of the both parties.
48 Notices		48.1	Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or in electronic forms that provide record of the content of communication and confirmed in writing or in electronic forms that provide record of the content of communication to the other party's address specified in SCC .
		48.2	A notice shall be effective when delivered or on the notice's effective date, whichever is later.

**4. SECTION VIII: SPECIAL CONDITIONS OF THE
CONTRACT (SCC)**

Special Conditions of Contract (SCC)

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

SCC Clause Number	GCC Clause Number	Amendments of, and Supplements to, Clauses in the GCC
Definitions (GCC 1,2,3)		
1.	1.1	The Procuring Agency is: Higher Education Commission, Sector H9, Islamabad
2.	2.1	The Supplier is:
3.	3.1	The title of the subject procurement or The Project is: <i>Hiring of Services for "Post Warranty Support & Maintenance of Data Center Compute Hardware and services"</i> .
Governing Language (GCC 4)		
4.	4.1	The Governing Language shall be English
Applicable Law (GCC 5)		
5.	5.1	The Applicable Law shall be: The Laws of Islamic Republic of Pakistan
	5.2	The Contract shall be effective from the date of Signing of the Contract Agreement.
Country of Origin (GCC 6)		
6.	6.1	Country of Origin is Pakistan <Specify for each item>
Scope of the System (GCC 7)		
7.	7.1	<ol style="list-style-type: none"> 1. The Scope of the System is, Hiring of Services for "Post Warranty Support & Maintenance of Data Center infrastructure Hardware and services". 2. Which includes: 3. HEC Datacenters in Islamabad, Lahore and Karachi, are hosting the ICT services for its internal departments, Universities and for students' facilitation in services like, degree attestation and equivalence, scholarship portals, SAP financial services, and education testing services and many more. 4. For the smooth functioning of HEC ICT services, it is mandatory to perform the HEC Data Center operations in timely and proactive manner. For this, Higher Education Commission (HEC) wants renewal of warranty services SLA for datacenter infrastructure (hardware/software) and its operations i.e. compute, storage, precision cooling and power units etc. installed in Islamabad Data Centers for next three years as per details mentioned in SECTION V: SCHEDULE OF REQUIREMENTS, TECHNICAL SPECIFICATION & REQUIREMENT.

		<p>5. The successful bidder will provide warrantee and support services for datacenter infrastructure through dedicated resource(s) as well as principal premium support for min. 3 years from the date of service delivery as per details mentioned in services requirement sections.</p> <p>6. The Selected Bidder shall be responsible for Smooth operation of Data Centers at Islamabad Operations 24/7/365 within warranty services period by deputing necessary workforce / resident engineers.</p> <p>7. The selected bidder shall be responsible for installation of the servers, storages and network equipment cater under warrantee services as per HEC requirement and also will be responsible for configuration of the operating system, clustering service and any high availability failover services.</p> <p>8. The Selected Bidder shall be responsible for the supply, installation, configuration, integration, testing and commissioning of replaced faulty equipment in HEC Islamabad Data Centers as per requirements of HEC.</p> <p>9. The selected bidder shall be responsible for it end to end security configurations server, storages and network equipment.</p> <p>10. The selected bidder shall be responsible for configuration of failover cluster / high availabilities services and its configuration related to virtual machine services.</p> <p>11. The selected bidder shall be responsible for the provisioning of extended warranties, services and support.</p> <p>12. The selected bidder shall be responsible for at-least 3 years of Services and Support, in addition to the hardware/software solution components warranty and licensing services, which is likely to be extendable as per requirements of HEC.</p> <p>13. The selected bidder will provide onsite training to the HEC nominated resources & system admins/engineers for enablement, training, and tackling running issues for effective utilization of the deployed equipment.</p> <p>14. The bidders are required to quote the total cost of Supply and installation Cost Table mentioned at Section VI, standard forms, price schedule forms as mentioned at Section V, Schedule of Requirements.</p>
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Supplier Responsibilities (GCC 8)		
8.	8.1	The Supplier shall have the following additional responsibilities: Refer BDS and Section V of this Bid
HEC's Responsibilities (GCC 9)		
9.	9.1	The HEC shall have the following additional responsibilities: <i>None</i>
Price (GCC 10)		
10.	10.1	Prices shall be adjusted in accordance with provisions in the Attachment to SCC. -Refer Price Schedule Forms
Payment (GCC 11)		

11.	11.1	<p>The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:</p> <ol style="list-style-type: none"> i. No Advance shall be issued. ii. Upon signing of contract Successful bidder will submit the Performance Bank Guarantee equal to (10%) ten percent of value for the first year Payment. For subsequent years and till the completion of project, Selected Bidder may provide a fresh 10% Bank Guarantee or extend/ renew the existing one which should be equivalent to 10% of the respective year invoice. The final 10% Bank Guarantee will be released after successful completion of the project. In case, Performance Bank Guarantee is not extended/ renewed, deduction shall be made from each invoice as (Retained Money), for any deductions as applicable under the contract, and will be released after successful completion of project duration and adjustments. iii. All payments shall be made as per Payment Schedule Form (at Section VI: Standard Forms) and other relevant forms/terms & conditions. According to which, total project cost may be divided into three years as per price schedule given in this RFP document. iv. Upon acceptance of invoice, payments shall be made within thirty days from the date of submission of each invoice as per payment schedule, subject to the availability of funds etc. v. All prices must be provided in PKR including all applicable taxes.
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Performance Guarantee (GCC 12)

12.	12.1	The amount of performance guarantee, as a percentage of the Contract Price, shall be 10% of the Yearly Price of the Contract Price.
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Taxes and Duties (GCC 13)

13.	13.1	<i>Taxes will be deducted at source as per government rules at the time of payment. Other details are given in Taxes/payments terms sections.</i>
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Copy Rights (GCC 14)

14.	14.1	The HEC may assign, license, or otherwise voluntarily transfer its contractual rights to use the Standard Software/hardware or elements of the Standard Software, without the Supplier's prior written consent, under its required circumstances.
	14.2	The Procuring agencies and Supplier's rights and obligations with respect to Custom Software or elements of the Custom Software are as follows. The Procuring agencies and Supplier's rights and obligations with respect to Custom Materials or elements of the Custom Materials are as follows [state: "not applicable" if Custom Materials are not part of the System; otherwise, specify items, rights, obligations, restrictions, exceptions, and provisos]. "Not applicable"
	14.3	<i>"No software escrow contract is required for the execution of the Contract;"</i>

Software License Validity (GCC 15)

15.	15.1	The Standard Software/Hardware license and firmware shall be valid "throughout the territory of the HEC's Country; and as per HEC validity requirements"
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	15.2	The HEC will have a non-exclusive, non-transferable software/Hardware license to use, and HEC will get a non-exclusive, non-transferable, non-sublicensable right to use and access the Software/Hardware as described in Section V.
Confidential Information (GCC 16)		
16.	16.1	<i>"There are no modifications to the confidentiality terms expressed in this document" and confidentiality measures must be carried out.</i>
Project Plan (GCC 17)		
17.	17.1	The Project Plan shall address the following subject: (a) Project Organization and Management Plan; (b) Delivery and Installation Plan Support services plan in line with the Section V. (Refer Section V, Schedule of Requirements, Technical Specification & Requirement, for making a thorough Project Plan.
	17.2	The Project Plan shall be made part of the bid and effective from the effective date of the Contract. The HEC within 7 working days adequately ensure that the proposed program of work, proposed methods, and/or proposed Information Technologies satisfy the Technical Requirements. The Supplier shall, within 5 days of receipt of such notification for modification in PIP, correct the Project Plan and resubmit it to the HEC. This PIP shall be free from any non-conformities. The HEC shall provide written confirmation to the supplier on acceptance of the PIP and approved Project Plan ("the Agreed and Finalized Project Plan") shall be contractually binding on the HEC and the Supplier.
	17.3	Refer Section V: Schedule of Requirements, Technical Specification & Requirement, Technical Requirement, C) Technical Specification, 2) Minimum requirements for Service Level Agreement, Bid Data Sheet(BDS), ITB No. 1.1 and Invitation to Bids (ITB), 3 (e) for reporting to be done by the supplier under this agreement.
Sub-Contracting (GCC 18)		
18.	18.1	<i>N/A, "There are no Special Conditions of Contract applicable to GCC 18".</i>
Transportation (GCC 19)		
19.	19.1	The Supplier <i>"shall"</i> be free to use transportation through carriers registered in any eligible country and <i>shall"</i> obtain insurance from any eligible source country (if required).
Documents (GCC 21)		
20.	20.1	The Supplier shall provide to the HEC documents as specified in the GCC along with other documents mentioned in sections of the bid and/ or other documentation requirements as necessary and appropriate.
Products Upgrade (GCC 22)		

21.	21.1	The Supplier shall provide the HEC <i>with all new versions, releases, and updates to all hardware during the Warranty Period, for free, as specified in the GCC, and as mentioned at</i> Section V: Schedule of Requirements, Technical Specification & Requirement, Technical Requirement, C) Technical Specification, 2) Minimum requirements for Service Level Agreement.
Inspections and Tests (GCC 23)		
22.	22.1	<i>On-site implementation and testing, including installation of software/hardware solution as per requirements of the RFP, and configuration of all other tasks as per HEC requirements and technical specifications.</i>
Installations (GCC 24)		
23.	23.1	<i>On-site implementation and testing, including installation of software/hardware solution as per requirements of the RFP, and configuration of all other tasks as per HEC requirements and technical specifications.</i>
Operational Acceptance Test (GCC 26)		
24.	24.1	Operational Acceptance Testing shall fulfill 100% compliance with the Technical Requirement at Section V: Schedule of Requirements, Technical Specification & Requirement, C) Technical Specification.
Defect Liability (GCC 29)		
25.	25.1	For Software, exceptions or limitations to the Supplier's warranty obligations shall be as follows: <i>"None"</i>
	25.2	The Supplier warrants that the following items have been released to the market for the following specific minimum time periods: <i>"No specific minimum time requirements are established for this Contract other than that the Information Technologies must have been previously released to the market"</i>
	25.3	The Warranty Period: Refer Section VI, Standard Forms, Price Schedule Forms, Note of Supply and Installation Cost Table and Note of Recurrent Cost Sub-Table.
	25.4	Refer Section V: Schedule of Requirements, Technical Specification & Requirement, Technical Requirement, C) Technical Specification, 2) Minimum requirements for Service Level Agreement.
Intellectual Property Rights Indemnity (GCC 30)		
26.	26.1	<i>necessary and appropriate clauses as mentioned in terms and conditions.</i>
Insurance (GCC Clause 31)		
27.	27.1	The Insurance shall cover the period from <i>[insert: beginning date, relative to the Effective Date of the Contract]</i> until <i>[insert: expiration date, relative to the Effective Date of the Contract or its completion]</i> .
Related Services (GCC Clause 33)		
28.	28.1	Related services to be provided are: <i>[Selected services covered under GCC Clause 33 and/or other should be specified with the desired features. The price quoted in the Bid price or agreed with the selected Supplier shall be included in the Contract Price.]</i>

Change Orders (GCC 34)																	
29.	29.1	<i>The request for clarification and the response shall be in writing/email. However, no change in the price or substance of the bid shall be sought, offered, or permitted after bid submission. There are no Special Conditions of Contract applicable to GCC Clause 34.</i>															
Assignment (GCC 36)																	
30.	30.1	Contract can be assigned: No															
Liquidated Damages (GCC Clause 39)																	
31.	31.1	<p>i. In the event of non-fulfillment of the commissioning as per the project implementation plan, liquidated damages at the rate of 1% for each week on the approved value of order as per prices mentioned in the Price Schedule Forms. The amount of the Liquidated Damages will be automatically deducted from the Bills submitted by the Selected Bidder. If the delivery is not completed after the lapse of duration according to project plan, the HEC may make alternative arrangements, and the cost incurred by the HEC for doing the same will be deducted from the Selected Bidder.</p> <p>ii. Liquidated damages shall also be applicable against the delays in the services offered under the service level agreement as per RFP.</p> <p>SLA violation(s) Penalties Matrix are as follows:</p> <table border="1" data-bbox="560 1099 1394 1339"> <thead> <tr> <th>Level</th> <th>Event</th> <th>% Of yearly Invoiced amount per violation</th> </tr> </thead> <tbody> <tr> <td>L1</td> <td>Severe (Priority Level 1)</td> <td>7%</td> </tr> <tr> <td>L2</td> <td>Critical (Priority Level 2)</td> <td>5%</td> </tr> <tr> <td>L3</td> <td>High (Priority Level 3)</td> <td>3%</td> </tr> <tr> <td>L4</td> <td>Minor (Priority Level 4)</td> <td>1%</td> </tr> </tbody> </table> <p>iii. If the required work is not up to HEC satisfaction, HEC reserves the right to cancel Contract and get the remaining work done by other party at the risk and cost of the Selected Bidder.</p>	Level	Event	% Of yearly Invoiced amount per violation	L1	Severe (Priority Level 1)	7%	L2	Critical (Priority Level 2)	5%	L3	High (Priority Level 3)	3%	L4	Minor (Priority Level 4)	1%
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L3	High (Priority Level 3)	3%															
L4	Minor (Priority Level 4)	1%															
Procedure for Dispute Resolution (GCC Clause 45)																	
32.	32.1	<p>Dispute Resolution</p> <p>In case of any dispute between the two parties of any matter arising out of after signing the contract agreement, the case shall be referred to Executive Director, HEC whose decision shall be final and binding on both parties.</p>															
Notices (GCC Clause 48)																	
33.	33.1	<p>HEC's address for notice purposes: In charge (IT), Higher Education Commission, Sector H-9, Islamabad.</p> <p>Supplier's address for notice purposes:</p>															

5. SECTION IX: CONTRACT FORMS

Form of Contract

THIS AGREEMENT made the _____ day of _____ 20____ between *[name and address of HEC]* of Pakistan (hereinafter called "the HEC") of the one part and *[name of Supplier]* of *[city and country of Supplier]* (hereinafter called "the Supplier") of the other part:

WHEREAS the HEC invited Bids for certain goods and related services, viz., *[briefdescription of goods and services]* and has accepted a Bid by the Supplier for the supply of those goods and related services in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract 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 Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below: -
 - (a) This form of Contract.
 - (b) the Form of Bid and the Price Schedule submitted by the Bidder.
 - (c) the Schedule of Requirements.
 - (d) the Technical Specifications.
 - (e) the Special Conditions of Contract.
 - (f) the General Conditions of the Contract.
 - (g) Standard Forms
 - (h) the HEC's Letter of Acceptance; and
 - (i) *[add here: any other documents]*
3. In consideration of the payments to be made by the HEC to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the HEC to provide the goods and related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The HEC hereby covenants to pay the Supplier in consideration of the provision of the goods and related services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

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

Witness to the signatures of the HEC:

.....

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

Witness to the signatures of the Supplier:

Performance Security (or guarantee) Form

To: *[name of Procuring Agency]*

WHEREAS *[name of Supplier]* (hereinafter called "the Supplier") has undertaken, in pursuance of Contract No. *[Reference number of the contract]* dated *[insert date]* to delivery *[description of goods and services]* (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, 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 Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]



Integrity Pact

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

Contract Number: _____
Contract Value: _____
Contract Title: _____

Dated: _____

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

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

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

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

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

[Buyer]

[Seller/Supplier]