

COMPETITIVE & LIVABLE CITY OF KARACHI INVESTMENT DEPARTMENT GOVERNMENT OF SINDH



REQUEST FOR PROPOSALS

ESTABLISHMENT OF CO-LOCATION / CLOUD SERVICES OF IT INFRASTRUCTURE AT PRIMARY AND BACKUP SITE FOR S-BOSS, CLICK

RFP No: PK-SID-523961-GO-RFB (Single Stage – Two Envelope) (Without Prequalification)

Project Implementation Unit (PIU)
Competitive and Livable City of Karachi (CLICK)
Investment Department, Government of the Sindh

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PART 1 – REQUEST for PROPOSALS PROCEDURES

Section I - Instructions to Proposer (ITP)

This Section provides relevant information to help Proposers prepare their Proposals. It applies a two-envelope procurement process with application of Rated Criteria. It is based on a one-envelope procurement process. Information is also provided on the submission, opening, and evaluation of Proposals and on the award of Contracts. **Section I contains provisions that are to be used without modification.**

Section II - Proposal Data Sheet (PDS)

This Section consists of provisions that are specific to each procurement and that supplement the information or requirements included in Section I, Instructions to Proposers.

Section III - Evaluation and Qualification Criteria

This Section specifies which methodology will be used to determine the Most Advantageous Proposal.

Two alternative Sections III, Evaluation and Qualification Criteria are provided to address the possibility of having or not having prequalification of Proposers.

Section IV - Proposal Forms

This Section contains the forms to be completed by the Proposer and submitted as part of the Proposal.

Section V - Eligible Countries

This Section contains information regarding eligible countries.

Section VI - Fraud and Corruption

This section includes the Fraud and Corruption provisions that apply to this procurement process.

PART 2 – PURCHASER'S REQUIREMENTS

Section VII - Requirements for the Information System

This Section contains Technical Requirements, Implementation Schedule, and System Inventory Tables, as well as Background and Informational Materials

PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS

Section VIII - General Conditions of Contract (GCC)

This Section contains the general clauses to be applied in all contracts. The text of the clauses in this Section shall not be modified.

Section IX - Special Conditions of Contract (SCC)

This Section contains the Special Conditions of Contract (SCC). The contents of this Section modify or supplement the General Conditions and shall be prepared by the Purchaser.

Section X - Contractual Forms

This Section contains the Letter of Acceptance, Contract Agreement and other relevant forms.



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RFP No: PK-SID-523961-GO-RFB (Single Stage – Two Envelope) (Without Prequalification)

Purchaser: Project Implementation Unit, Competitive and Livable City of Karachi (CLICK),

Project: Competitive and Livable City of Karachi (CLICK)

Contract Title: Establishment of Co-location / Cloud Services of IT Infrastructure at Primary and

Backup Site for S-BOSS, CLICK Country: Islamic Republic of Pakistan

Loan No. Credit No. P161402 RFP No: PK-SID-523961-GO-RFB Issued on: **11th December**, **2025**

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PART 1-REQUEST FOR PROPOSALS PROCEDURES

SECTION I - INSTRUCTIONS TO PROPOSERS (ITP)

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Section I - Instructions to Proposers

A. GENERAL

1. Scope of Proposal

- 1.1. The Purchaser, as indicated in the PDS, or its duly authorized Purchasing Agent if so specified in the PDS (interchangeably referred to as "the Purchaser" issues this request for proposals document for the supply and installation of the Information System as specified in Section VII, Purchaser's Requirements. The name, identification and number of lots (contracts) of this RFP are specified in the PDS.
- 1.2. Unless otherwise stated, throughout this request for proposals document definitions and interpretations shall be as prescribed in the Section VIII, General Conditions of Contract.

Throughout this request for proposals document:

- (a) the term "in writing" means communicated in written form (e.g. by mail, e-mail, fax, including if specified in the PDS, distributed or received through the electronic-procurement system used by the Purchaser) with proof of receipt;
- (b) if the context so requires, "singular" means "plural" and vice versa; and
- (c) "Day" means calendar day, unless otherwise specified as "Business Day". A Business Day is any day that is an official working day of the Borrower. It excludes the Borrower's official public holidays.
- (d) "ES" means environmental and social (including Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH));
- (e) "Sexual Exploitation and Abuse" "(SEA)" means the following:

Sexual Exploitation is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;

Sexual Abuse is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions.

(f) "Sexual Harassment" "(SH)" is defined as unwelcome sexual advances, requests for sexual favors, and other verbal

or physical conduct of a sexual nature by the Supplier's Personnel with other Supplier's Personnel or Purchaser's Personnel.

- (g) "Supplier's Personnel" is as defined in GCC Clause 1.1; and
- (h) "Purchaser's Personnel" is as defined in GCC Clause 1.1.

A non-exhaustive list of (i) behaviors which constitute SEA and (i) behaviors which constitute SH is attached to the Code of Conduct form in Section IV

2. Source of Funds

- 2.1. The Borrower or Recipient (hereinafter called "Borrower") indicated in the PDS has applied for or received financing (hereinafter called "funds") from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called "the Bank") in an amount specified in the PDS toward the project named in the PDS. The Borrower intends to apply a portion of the funds to eligible payments under the contract(s) for which this request for proposals document is issued.
- 2.2. Payments by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the Loan (or other financing) Agreement between the Borrower and the Bank (hereinafter called the Loan Agreement), and will be subject in all respects to the terms and conditions of that Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of equipment, materials or any other goods, if such payment or import is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the funds.

3. Fraud and Corruption

- 3.1. The Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Section VI.
- 3.2. In further pursuance of this policy, Proposers shall permit and shall cause their agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit the Bank to inspect all accounts, records and other documents relating to any initial selection process,

4.1.

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

4. Eligible Proposers

- A Proposer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITP 4.6, or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the procurement process and, in the event the JV is awarded the Contract, during contract execution. Unless specified in the PDS, there is no limit on the number of members in a JV.
- 4.2. A Proposer shall not have a conflict of interest. Any Proposer found to have a conflict of interest shall be disqualified. A Proposer may be considered to have a conflict of interest for the purpose of this procurement process, if the Proposer:
 - (a) directly or indirectly controls, is controlled by or is under common control with another Proposer; or
 - (b) receives or has received any direct or indirect subsidy from another Proposer; or
 - (c) has the same legal representative as another Proposer; or
 - (d) has a relationship with another Proposer, directly or through common third parties, that puts it in a position to influence the Proposal of another Proposer, or influence the decisions of the Purchaser regarding this procurement process; or
 - (e) any of its affiliates participates as a consultant in the preparation of the design or technical specifications of the Information System that are the subject of the Proposal; or
 - (f) or any of its affiliates has been hired (or is proposed to be hired) by the Purchaser or Borrower as Project Manager for the Contract implementation; or
 - (g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the

- project specified in the PDS ITP 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
- (h) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the request for proposals document or specifications of the Contract, and/or the Proposal evaluation process of such Contract; or (ii) would be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the procurement process and execution of the Contract.
- 4.3. A firm that is a Proposer (either individually or as a JV member) shall not participate as a Proposer or as JV member in more than one Proposal except for permitted alternative Proposals. Such participation shall result in the disqualification of all Proposals in which the firm is involved. However, this does not limit the participation of a Proposer as subcontractor in another Proposal or of a firm as a subcontractor in more than one Proposal.
- 4.4. A Proposer may have the nationality of any country, subject to the restrictions pursuant to ITP 4.8. A Proposer shall be deemed to have the nationality of a country if the Proposer is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or sub-consultants for any part of the Contract including related Services.

- 4.5. A Proposer that has been sanctioned by the Bank, pursuant to the Bank's Anti-Corruption Guidelines, and in accordance with its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework as described in Section VI paragraph 2.2 d., shall be ineligible to be initially selected for, prequalified for, bid for, propose for, or be awarded a Bankfinanced contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address specified in the PDS.
- 4.6. Proposers that are state-owned enterprises or institutions in the Purchaser's Country may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to the Bank, that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not under supervision of the Purchaser.
- 4.7. A Proposer shall not be under suspension from bidding or submitting proposals by the Purchaser as the result of the operation of a Bid–Securing Declaration or Proposal-Securing Declaration.
- 4.8. Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.
- 4.9. This request for proposal process is open for all eligible Proposers, unless otherwise specified in ITP 15.2.
- 4.10. A Proposer shall provide such documentary evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.
- 4.11. A firm that is under a sanction of debarment by the Borrower from being awarded a contract is eligible to participate in this procurement, unless the Bank, at the Borrower's request, is satisfied that the debarment; (a) relates to fraud or corruption,

and (b) followed a judicial or administrative proceeding that afforded the firm adequate due process.

5. Eligible Goods and Services

- 5.1. The Information Systems to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries.
- 5.2. For the purposes of this request for proposals document, the term "Information System" means all:
 - (a) the required information technologies, including all information processing and communications-related hardware, software, supplies, and consumable items that the Supplier is required to design, supply and install under the Contract, plus all associated documentation, and all other materials and goods to be designed, supplied, installed, integrated, and made operational; and
 - (b) the related software development, transportation, insurance, installation, customization, integration, commissioning, training, technical support, maintenance, repair, and other services necessary for proper operation of the Information System to be provided by the selected Proposer and as specified in the Contract.
- 5.3. For purposes of ITP 5.1 above, "origin" means the place where the goods and services making the 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 and major assembly or integration of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

B. CONTENTS OF THE REQUEST FOR PROPOSALS DOCUMENT

6. Sections of the Request for Proposals Document 6.1. The request for proposals document consists of Parts 1, 2, and 3, which include all the sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITP 8:

PART 1 - Request for Proposals Procedures

Section I - Instructions to Proposers (ITP)

Section II - Proposal Data Sheet (PDS)

Section III - Evaluation and Qualification Criteria

Section IV - Proposal Forms

Section V - Eligible Countries

Section VI - Fraud and Corruption

PART 2 - Purchaser's Requirements

Section VII - Requirements of the IS, including:

- Technical Requirements
- Implementation Schedule
- System Inventory Tables
- Background and Informational Materials

PART 3 - Contract

Section VIII - General Conditions of Contract

Section IX -Special Conditions of Contract

Section X - Contract Forms

- 6.2. The Specific Procurement Notice Request for Proposals (RFP) issued by the Purchaser is not part of this request for proposals document.
- 6.3. Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre-Proposal meeting (if any), or Addenda to the request for proposals document in accordance with ITP 8. In case of any contradiction, documents obtained directly from the Purchaser shall prevail.
- 6.4. The Proposer is expected to examine all instructions, forms, terms, and specifications in the request for proposals document and to furnish with its Proposal all information or documentation as is required by the request for proposals document.

- 7. Clarification of 7.1.

 Request for
 Proposals
 Document, Site
 Visit, PreProposal
 Meeting
- A Proposer requiring any clarification of the request for proposals document shall contact the Purchaser in writing at the Purchaser's address specified in the PDS or raise its enquiries during the pre-Proposal meeting if provided for in accordance with ITP 7.4. The Purchaser will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of Proposals within a period specified in the PDS. The Purchaser's shall forward copies of its response to all Proposers who have acquired the request for proposals document in accordance with ITP 6.3, including a description of the inquiry but without identifying its source. If so specified in the PDS, the Purchaser shall also promptly publish its response at the web page identified in the PDS. Should the Purchaser deem it necessary to amend the request for proposals document as a result of a request for clarification, it shall do so following the procedure under ITP 8 and ITP 23.2.
- 7.2. The Proposer may wish to visit and examine the site where the Information System is to be installed and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Proposal and entering into a contract. The costs of visiting the site shall be at the Proposer's own expense.
- 7.3. The Proposer and any of its personnel or agents will be granted permission by the Purchaser to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Proposer, its personnel, and agents will release and indemnify the Purchaser and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 7.4. The Proposer's designated representative is invited to attend a pre-Proposal meeting and/or a site visit, if provided for in the PDS. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 7.5. The Proposer is requested, as far as possible, to submit any questions in writing, to reach the Purchaser not later than one week before the meeting.
- 7.6. Minutes of the pre-Proposal meeting, including the text of the questions raised without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Proposers who have acquired the request for proposals document in accordance with ITP 6.3. Any

modification to the request for proposals document that may become necessary as a result of the pre-Proposal meeting shall be made by the Purchaser exclusively through the issue of an Addendum pursuant to ITP 8 and not through the minutes of the pre-Proposal meeting.

7.7. Nonattendance at the pre-Proposal meeting will not be a cause for disqualification of a Proposer.

8. Amendment of Request for Proposals Document

- 8.1. At any time prior to the deadline for submission of Proposals, the Purchaser may amend the request for proposals document by issuing addenda.
- 8.2. Any addendum issued shall be part of the request for proposals document and shall be communicated in writing to all who have obtained the request for proposals document from the Purchaser in accordance with ITP 6.3. The Purchaser shall also promptly publish the addendum on the Purchaser's web page in accordance with ITP 7.1.
- 8.3. To give prospective Proposers reasonable time in which to take an addendum into account in preparing their Proposals, the Purchaser may, at its discretion, extend the deadline for the submission of Proposals, pursuant to ITP 23.2.

C. PREPARATION OF PROPOSALS

9. Cost of Proposals

9.1. The Proposer shall bear all costs associated with the preparation and submission of its Proposal, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Request for Proposals process.

10. Language of Proposal

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

11. Documents Comprising the Proposal

11.1. The Proposal shall comprise two Parts, namely the Technical Part and the Financial Part. These two Parts shall be submitted simultaneously in two separate sealed envelopes (two-envelope procurement process). One envelope shall contain only information relating to the Technical Part and the other, only information relating to the Financial Part. These two envelopes

- shall be enclosed in a separate sealed outer envelope marked "Original Proposal'.
- 11.2. The Technical Part shall contain the following:
 - (a) **Letter of Proposal**-Technical Part, prepared in accordance with ITP 12;
 - (b) **Proposal Security or Proposal-Securing Declaration** in accordance with ITP 20;
 - (c) **Alternative Proposal** Technical Part: if permissible, in accordance with ITP 13, the Technical Part of any Alternative Proposal;
 - (d) **Authorization:** written confirmation authorizing the signatory of the Proposal to commit the Proposer, in accordance with ITP 21.3;
 - (e) **Eligibility of Information System:** documentary evidence established in accordance with ITP 14.1 that the Information System offered by the Proposer in its Proposal or in any alternative Proposal, if permitted, are eligible;
 - (f) **Proposer's Eligibility and qualifications:** documentary evidence in accordance with ITP 15 establishing the Proposer's eligibility and qualifications to perform the contract if its Proposal is accepted;
 - (g) **Conformity:** documentary evidence established in accordance with ITP 16 that the Information System offered by the Proposer conform to the **request for proposals** document;
 - (h) **Subcontractors:** list of subcontractors, in accordance with ITP 16.4;
 - (i) **Intellectual Property**: a list of: Intellectual Property as defined in GCC Clause 15;
 - (i) all Software included in the Proposal, assigning each item to one of the software categories defined in GCC Clause 1.1 (c):
 - a. System, General Purpose, and Application Software; or
 - b. Standard and Custom Software;
 - (ii) all Custom Materials, as defined in GCC Clause 1.1 (c), included in the Proposal;

All Materials not identified as Custom Materials shall be deemed Standard Materials, as defined in GCC Clause 1.1 (c);

Re-assignments among the Software and Materials categories, if necessary, will be made during the implementation of the Contract according to GCC Clause 39 (Changes to the Information System); and

(j) any other document required in the PDS.

11.3. The Financial Part shall contain the following:

- (a) Letter of Proposal Financial Part: prepared in accordance with ITP 12 and ITP 17;
- (b) Schedule: Price Schedules completed in accordance with ITP 12 and ITP 17;
- (c) Alternative Proposal Financial Part: if permissible in accordance with ITP 13, the Financial Part of any Alternative Proposal; and
- (d) any other document required in the PDS.
- 11.4. The Technical Part shall not include any information related to the Proposal price. Where material financial information related to the Proposal price is contained in the Technical Part the Proposal shall be declared non-responsive.
- 11.5. In addition to the requirements under ITP 11.2, Proposals submitted by a JV shall include in the Technical Part a copy of the Joint Venture Agreement entered into by all members indicating at least the parts of the Information System to be executed by the respective members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Proposal shall be signed by all members and submitted with the Proposal, together with a copy of the proposed Agreement indicating at least the parts of the Information System to be executed by the respective members.
- 11.6. The Proposer shall furnish in the Letter of Proposal Financial Part information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this procurement process.
- 12. Letters of Proposal and Price Schedules
- 12.1. The Letter of Proposal Technical Part, Letter of Proposal-Financial Part and Price Schedules shall be prepared using the relevant forms furnished in Section IV, Proposal Forms. The forms must be completed without any alterations to the text, and no

substitutes shall be accepted except as provided under ITP 21.3. All blank spaces shall be filled in with the information requested.

13. Alternative Proposals

- 13.1. The PDS indicates whether alternative Proposals are allowed. If they are allowed, the PDS will also indicate whether they are permitted in accordance with ITP 13.3, or invited in accordance with ITP 13.2 and/or ITP 13.4.
- 13.2. When alternatives to the Time Schedule are explicitly invited, a statement to that effect will be included in the PDS, and the method of evaluating different time schedules will be described in Section III, Evaluation and Qualification Criteria.
- 13.3. Except as provided under ITP 13.4 below, Proposers wishing to offer technical alternatives to the Purchaser's requirements as described in the request for proposals document must also provide:

 (i) a price at which they are prepared to offer an Information System meeting the Purchaser's requirements; and (ii) all information necessary for a complete evaluation of the alternatives by the Purchaser, including drawings, design calculations, technical specifications, breakdown of prices, and proposed installation methodology and other relevant details. Only the technical alternatives, if any, of the Proposer with the Most Advantageous Proposal conforming to the basic technical requirements shall be considered by the Purchaser.
- 13.4. When Proposers are invited in the PDS to submit alternative technical solutions for specified parts of the system, such parts shall be described in Section VII, Purchaser's Requirements. Technical alternatives that comply with the performance and technical criteria specified for the Information System shall be considered by the Purchaser on their own merits, pursuant to ITP 32.
- 14. Documents
 Establishing
 the Eligibility
 of the
 Information
 System
- 14.1. To establish the eligibility of the Information System in accordance with ITP 5, Proposers shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Proposal Forms.
- 15. Documents
 Establishing
 the Eligibility
 and
 Qualifications
 of the Proposer
- 15.1. To establish its eligibility and qualifications to perform the Contract in accordance with Section III, Evaluation and Qualification Criteria, the Proposer shall provide the information requested in the corresponding information sheets included in Section IV, Proposal Forms.
- 15.2. In the event that prequalification of potential Proposers has been undertaken as stated in the PDS, only Proposals from prequalified

Proposers shall be considered for award of Contract. These qualified Proposers should submit with their Proposals any information updating their original prequalification applications or, alternatively, confirm in their Proposals that the originally submitted prequalification information remains essentially correct as of the date of Proposal submission.

- Any change in the structure or formation of a Proposer after being 15.3. prequalified and invited to submit Proposals, if applicable, (including, in the case of a JV, any change in the structure or formation of any member and also including any change in any specialized subcontractor whose qualifications were considered to prequalify the Applicant) shall be subject to the written approval of the Purchaser prior to the deadline for submission of Proposals. Such approval shall be denied if (i) a Proposer proposes to associate with a disqualified Proposer or in case of a disqualified ioint venture, any of its members; (ii) as a consequence of the change, the Proposer no longer substantially meets the qualification criteria; or (iii) in the opinion of the Purchaser, the change may result in a substantial reduction in competition. Any such change should be submitted to the Purchaser not later than fourteen (14) days after the date of the notice for RFP sent to the prequalified Proposers.
- 16. Documents
 Establishing
 Conformity of
 the
 Information
 System
- 16.1. Pursuant to ITP 11.2 (g), the Proposer shall furnish, as part of its Proposal, documents establishing the conformity to the request for proposals documents of the Information System that the Proposer proposes to design, supply and install under the Contract.
- 16.2. The documentary evidence of conformity of the Information System to the request for proposals documents including:
 - (a) Preliminary Project Plan describing, among other things, the methods by which the Proposer will carry out its overall management and coordination responsibilities if awarded the Contract, and the human and other resources the Proposer proposes to use. The Preliminary Project Plan must also address any other topics specified in the PDS. In addition, the Preliminary Project Plan should state the Proposer's assessment of what it expects the Purchaser and any other party involved in the implementation of the Information System to provide during implementation and how the Proposer proposes to coordinate the activities of all involved parties;
 - (b) written confirmation that the Proposer accepts responsibility for the successful integration and inter-operability of all

- components of the Information System as required by the request for proposals documents;
- (c) an item-by-item commentary on the Purchaser's Technical Requirements, demonstrating the substantial responsiveness of the Information System offered to those requirements. In demonstrating responsiveness, the Proposer should use the Technical Responsiveness Checklist (or Checklist Format) in the Sample Proposal Forms (Section IV). The commentary shall include explicit cross-references to the relevant pages in the supporting materials included in the Proposal. Whenever a discrepancy arises between the item-by-item commentary and any catalogs, technical specifications, or other preprinted materials submitted with the Proposal, the item-by-item commentary shall prevail;
- (d) support material (e.g., product literature, white papers, narrative descriptions of technologies and/or technical approaches), as required and appropriate; and
- (e) any separate and enforceable contract(s) for Recurrent Cost items which the PDS ITP 17.2 requires Proposers to propose.
- 16.3. References to brand names or model numbers or national or proprietary standards designated by the Purchaser in the request for proposals documents are intended to be descriptive and not restrictive. Except as specified in the PDS for specific items or standards, the Proposer may substitute alternative brand/model names or standards in its Proposal, provided that it demonstrates to the Purchaser's satisfaction that the use of the substitute(s) will result in the Information System being able to perform substantially equivalent to or better than that specified in the Technical Requirements.
- 16.4. For major items of the Information System as listed by the Purchaser in Section III, Evaluation and Qualification Criteria, which the Proposer intends to purchase or subcontract, the Proposer shall give details of the name and nationality of the proposed subcontractors, including manufacturers, for each of those items. In addition, the Proposer shall include in its Proposal information establishing compliance with the requirements specified by the Purchaser for these items. Quoted rates and prices will be deemed to apply to whichever subcontractor is appointed, and no adjustment of the rates and prices will be permitted.
- 16.5. The Proposer shall be responsible for ensuring that any subcontractor proposed complies with the requirements of ITP 4, and that any goods or services to be provided by the subcontractor comply with the requirements of ITP 5 and ITP 16.1.

17. Proposal Prices 17.1.

- 17.1. All Goods and Services identified in the Supply and Installation Cost Sub-Tables in System Inventory Tables in Section VII, and all other Goods and Services proposed by the Proposer to fulfill the requirements of the Information System, must be priced separately and summarized in the corresponding cost tables in the Sample Proposal Forms (Section IV), in accordance with the instructions provided in the tables and in the manner specified below.
- 17.2. Unless otherwise specified in the PDS, the Proposer must also propose Recurrent Cost Items specified in the Technical Requirements, Recurrent Cost Sub-Table of the System Inventory Tables in Section VII (if any). These must be priced separately and summarized in the corresponding cost tables in the Sample Proposal Forms (Section IV), in accordance with the instructions provided in the tables and in the manner specified below:
 - (a) if specified **in the PDS**, the Proposer must also propose separate enforceable contracts for the Recurrent Cost Items not included in the main Contract;
 - (b) prices for Recurrent Costs are all-inclusive of the costs of necessary Goods such as spare parts, software license renewals, labor, etc., needed for the continued and proper operation of the Information System and, if appropriate, of the Proposer's own allowance for price increases;
 - (c) prices for Recurrent Costs beyond the scope of warranty services to be incurred during the Warranty Period, defined in GCC Clause 29.4 and prices for Recurrent Costs to be incurred during the Post-Warranty Period, defined in SCC Clause 1.1. (e) (xiii), shall be quoted as Service prices on the Recurrent Cost Sub-Table in detail, and on the Recurrent Cost Summary Table in currency totals.
- 17.3. Unit prices must be quoted at a level of detail appropriate for calculation of any partial deliveries or partial payments under the contract, in accordance with the Implementation Schedule in Section VII), and with GCC and SCC Clause 12 Terms of Payment. Proposers may be required to provide a breakdown of any composite or lump-sum items included in the Cost Tables
- 17.4. The price of items that the Proposer has left blank in the cost tables provided in the Sample Proposal Forms (Section IV) shall be assumed to be included in the price of other items. Items omitted altogether from the cost tables shall be assumed to be omitted from the Proposal and, provided that the Proposal is substantially

responsive, an adjustment to the Proposal price will be made during Proposal evaluation in accordance with ITP 34.1.

- 17.5. The prices for Goods components of the Information System are to be expressed and shall be defined and governed in accordance with the rules prescribed in the edition of Incoterms specified in the PDS, as follows:
 - (a) Goods supplied from outside the Purchaser's country:

Unless otherwise specified **in the PDS**, the prices shall be quoted on a CIP (named place of destination) basis, exclusive of all taxes, stamps, duties, levies, and fees imposed in the Purchaser's country. The named place of destination and special instructions for the contract of carriage are as specified in the SCC for GCC 1.1 (e) (iii). In quoting the price, the Proposer shall be free to use transportation through carriers registered in any eligible countries. Similarly, the Proposer may obtain insurance services from any eligible source country;

(b) Locally supplied Goods:

Unit prices of Goods offered from within the Purchaser's Country, shall be quoted on an EXW (ex factory, ex works, ex warehouse or off-the-shelf, as applicable) basis, including all customs duties, levies, fees, sales and other taxes incurred until delivery of the Goods, but excluding all VAT or sales and other taxes and duties/fees incurred for the Goods at the time of invoicing or sales transaction, if the Contract is awarded;

- (c) Inland transportation.
- 17.6. Unless otherwise stated in the PDS, inland transportation, insurance and related local costs incidental to the delivery of the Goods to the designated Project Sites must be quoted separately as a Service item in accordance with ITP 17.5, whether the Goods are to be supplied locally or from outside the Purchaser's country, except when these costs are already included in the price of the Goods, as is, e.g., the case, when ITP 17.5 (a) specifies CIP, and the named places of destination are the Project Sites.
- 17.7. The price of Services shall be separated into their local and foreign currency components and where appropriate, broken down into unit prices. Prices must include all taxes, duties, levies and fees whatsoever, except only VAT or other indirect taxes, or stamp duties, that may be assessed and/or apply in the Purchaser's country on/to the price of the Services invoiced to the Purchaser, if the Contract is awarded.

- 17.8. Unless otherwise specified in the PDS, the prices must include all costs incidental to the performance of the Services, as incurred by the Supplier, such as travel, subsistence, office support, communications, translation, printing of materials, etc. Costs incidental to the delivery of the Services but incurred by the Purchaser or its staff, or by third parties, must be included in the price only to the extent such obligations are made explicit in these request for proposals documents (as, e.g., a requirement for the Proposer to include the travel and subsistence costs of trainees).
- 17.9. Unless otherwise specified in the PDS, prices quoted by the Proposer shall be fixed during the Proposer's performance of the Contract and not subject to increases on any account. Proposals submitted that are subject to price adjustment will be rejected.

18. Currencies of Proposal and Payment

- 18.1. The currency(ies) of the Proposal and currencies of payment shall be the same. The Proposer shall quote in the currency of the Purchaser's Country the portion of the Proposal price that corresponds to expenditures incurred in the currency of the Purchaser's Country, unless otherwise specified in the PDS.
- 18.2. The Proposer may express the Proposal price in any currency. If the Proposer wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but shall use no more than three foreign currencies in addition to the currency of the Purchaser's Country.

19. Period of Validity of Proposals

- 19.1. Proposals shall remain valid until the date specified in the PDS or any extended date if amended by the Purchaser in accordance with ITP 8. A Proposal that is not valid until the date specified in the PDS, or any extended date if amended by the Purchaser in accordance with ITP 8, shall be rejected by the Purchaser as nonresponsive.
- 19.2. In exceptional circumstances, prior to the date of expiry of the Proposal validity, the Purchaser may request Proposers to extend the date of validity until a specified date. The request and the responses shall be made in writing. If a Proposal Security is requested in accordance with ITP 20, it shall also be extended for twenty-eight days (28) beyond the deadline of the extended validity period. A Proposer may refuse the request without forfeiting its Proposal Security. A Proposer granting the request shall not be required or permitted to modify its Proposal, except as provided in ITP 19.3.
- 19.3. If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial Proposal validity specified in

- accordance with ITP 19.1, the Contract price shall be determined as follows:
- (a) in case of fixed price contracts, the contract price shall be the Proposal price adjusted by a factor or factors specified in the **PDS**:
- (b) in the case of an adjustable price contracts, no adjustments shall be made:
- (c) in any case, Proposal evaluation shall be based on the Proposal Price without taking into consideration the applicable correction from those indicated above.

20. Proposal Security

- 20.1. The Proposer shall furnish as part of the Technical Part of its Proposal, either a Proposal-Securing Declaration or a Proposal Security as specified in the PDS, in original form and, in the case of a Proposal Security, in the amount and currency specified in the PDS.
- 20.2. A Proposal-Securing Declaration shall use the form included in Section IV, Proposal Forms.
- 20.3. If a Proposal Security is specified pursuant to ITP 20.1, the Proposal security shall be a demand guarantee in any of the following forms at the Proposer's option:
 - (a) an unconditional guarantee issued by a non-bank financial institution (such as an insurance, bonding or surety company);
 - (b) an irrevocable letter of credit;
 - (c) a cashier's or certified check; or
 - (d) another security indicated in the PDS,

from a reputable source from an eligible country. If an unconditional guarantee is issued by a non-bank financial institution located outside the Purchaser's Country the issuing non-bank financial institution shall have a correspondent financial institution located in the Purchaser's Country to make it enforceable unless the Purchaser has agreed in writing, prior to Proposal submission, that a correspondent financial institution is not required. In the case of a bank guarantee, the Proposal Security shall be submitted either using the Proposal Security Form included in Section IV, Proposal Forms or in another substantially similar format approved by the Purchaser prior to Proposal submission. In either case, the form must include the complete name of the Proposer. The Proposal Security shall be valid for twenty-eight (28) days beyond the original date of expiry of the Proposal validity, or beyond any extended date if requested under ITP 19.2.

- 20.4. If a Proposal Security or a Proposal-Securing Declaration is specified pursuant to ITP 20.1, any Proposal not accompanied by a substantially responsive Proposal Security or Proposal-Securing Declaration shall be rejected by the Purchaser as non-responsive.
- 20.5. If a Proposal Security is specified pursuant to ITP 20.1, the Proposal Security of unsuccessful Proposers shall be returned as promptly as possible upon the successful Proposer's furnishing of the Performance Security pursuant to ITP 48.
- 20.6. The Proposal Security of the successful Proposer shall be returned as promptly as possible once the successful Proposer has signed the Contract and furnished the required Performance Security.
- 20.7. The Proposal Security may be forfeited:
 - (a) if a Proposer withdraws its Proposal prior to the expiry date of Proposal validity specified by the Proposer on the Letter of Proposal or any extended date provided by the Proposer; or
 - (b) if the successful Proposer fails to:
 - 1. sign the Contract in accordance with ITP 47; or
 - 2. furnish a performance security in accordance with ITP 48.

- 20.8. The Proposal Security or the Proposal-Securing Declaration of a JV shall be in the name of the JV that submits the Proposal. If the JV has not been legally constituted into a legally enforceable JV at the time of submission of Proposals, the Proposal Security or the Proposal-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITP 4.1 and ITP 11.5.
- 20.9. If a Proposal Security is not required in the PDS, and;
 - (a) if a Proposer withdraws its Proposal prior to the expiry date of the Proposal validity specified by the Proposer on the Letter of Proposal, or any extended date provided by the Proposer; or
 - (b) if the successful Proposer fails to: sign the Contract in accordance with ITP 47; or furnish a Performance Security in accordance with ITP 48;

the Purchaser may, if provided for **in the PDS**, declare the Proposer disqualified to be awarded a contract by the Purchaser for a period of time as stated **in the PDS**.

21. Format and Signing of Proposal

- 21.1. The Proposer shall prepare one original and copies/sets of the documents comprising the Proposal as described in ITP 11 and Proposer22.
- 21.2. Proposers shall mark as "CONFIDENTIAL" information in their Proposals which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.
- 21.3. The original and all copies of the Proposal shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Proposer. This authorization shall consist of a written confirmation as specified in the PDS and shall be attached to the Proposal. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Proposal where entries or amendments have been made shall be signed or initialed by the person signing the Proposal.

- 21.4. In case the Proposer is a JV, the Proposal shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 21.5. Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Proposal.

D. SUBMISSION OF PROPOSALS

- 22. Submission, Sealing and Marking of Proposals
- 22.1. The Proposer shall deliver the Proposal in two separate, sealed envelopes (the Technical Part and the Financial Part). These two envelopes shall be enclosed in a separate sealed outer envelope marked "Original Proposal". In addition, the Proposer shall submit copies of the Proposal in the number specified in the PDS. Copies of the Technical Part shall be placed in a separate sealed envelope marked "Copies: Technical Part". Copies of the Financial Part shall be placed in a separate sealed envelope marked "Copies: Financial Part". The Proposer shall place both of these envelopes in a separate, sealed outer envelope marked "Proposal Copies". In the event of any discrepancy between the original and the copies, the original shall prevail.
- 22.2. If alternative Proposals are permitted in accordance with ITP 14, the alternative Proposals shall be submitted as follows: the original of the alternative Proposal Technical Part shall be placed in a sealed envelope marked "ALTERNATIVE PROPOSAL TECHNICAL PART" and the Financial Part shall be placed in a sealed envelope marked "ALTERNATIVE PROPOSAL FINANCIAL PART" and these two separate sealed envelopes then enclosed within a sealed outer envelope marked "ALTERNATIVE PROPOSAL ORIGINAL", the copies of the alternative Proposal will be placed in separate sealed envelopes marked "ALTERNATIVE PROPOSAL COPIES OF TECHNICAL PART", and "ALTERNATIVE PROPOSAL COPIES OF FINANCIAL PART" and enclosed in a separate sealed outer envelope marked "ALTERNATIVE PROPOSAL COPIES.
- 22.3. The envelopes marked "ORIGINAL PROPOSAL" and "PROPOSAL COPIES" (and, if appropriate, a third envelope marked "ALTERNATIVE PROPOSAL") shall be enclosed in a separate sealed outer envelope for submission to the Purchaser.
- 22.4. The inner and outer envelopes shall:
 - (a) bear the name and address of the Proposer;
 - (b) be addressed to the Purchaser in accordance with ITP 23.1;

- bear the specific identification of this request for proposals process indicated in accordance with ITP 1.1;
 and
- (d) bear a warning not to open before the time and date for Proposal opening.
- 22.5. If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the Proposal.

23. Deadline for Submission of Proposals

- 23.1. Proposals must be received by the Purchaser at the address and no later than the date and time indicated in the PDS. When so specified in the PDS, Proposers shall have the option of submitting their Proposals electronically. Proposers submitting Proposals electronically shall follow the electronic Proposal submission procedures specified in the PDS.
- 23.2. The Purchaser may, at its discretion, extend this deadline for submission of Proposals by amending the request for proposals documents in accordance with ITP 8, in which case all rights and obligations of the Purchaser and Proposers will thereafter be subject to the deadline as extended.

24. Late Proposals

- 24.1. The Purchaser shall not consider any Proposal that arrives after the deadline for submission of Proposals, in accordance with ITP 23. Any Proposal received by the Purchaser after the deadline for submission of Proposals shall be declared late, rejected, and returned unopened to the Proposer.
- 25. Withdrawal, Substitution, and Modification of Proposals
- 25.1. A Proposer may withdraw, substitute, or modify its Proposal after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITP 21.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Proposal must accompany the respective written notice. All notices must be:
 - (a) prepared and submitted in accordance with ITP 21 and ITP 22 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," "MODIFICATION;" and
 - (b) received by the Purchaser prior to the deadline prescribed for submission of Proposals, in accordance with ITP 23.

25.2. Proposals requested to be withdrawn in accordance with ITP 25.1 shall be returned unopened to the Proposers.

No Proposal may be withdrawn, substituted, or modified in the interval between the deadline for submission of Proposals and the date of expiry of the Proposal validity specified by the Proposer on the Letter of Proposal or any extended date thereof.

E. PUBLIC OPENING OF TECHNICAL PARTS OF PROPOSALS

- 26. Public Opening of Technical Parts of Proposals
- 26.1. Except as in the cases specified in ITP 24 and ITP 25.2, the Purchaser shall conduct the Proposal opening in public, in the presence of Proposers' designated representatives and anyone who chooses to attend, and at the address, date and time specified in the PDS. Any specific electronic Proposal opening procedures required if electronic submission of proposals is permitted in accordance with ITP 23.1, shall be as specified in the PDS.
- 26.2. First, envelopes marked "Withdrawal" shall be opened and read out and the envelope with the corresponding Proposal shall not be opened but returned to the Proposer. No Proposal withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Proposal opening.
- 26.3. Next, envelopes marked "Substitution" shall be opened and read out and exchanged with the corresponding Proposal being substituted, and the substituted Proposal shall not be opened, but returned to the Proposer. No Proposal substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Proposal opening.
- 26.4. Envelopes marked "Modification" shall be opened and read out with the corresponding Proposal. No Proposal modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Proposal opening. Only Proposals that are opened and read out at Proposal opening shall be considered further.
- 26.5. Next, all other envelopes marked "Technical Part" shall be opened one at a time. All envelopes marked "Second Envelope: Financial Part" shall remain sealed and kept by the Purchaser in safe custody until they are opened at a later public opening, following the evaluation of the Technical Part parts of the Proposals. On opening the envelopes marked "Technical Part" the Purchaser shall read out: the name of the Proposer, the presence or the absence of a Proposal Security, or Proposal-Securing Declaration,

- if required, and whether there is a modification; and Alternative Proposal - Technical Part; and any other details as the Purchaser may consider appropriate.
- 26.6. Only Technical Parts of Proposals and Alternative Proposal Technical Parts that are read out at Proposal opening shall be considered further for evaluation. The Letter of Proposal-Technical Part and the separate sealed envelope marked "Second Envelope: Financial Part" are to be initialed by representatives of the Purchaser attending Proposal opening in the manner specified in the PDS.
- 26.7. The Purchaser shall neither discuss the merits of any Proposal nor reject any Proposal (except for late Proposals, in accordance with ITP 24.1).
- 26.8. The Purchaser shall prepare a record of the Proposal opening that shall include, as a minimum:
 - (a) the name of the Proposer and whether there is a withdrawal, substitution, or modification;
 - (b) any alternative Proposals; and
 - (c) the presence or absence of a Proposal Security or a Proposal-Securing Declaration.
- 26.9. The Proposers' representatives who are present shall be requested to sign the record. The omission of a Proposer's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Proposers.

F. EVALUATION OF PROPOSALS- GENERAL PROVISIONS

27. Confidentiality

- 27.1. Information relating to the evaluation of the Technical Part shall not be disclosed to Proposers or any other persons not officially concerned with the procurement process until the notification of evaluation of the Technical Part in accordance with ITP 33. Information relating to the evaluation of Financial Part, the evaluation of combined Technical Part and Financial Part, and recommendation of contract award shall not be disclosed to Proposers or any other persons not officially concerned with the RFP process until the Notification of Intention to Award the Contract is transmitted to Proposers in accordance with ITP 42ProposerProposer.
- 27.2. Any effort by a Proposer to influence the Purchaser in the evaluation of the Proposals or Contract award decisions may result in the rejection of its Proposal.

27.3. Notwithstanding ITP 27.2, from the time of Proposal opening to the time of Contract award, if any Proposer wishes to contact the Purchaser on any matter related to the procurement process, it should do so in writing.

28. Clarification of Proposals

- 28.1. To assist in the examination, evaluation, and comparison of the Proposals, and qualification of the Proposers, the Purchaser may, at its discretion, ask any Proposer for a clarification of its Proposal. Any clarification submitted by a Proposer that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change in the prices or substance of the Proposal shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the evaluation of the Proposals, in accordance with ITP 35.
- 28.2. If a Proposer does not provide clarifications of its Proposal by the date and time set in the Purchaser's request for clarification, its Proposal may be rejected.

29. Deviations, Reservations, and Omissions

- 29.1. During the evaluation of Proposals, the following definitions apply:
 - (a) "Deviation" is a departure from the requirements specified in the request for proposals document;
 - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the request for proposals document; and
 - (c) "Omission" is the failure to submit part or all of the information or documentation required in the request for proposals document.
- 29.2. Provided that a Proposal is substantially responsive, the Purchaser may waive any nonmaterial nonconformities in the Proposal.

Provided that a Proposal is substantially responsive, the Purchaser may request that the Proposer submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Proposal related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the price of the Proposal. Failure of the Proposer to comply with the request may result in the rejection of its Proposal.

G. EVALUATION OF TECHNICAL PART OF PROPOSALS

30. Determination of Responsiveness

- 30.1. The Purchaser's determination of the Technical Part's responsiveness shall be based on the contents of the Proposal, as specified in ITP 11.
- 30.2. Preliminary examination of the Technical Part shall be carried out to identify proposals that are incomplete, invalid or substantially nonresponsive to the requirements of the request for proposals documents. A substantially responsive Proposal is one that materially confirms to the requirements of the request for proposals document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that.
 - (a) if accepted, would:
 - (i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the request for proposals document, the Purchaser's rights or the Proposer's obligations under the proposed Contract; or
 - (iii) limit in any substantial way, inconsistent with the request for proposals document, the Purchaser's rights or the Proposer's obligations under the proposed Contract; or
 - (b) if rectified, would unfairly affect the competitive position of other Proposers presenting substantially responsive Proposals.
- 30.3. If the Technical Part is not substantially responsive to the requirements of the request for proposals document, it shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

31. Eligibility and Qualifications of the Proposer

- 31.1. The Purchaser shall determine to its satisfaction whether the Proposers that have been assessed to have submitted substantially responsive Proposals are eligible, and either continue to meet (if prequalification applies) or meet (if prequalification has not been carried out), the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.
- 31.2. The determination shall be based upon an examination of the documentary evidence of the Proposer's eligibility and

- qualifications submitted by the Proposer, pursuant to ITP 15. The determination shall not take into consideration the qualifications of other firms such as the Proposer's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the request for proposals document), or any other firm.
- 31.3. Prior to Contract award, the Purchaser will verify that the successful Proposer (including each member of a JV) is not disqualified by the Bank due to noncompliance with contractual SEA/SH prevention and response obligations. The Purchaser will conduct the same verification for each subcontractor proposed by the successful Proposer. If any proposed subcontractor does not meet the requirement, the Purchaser will require the Proposer to propose a replacement subcontractor.
- 31.4. Only substantially responsive Proposals submitted by eligible and qualified Proposers shall proceed to the detailed technical evaluation specified in ITP 32.
- 31.5. The Purchaser's evaluation of Technical Part will be carried out as specified in Section III, Evaluation and Qualification Criteria.
- 32. Detailed
 Evaluation of
 Technical Part
- 32.1. The scores and weightings to be given to Rated Criteria (including technical and non-price factors and sub factors) are specified in the PDS.

H. NOTIFICATION OF EVALUATION OF TECHNICAL PARTS AND PUBLIC OPENING OF FINANCIAL PARTS

- 33. Notification of
 Evaluation of
 Technical Parts
 and Public
 Opening of
 Financial Parts
- 33.1. Following the completion of the evaluation of the Technical Parts of the Proposals, the Purchaser shall notify in writing those Proposers whose Proposals were considered substantially non-responsive to the request for proposals document or failed to meet the eligibility and qualification requirements, advising them of the following information:
 - (a) the grounds on which their Technical Part of Proposal failed to meet the requirements of the request for proposals document;
 - (b) their envelopes marked "SECOND ENVELOPE: FINANCIAL PART" will be returned to them unopened after the completion of the selection process and the signing of the Contract; and

- (c) Option 1: when BAFO or negotiations is not to be applied notify them of the date, time and location of the public opening of the envelopes marked 'Financial Part', or;
 - Option 2: when BAFO or negotiations apply as specified in the PDS, notify them that: (i) the envelopes marked 'Financial Part' will not be opened in public, but in the presence of a probity auditor appointed by the Purchaser, and that (ii) the announcement of the names of the Proposers whose Financial Parts will be opened and the total Proposal prices will be deferred to the time that the Notification of Intention to Award the contract is issued.
- 33.2. The Purchaser shall, simultaneously, notify in writing those Proposers whose Technical Part have been evaluated as substantially responsive to the request for proposals document and met the eligibility and qualification requirements, advising them of the following information:
- 33.3. their Proposal has been evaluated as substantially responsive to the request for proposals document and met the eligibility and qualification requirements;
- 33.4. Option 1: when BAFO or negotiations is not to be applied notify them of the date, time and location of the public opening of the envelopes marked 'Financial Part', or;
 - Option 2: when BAFO or negotiations apply as specified in the PDS, notify them that: (i) the envelopes marked 'Financial Part' will not be opened in public, but in the presence of a probity auditor appointed by the Purchaser, and that (ii) the announcement of the names of the Proposers whose Financial Parts will be opened and the total Proposal prices will be deferred to the time that the Notification of Intention to Award the contract is issued.
- 33.5. When BAFO or negotiations do not apply as specified in the PDS, the Financial Part of the Proposal shall be opened publicly in the presence of Proposers' designated representatives and anyone who chooses to attend.
- 33.6. The opening date shall be not less than ten (10) Business Days from the date of notification of the results of the technical evaluation, specified in ITP 33.1 and 33.2. However, if the Purchaser receives a complaint on the results of the technical evaluation within the ten (10) Business Days, the opening date shall be subject to ITP 50.1.

- 33.7. At this public opening, the Financial Parts will be opened by the Purchaser in the presence of Proposers, or their designated representatives and anyone else who chooses to attend. Proposers who met the eligibility and qualification requirements and whose Proposals were evaluated as substantially responsive will have their envelopes marked "SECOND ENVELOPE: FINANCIAL PART" opened at the second public opening. Each of these envelopes marked "SECOND ENVELOPE: FINANCIAL PART" shall be inspected to confirm that they have remained sealed and unopened. These envelopes shall then be opened by the Purchaser. The Purchaser shall read out the names of each Proposer, the technical score and the total Proposal prices, per lot (contract) if applicable, including any discounts and Alternative Proposal Financial Part, and any other details as the Purchaser may consider appropriate.
- 33.8. Only envelopes of Financial Part of Proposals, Financial Parts of Alternative Proposals and discounts that are opened and read out at Proposal opening shall be considered further for evaluation. The Letter of Proposal Financial Part and the Price Schedules are to be initialed by a representative of the Purchaser attending the Proposal opening in the manner specified in the PDS.
- 33.9. The Purchaser shall neither discuss the merits of any Proposal nor reject any envelopes marked "SECOND ENVELOPE: FINANCIAL PART" at this public opening.
- 33.10. The Purchaser shall prepare a record of the Financial Part of the Proposal opening that shall include, as a minimum: (a) the name of the Proposer whose Financial Part was opened; (b) the Proposal price, per lot (contract) if applicable, including any discounts; and (c) if applicable, any Alternative Proposal Financial Part.
- 33.11. The Proposers whose envelopes marked "SECOND ENVELOPE: FINANCIAL PART" have been opened or their representatives who are present shall be requested to sign the record. The omission of a Proposer's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Proposers.
- 33.12. When, as specified in the PDS, BAFO or negotiations apply the Financial Parts will not be opened in public and will be opened in the presence of a probity auditor appointed by the Purchaser.
- 33.13. At the opening each of the envelopes marked "Financial Part" shall be inspected to confirm that they have remained sealed and unopened. These envelopes shall then be opened by the Purchaser. The Purchaser shall record the names of each Proposer, and the total Proposal prices and any other details as the Purchaser may consider appropriate. The Letter of Proposal Financial Part and

- the Price Schedules are to be initialed by a representative of the Purchaser attending the opening and by the probity auditor.
- 33.14. The Purchaser shall prepare a record of the opening of the Financial Part envelopes that shall include, as a minimum:
 - (a) the name of the Proposers whose Financial Part was opened;
 - (b) the Proposal prices including any discounts. and
 - (c) The Probity Auditor's report of the opening of the Financial Part.
- 33.15. The probity auditor shall sign the record. The contents of the envelopes marked 'Financial Part' and the record of the opening shall be kept in safe custody by the Purchaser and not disclosed to anyone until the time of the transmission of the Notification of Intention to Award the contract.

I. EVALUATION OF FINANCIAL PART OF PROPOSALS

34. Adjustments for Non-material Noconformities

34.1. Provided that a Proposal is substantially responsive, the Purchaser shall rectify quantifiable nonmaterial nonconformities related to the Proposal Price. To this effect, the Proposal Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component by adding the average price of the item or component quoted by substantially responsive Proposers. If the price of the item or component cannot be derived from the price of other substantially responsive Proposers, the Purchaser shall use its best estimate.

35. Correction of Arithmetic Errors

- 35.1. In evaluating the Financial Part of each Proposal, the Purchaser shall correct arithmetical errors on the following basis:
 - (a) where there are errors between the total of the amounts given under the column for the price breakdown and the amount given under the Total Price, the former shall prevail and the latter will be corrected accordingly;
 - (b) where there are errors between the total of the amounts of Schedule Nos. 1 to 5 and the amount given in Schedule No. 6 (Grand Summary), the former shall prevail and the latter will be corrected accordingly; and
 - (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

35.2. Proposers shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITP 35.1, shall result in the rejection of the Proposal.

36. Evaluation of Proposals Financial Part

- 36.1. To evaluate the Financial Part, the Purchaser shall consider the following:
 - (a) the Proposal price, excluding provisional sums and the provision, if any, for contingencies in the Price Schedules;
 - (b) price adjustment for correction of arithmetic errors in accordance with ITP 35.1;
 - (c) price adjustment due to discounts offered in accordance with ITP 26;
 - (d) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITP 34.1;
 - (e) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITP 36.2; and
 - (f) the evaluation factors indicated in the PDS and detailed in Section III, Evaluation and Qualification Criteria.
- 36.2. For evaluation and comparison purposes, the currency(ies) of the **Proposal** shall be converted into a single currency **as specified in the PDS**.
- 36.3. No margin of domestic preference shall apply.
- 36.4. If price adjustment is allowed in accordance with ITP 17.7, the estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Proposal evaluation.
- 36.5. If this request for proposals document allows Proposers to quote separate prices for different lots (contracts), each lot will be evaluated separately to determine the Most Advantageous Proposal using the methodology specified in Section III, Evaluation and Qualification Criteria. Discounts that are conditional on the award of more than one lotor slice shall not be considered for Proposal evaluation.
- 36.6. The Purchaser will evaluate and compare the Proposals. The evaluation will be performed assuming either that:

- (a) the Contract will be awarded to the Most Advantageous Proposal for the entire Information System; or
- (b) if specified in the PDS, Contracts will be awarded to the Proposers for each individual Subsystem, lot, or slice defined in the Technical Requirements whose Proposals result in the Most Advantageous Proposal/Proposals for the entire System.

In the latter case, discounts that are conditional on the award of more than one Subsystem, lot, or slice may be offered in Proposals. Such discounts will be considered in the evaluation of Proposals as specified in the PDS.

37. Abnormally Low Proposals

- 37.1. An Abnormally Low Proposal is one where the Proposal price in combination with other constituent elements of the Proposal appears unreasonably low to the extent that the Proposal price raises material concerns as to the capability of the Proposer to perform the Contract for the offered Proposal Price.
- 37.2. In the event of identification of a potentially Abnormally Low Proposal, the Purchaser shall seek written clarifications from the Proposer, including detailed price analyses of its Proposal price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the request for proposals document.
- 37.3. After evaluation of the price analyses, in the event that the Purchaser determines that the Proposer has failed to demonstrate its capability to perform the Contract for the offered Proposal Price, the Purchaser shall reject the Proposal.

38. Unbalanced or Front Loaded Proposals

- 38.1. If the Proposal that is evaluated as the lowest evaluated cost is, in the Purchaser's opinion, seriously unbalanced or front loaded the Purchaser may require the Proposer to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the Proposal prices with the scope of information systems, installations, proposed methodology, schedule and any other requirements of the request for proposals document.
- 38.2. After the evaluation of the information and detailed price analyses presented by the Proposer, the Purchaser may:
 - (a) accept the Proposal; or

- (b) if appropriate, require that the total amount of the Performance Security be increased, at the expense of the Proposer, to a level not exceeding twenty percent (20%) of the Contract Price; or
- (c) reject the Proposal.

J. EVALUATION OF COMBINED TECHNICAL AND FINANCIAL PARTS, MOST ADVANTAGEOUS PROPOSAL AND NOTIFICATION OF INTENTION TO AWARD

- 39. Evaluation of combined Technical and Financial Parts, Most Advantageous Proposal
- 39.1. The Purchaser's evaluation of responsive Proposals will take into account technical factors, in addition to cost factors in accordance with Section III Evaluation and Qualification Criteria. The weight to be assigned for the Technical factors and cost is specified in the PDS. The Purchaser will rank the Proposals based on the evaluated Proposal score (B).
- 39.2. Best and Final Offer (BAFO): After completion of the combined technical and financial evaluation of proposals, If specified in the PDS, the Purchaser may invite those Proposers to submit their BAFOs. The procedure for submitting BAFOs will be specified in the PDS. BAFO is a final opportunity for Proposers to improve their Proposals without changing the specified business function and performance requirements in accordance with the invitation to Submit Second Stage Combined Technical and Financial Proposals, Proposers are not obliged to submit a BAFO. Where BAFO is used there will be no negotiation after BAFO.
- 39.3. BAFO will apply a two envelope procurement process. The submission of BAFOs, opening of the Technical Parts and Financial Parts and the evaluation of Proposals will follow the procedures described for the Technical, Financial and Combined evaluation above, as appropriate.
- 39.4. The Purchaser shall determine the Most Advantageous Proposal. The Most Advantageous Proposal is the Proposal of the Proposer that meets the Qualification Criteria and whose Proposal has been determined to be substantially responsive to the request for proposals document and is the Proposal with the highest combined technical and financial score.
- 39.5. If specified in the PDS, the Purchaser may conduct negotiations following the evaluation of the proposals and before the final

- contract award. The procedure of the negotiations will be specified in the PDS.
- 39.6. Negotiations shall be held in the presence of probity auditor appointed by the Purchaser.
- 39.7. Negotiations may address any aspect of the contract so long as they do not materially change the specified business function and performance requirements.
- 39.8. The Purchaser may negotiate first with the Proposer that has the Most Advantageous Proposal. If the negotiations are unsuccessful the Purchaser may negotiate with the Proposer that has the next best Most Advantageous Proposal, and so on down the list until a successful negotiated outcome is achieved.
- 39.9. Unless otherwise specified in the PDS, the Purchaser will NOT carry out tests prior to Contract award, to determine that the performance or functionality of the Information System offered meets those stated in the Technical Requirements. However, if so specified in the PDS the Purchaser may carry out such tests as detailed in the PDS.
- 39.10. Proposer.
- 39.11. Prior to Contract award, the Purchaser may carry out visits or interviews with the Proposer's clients referenced in its Proposal and site inspections.
- 39.12. The capabilities of the manufacturers and subcontractors proposed by the Proposer that is determined to have offered the Most Advantageous Proposal for identified major items of supply or services will also be evaluated for acceptability in accordance with Section III, Evaluation and Qualification Criteria. Their participation should be confirmed with a letter of intent between the parties, as needed. Should a manufacturer or subcontractor be determined to be unacceptable, the Proposal will not be rejected, but the Proposer will be required to substitute an acceptable manufacturer or subcontractor without any change to the Proposal price. Prior to signing the Contract, the corresponding Appendix to the Contract Agreement shall be completed, listing the approved manufacturers or subcontractors for each item concerned.
- 40. Purchaser's
 Right to Accept
 Any Proposal,
 and to Reject
 Any or All
 Proposals
- 40.1. The Purchaser reserves the right to accept or reject any Proposal, and to annul the procurement process and reject all Proposals at any time prior to contract award, without thereby incurring any liability to Proposers. In case of annulment, all Proposals submitted and specifically, Proposal securities, shall be promptly returned to the Proposers.

41. Standstill Period

41.1. The Contract shall not be awarded earlier than the expiry of the Standstill Period. The Standstill Period shall be ten (10) Business Days unless extended in accordance with ITP 46. The Standstill Period commences the day after the date the Purchaser has transmitted to each Proposer the Notification of Intention to Award the Contract. Where only one Proposal is submitted, or if this contract is in response to an emergency situation recognized by the Bank, the Standstill Period shall not apply.

42. Notification of Intention to Award

- 42.1. The Purchaser shall send to each Proposer the Notification of Intention to Award the Contract to the successful Proposer. The Notification of Intention to Award shall contain, at a minimum, the following information:
 - (a) the name and address of the Proposer submitting the successful Proposal;
 - (b) the Contract price of the successful Proposal;
 - the total combined score of the successful Proposal; (c)
 - (d) the names of all Proposers who submitted Proposals, and their Proposal prices as readout and as evaluated prices and technical scores:
 - (e) a statement of the reason(s) the Proposal (of the unsuccessful Proposer to whom the notification is addressed) was unsuccessful;
 - (f) the expiry date of the Standstill Period; and
 - instructions on how to request a debriefing or submit a (g) complaint during the standstill period;

K. AWARD OF CONTRACT

43. Award Criteria

43.1. Subject to ITP 40, the Purchaser shall award the Contract to the successful Proposer. This is the Proposer whose Proposal has been determined to be the Most Advantageous Proposal..

Proposer.

- to Vary **Ouantities at** Time of Award
- **44.** Purchaser's Right 44.1. The Purchaser reserves the right at the time of Contract award to increase or decrease, by the percentage(s) for items as indicated in the PDS.

45. Notification of Award

- 45.1. Prior to the date of expiry of the Proposal validity and upon expiry of the Standstill Period, specified in ITP 41.1 or any extension thereof, and, upon satisfactorily addressing any complaint that has been filed within the Standstill Period, the Purchaser shall notify the successful Proposer, in writing, that its Proposal has been accepted. The notification letter (hereinafter and in the Contract Forms called the "Letter of Acceptance") shall specify the sum that the Purchaser will pay the Supplier in consideration of the execution of the Contract (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price").
- 45.2. Within ten (10) Business days after the date of transmission of the Letter of Acceptance, the Purchaser shall publish the Contract Award Notice which shall contain, at a minimum, the following information:
 - (a) name and address of the Purchaser;
 - (b) name and reference number of the contract being awarded, and the selection method used;
 - (c) names of all Proposers that submitted Proposals, and their Proposal prices as read out at Proposal opening, and as evaluated;
 - (d) name of Proposers whose Proposals were rejected and the reasons for their rejection;
 - (e) the name of the successful Proposer, the final total contract price, the contract duration and a summary of its scope; and
 - (f) successful Proposer's Beneficial Ownership Disclosure Form.
- 45.3. The Contract Award Notice shall be published on the Purchaser's website with free access if available, or in at least one newspaper of national circulation in the Purchaser's Country, or in the official gazette.
- 45.4. Until a formal contract is prepared and executed, the Notification of Award shall constitute a binding Contract.

46. Debriefing by the Purchaser

46.1. On receipt of the Purchaser's Notification of Intention to Award referred to in ITP 42, an unsuccessful Proposer has three (3) Business Days to make a written request to the Purchaser for a debriefing. The Purchaser shall provide a debriefing to all unsuccessful Proposers whose request is received within this deadline.

- 46.2. Where a request for debriefing is received within the deadline, the Purchaser shall provide a debriefing within five (5) Business Days, unless the Purchaser decides, for justifiable reasons, to provide the debriefing outside this timeframe. In that case, the standstill period shall automatically be extended until five (5) Business Days after such debriefing is provided. If more than one debriefing is so delayed, the standstill period shall not end earlier than five (5) Business Days after the last debriefing takes place. The Purchaser shall promptly inform, by the quickest means available, all Proposers of the extended standstill period.
- 46.3. Where a request for debriefing is received by the Purchaser later than the three (3) Business Day deadline, the Purchaser should provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of Public Notice of Award of contract. Requests for debriefing received outside the three (3)-day deadline shall not lead to extension of the standstill period.
- 46.4. Debriefings of unsuccessful Proposers may be done in writing or verbally. The Proposer shall bear their own costs of attending such a debriefing meeting.

47. Signing of Contract

- 47.1. The Purchaser shall send to the successful Proposer the Letter of Acceptance including the Contract Agreement, and a request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form shall be submitted within eight (8) Business Days of receiving this request.
- 47.2. The successful Proposer shall sign, date and return to the Purchaser, the Contract Agreement within twenty-eight (28) days of its receipt.
- 47.3. Notwithstanding ITP 47.2 above, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the Information System to be supplied, where such export restrictions arise from trade regulations from a country supplying those Information System, the Proposer shall not be bound by its Proposal, always provided, however, that the Proposer can demonstrate to the satisfaction of the Purchaser and of the Bank that signing of the Contract Agreement has not been prevented by any lack of diligence on the part of the Proposer in completing any formalities, including applying for permits, authorizations and licenses

necessary for the export of the Information System under the terms of the Contract.

48. Performance Security

- 48.1. Within twenty-eight (28) days of the receipt of the Letter of Acceptance from the Purchaser, the successful Proposer shall furnish the performance security in accordance with the General Conditions, subject to ITP 38.2 (b), using for that purpose the Performance Security Form included in Section X, Contract Forms, or another form acceptable to the Purchaser. If the Performance Security furnished by the successful Proposer is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Proposer to be acceptable to the Purchaser. A foreign institution providing a Performance Security shall have a correspondent financial institution located in the Purchaser's Country.
- 48.2. Failure of the successful Proposer to submit the abovementioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Proposal Security. In that event the Purchaser may award the Contract to the Proposer offering the next Most Advantageous Proposal.

49. Adjudicator

49.1. Unless the PDS states otherwise, the Purchaser proposes that the person named in the PDS be appointed as Adjudicator under the Contract to assume the role of informal Contract dispute mediator, as described in GCC Clause 43.1. In this case, a résumé of the named person is attached to the PDS. The proposed hourly fee for the Adjudicator is specified in the PDS. The expenses that would be considered reimbursable to the Adjudicator are also specified in the PDS. If a Proposer does not accept the Adjudicator proposed by the Purchaser, it should state its non-acceptance in its Proposal Form and make a counterproposal of an Adjudicator and an hourly fee, attaching a résumé of the alternative. If the successful Proposer and the Adjudicator nominated in the PDS happen to be from the same country, and this is not the country of the Purchaser too, the Purchaser reserves the right to cancel the Adjudicator nominated in the PDS and propose a new one. If by the day the Contract is signed, the Purchaser and the successful Proposer have not agreed on the appointment of the Adjudicator, the Adjudicator shall be appointed, at the request of either party, by the Appointing Authority specified in the SCC clause relating to GCC Clause 43.1.4, or if no Appointing

Authority is specified there, the Contract will be implemented without an Adjudicator.

50. Procurement Related Complaint

50.1. The procedures for making a Procurement-related Complaint are as specified in the PDS.

SECTION II - PROPOSAL DATA SHEET (PDS)

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

ITP Reference	A. General			
ITP 1.1	The reference number of the Request for proposal is: PK-SID-523961-GO-RFB			
	The Purchaser is: Project Implementation Unit, Competitive and Livable City of Karachi (CLICK), Investment Department, Government of Sindh			
	The name of the RFP is: Establishment of Co-location / Cloud Services of IT Infrastructure at Primary and Backup Site for S-BOSS, CLICK.			
	The Purchaser shall not accept Proposal for multiple lots under this request for proposals document.			
	The lots are: "Not applicable"			
ITP 1.3 (a)	Electronic Procurement shall not be applicable to this procurement.			
ITP 2.1	The Borrower is: Government of Islamic Republic of Pakistan			
	Loan or Financing Agreement amount: US\$ 230 Million			
The name of the Project is: Competitive and Livable City of Ka				
(CLICK)				
ITP 4.1	Maximum number of members in the JV shall be: three (03).			
ITP 4.5	A list of debarred firms and individuals is available on the Bank's external website: http://www.worldbank.org/debarr.			
	B. Request for proposals Document			
ITP 7.1	For Clarification of Proposal purposes only, the Purchaser's address is: Attention: The Project Director,			

	Address: 1st Floor, Block-A, Finance & Trade Center, Shahra-e-Faisal Karachi		
	City: Karachi Country: Pakistan		
	Country: Pakistan Talanhana Na : 021 - 00207557 562		
	Telephone No.: 021 – 99207557-562		
	Electronic mail address: <u>pd@business.gos.pk</u> and <u>irshad.siddiqui393@yahoo.com</u> Requests for clarification should be received by the Purchaser no later than ten 10 days prior to the deadline for submission of Proposals in accordance with ITP 23.1 .		
ITP 7.1	Visit www.sindhinvestment.gos.pk & www.business.gos.pk for access to bidding documents.		
ITP 7.4	A Pre-Proposal meeting shall take place at the following date, time and place:		
	Date: 05 Th January, 2026		
	Time: 11.30 AM (PST)		
	Address: 1st Floor, Block-A, Finance & Trade Center, Shahra-e-Faisal Karachi.		
	City: Karachi		
	Country: Pakistan		
	Telephone No.: 021 – 99207557-562		
	A site visit conducted by the Purchaser "shall not be" organized.		
	C. Preparation of Proposals		
ITP 10.1	The language of the Proposal is: English .		
	All correspondence exchange shall be in: English language.		
	Language for translation of supporting documents and printed literature is: English.		
ITP 11.2 (j)	The Proposer shall submit with its Proposal the following additional documents the Technical Part of its Proposal: The list of additional documents shall include the following:		
	Code of Conduct for Supplier's Personnel (ES)		
	The Proposer shall submit its Code of Conduct that will apply to the Supplier's Personnel (as defined in GCC Clause 1.1) employed in the execution of the Contract at the Project Site/s to ensure compliance with the Supplier's Environmental and/or social obligations under the		

	 (i) Project Organization and Management Sub-Plan, including management authorities, responsibilities, and contacts, as well as task, time and resource-bound schedules (in GANTT format); (ii) Implementation Sub-Plan; 				
ITP 16.2 (a)	Project Plan must address the following topics:				
ITP 15.2	Prequalification has not been undertaken.				
ITP 13.4	Alternative technical solutions shall be permitted for the following parts of the Information System: "none" as further detailed in the Section VII – Purchaser's Requirements "not applicable." If alternative technical solutions are permitted, the evaluation method will be as specified in Section III, Evaluation and Qualification Criteria.				
ITP 13.2	Alternative Proposals are not permitted.				
ITP 13.1	The Proposer shall submit the following additional documents in the Financial Part of its Proposal: "None"				
ITP 11.3(d)	The Proposer shall submit the following additional documents in the Financial Part of its Proposal: "None"				
	The Proposer shall submit method statement, management strategies and implementation plan and innovations to manage cyber security risks.				
	Cyber Security Management Strategies and Implementation Plans (CSMSIP)				
	The Proposer shall submit Management Strategies and Implementation Plans (MSIPs) to manage the following key Environmental and Social (ES) risks: e.g. Sexual Exploitation, and Abuse (SEA) prevention and response action plan.				
	Management Strategies and Implementation Plans (MSIP) to manage the (ES) risks				
	Contract, as applicable. The Proposer shall use for this purpose the Code of Conduct form provided in Section IV. No substantial modifications shall be made to this form, except that the Proposer may introduce additional requirements, including as necessary to take into account specific Contract issues/risks.				

	(iv)Warranty Defect Repair and Technical Support Service Sub-Plan	
	the Sub-Plans must align with the corresponding services mentioned in the Section VII – Purchaser's Requirements.	
ITP 16.3	In the interest of effective integration, cost-effective technical support, and reduced re-training and staffing costs, Proposers shall offer the following items: "None"	
ITP 17.2	The Proposer must propose Recurrent Cost Items	
ITP 17.2	The Proposer must propose for contracts for Recurrent Cost Items included in the main Contract.	
ITP 17.5	The Incoterms edition is: "Incoterms 2020"	
ITP 17.5 (a)	Named place of destination is: PIU, CLICK Office, Karachi.	
ITP 17.6	Named place of final destination (or Project site) is: PIU, CLICK Office, Karachi.	
ITP 17.8	ITP 17.8 is modified as fos: There are no modifications to ITP 17.8.	
ITP 17.9	The prices quoted by the Proposer " shall not " be subject to adjustment during the performance of the Contract.	
ITP 18.1	The Proposer shall require to quote in the currency of the Purchaser's Country the portion of the Proposal price that corresponds to expenditures incurred in that currency.	
ITP 19.1	The Proposal shall be valid until: 30th April 2026.	
ITP 19.3 (a)	The Proposal price shall be adjusted by the following factor(s):	
	For Foreign Currency Proposal(s): 1% + SOFR	
	For Local Currency Proposal(s): 1% + KIBOR	
ITP 20.1	A Proposal Security shall be required.	
	A Proposal-Securing Declaration shall not be required.	
	The amount and currency of the Proposal Security shall be	
	US \$ 50,000 (USD Fifty Thousand only) OR PKR 14,000,000/- (PKR Fourteen Million only)	
	The proposal security will be acceptable in the form of either an "Unconditional Bank Guarantee or a Cashier's check or a Pay Order"	

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	drawn on a scheduled bank of Pakistan and any other scheduled bank outside Pakistan.			
	The proposal security <u>must cover the proposal validity period</u> .			
	The Proposer shall furnish the Proposal Security in favor of:			
	Project Director-CLICK, Investment Department, Government of Sindh.			
ITP 20.3 (d)	Other types of acceptable securities: "None"			
ITP 20.9	Not Applicable			
ITP 21.3	The written confirmation of authorization to sign on behalf of the Bidder shall consist of:			
	A board resolution or its equivalent, or notarized Power of Attornous specifying the representative's authority to sign the proposal(s) on behat of, and to legally bind, the proposal(s) shall be provided. If the propose is an intended or an existing Joint Venture, the power of attorney should be signed by all partners and specify the authority of the name representative of the Joint Venture to sign on behalf of and legally bin the intended or existing Joint Venture partners. If the Joint Venture hand been formed, also include evidence from all proposed Joint Venture partners of their intent to enter into a Joint Venture in the event of contract award following ITP 11.			
	D. Submission and Opening of Proposals			
ITP 22.1	In addition to the original of the Proposal, the number of copies is: two (02) HARD COPIES , having each page duly signed and stamped. The envelope containing original should clearly be scripted 'ORIGINAL', whilst enveloped containing copies is to be marked as '02 PHOTOCOPIED SETS' and 01 SOFT COPY in pdf format saved on USB device.			
	In case of any discrepancy between the soft and hard copies, the hard copy shall prevail.			
	Financial proposal must be submitted in original sealed envelope only.			
ITP 23.1	For Proposal submission purposes only, the Purchaser's address is: Attention:			
	The Project Director, Competitive and Livable City of Karachi (CLICK), Investment Department, Government of Sindh. 1st Floor, Block-A, Finance & Trade Center, Shahra-e-Faisal Karachi, Pakistan.			

	The deadline for Proposal submission is: Date: 23 rd January, 2026 Time: 03:00 PM (Pakistan Standard Time)			
ITP 23.1	Proposers "shall not" have the option of submitting their Proposals electronically.			
	The e	electronic proposals submission procedures s able"	hall be: "not	
E	. Publ	ic Opening of Technical Parts of Propos	als	
ITP 26.1	The Proposal opening shall take place at: The Committee Room, Competitive and Livable City of Karachi (CLICK), Investment Department, Government of Sindh 1st Floor, Block-A, Finance & Trade Center, Shahra-e-Faisal Karachi, Sindh. Date: 23 rd January, 2026 Time: 03:15 PM (Pakistan Standard Time)			
ITP 26.1	The el	ectronic Proposal opening procedures shall be: "i	not applicable".	
	G. E	valuation of Technical Part of Proposals	5	
ITP 32.2	evalua	cting to meeting/ qualifying the mandatory criteria tion of responsive proposals will take into cal factors.		
	Sr. No.	Requirements / Parameters	Compliance (Yes or No)	
	1.	The proposed Cloud OEM be recognized at least Gold Partners of the Open Infrastructure Foundation.		
2. The proposed OEM for secured Private Cloud Operating System should be 100% Open Source, 1. Access to Source Code, 2. Access to Binaries 3. Repository Access and 4. Redistribution Rights (The authorization letter is required from the OEM).				
	The proposed OEMs for IT Hardware's (Server, Storage, Switch, Firewall and Router) must be Leader Quadrant of Gartner's Magic Quadrant in last 5 years (2021-2025)			
	4.	The proposed OEMs for IT Hardware's (Server, Storage, Switch, Firewall and Router) managing direct		

	services with spares management at least in Karachi, Pakistan.	
5.	The bidder must be Tier-1 partner of at least proposed OEMs (Server and Storage)	
6.	The bidder must provide the valid partnership certificate of all the OEMs proposed in the solution.	
7.	The bidder shall provide evidence of being duly authorized by a Manufacturer (Manufacturer's Authorization Form, Section IV, Bidding Forms)	
8.	All goods (to be delivered with services) shall fully comply with the Mandatory Technical Specifications specified Section VII, Part D. Technology Specifications.	
9.	The Connectivity Services for Primary & Backup Site is required by Tier-I Internet Service Provider (ISP) holding international connectivity two or more. The Colocation facility must be Tier-III or higher in Karachi and the Backup Site must be on ISO 27001 standards at geolocation distance of approximately 160 KM or more located in Sindh.	

The technical factors (including sub-factors if any), which for purpose of this document carry the same meaning as Rated Criteria, and the corresponding weight out of $\underline{100\%}$ are:

Technical Factor

Weight in percentage 60% (0.6X of 1.0)

Sr.	Technical Factor	Weightage
No.		(%)
1.	Part – A Cloud Experience	40
2.	Part – B Product Techincal Strength	30
3.	Part – C Bidder/ Prinicipal's Support	20
4.	Part – D Implementation Plan and Project	10
	Management	

The technical proposal scoring methodology is specified in Section III- Evaluation and Qualification Criteria.

H. Notification of Evaluation of Technical Parts and Public Opening of Financial Part s

ITP 33.8	The Letter of Proposal – Financial Part and the Price Schedules shall be initialed by all Committee Members of the Purchaser conducting Proposal opening.				
	Any modification to the unit or total price shall be initialed by all Committee Members of the Purchaser conducting Proposal opening.				
	I. Evaluation of Financial Part of Proposals				
36.1(f)	The adjustments shall be determined using the following criteria, from amongst				
	those set out in Section III, Evaluation and Qualification Criteria:				
	(a) Deviation in Time for Completion: <i>No</i>				
	(b) Present value of Recurrent Costs <i>No</i>				
	(c) Functional Guarantees of the Facilities <i>No</i>				
	(d) Work, services, facilities, etc., to be provided by the Purchaser: <i>No</i>				
ITP 36.2	The currency(ies) of the Proposal shall be converted into a single currency as follows: Pak Rupees (PKR)				
	The currency that shall be used for Proposal evaluation and comparison purposes to convert all Proposal prices expressed in various currencies into a single currency is: Pak Rupees (PKR)				
	The source of exchange rate shall be: The TT selling rate issued by the Treasury Management Division of National Bank of Pakistan at https://www.nbp.com.pk/ratesheet/index.aspx				
	The date for the exchange rate shall be: 07 days prior to the deadline for submission of the Proposals.				
J. Evaluat	ion of Combined Technical and Financial Parts and Most Advantageous Proposal				
ITP 39.1	The weight to be given for cost is: 0.6 (60%)				
	Weight for cost plus weight for total technical score is 01 (one)				
	T = 60% (0.6), and				
	F = 40% (0.4)				
	<u>Total=100% (1)</u>				
	Discount Rate (I) for net present value calculations of recurrent costs (if any) is <u>N/A</u> percent per annum.				
ITP 39.2	BAFO "does not apply"				

ITP 39.5	Negotiation "does not apply"				
ITP 39.9	Not Applicable				
	K. AWARD OF CONTRACT				
ITP 44	The maximum percentage by which quantities may be increased is: 15% The maximum percentage by which quantities may be decreased is: 15%				
ITP 49	The proposed Adjudicator is: Barrister Habib Ullah Masood The Adjudicator will be paid as adjudicator a rate of PKR 15,000/- Per Hour The fees include all dispute-related telephone, internet and other communications costs, as well as all costs associated with any trips to the site(s), if any.				
ITP 50.1	The procedures for making a Procurement-related Complaint are detailed in the "Procurement Regulations for IPF Borrowers (Annex III)." A Procurement related Complaint may challenge any of the following: 1. The terms of the request for proposals document; 2. the Purchaser's decision to exclude a Proposer from the procurement process prior to the award of contract; and 3. The Purchaser's decision to award the contract. If a Proposer wishes to make a Procurement-related Complaint, the Proposer should submit its complaint following these procedures, in writing (by the quickest means available, that is either by email or fax), to: For the attention: Mr. Raja Khurram Shehzad Umar Title/position: Secretary, Investment Department, Government of Sindh Purchaser: Project Implementation Unit, Competitive and Livable City of Karachi (CLICK) Email address: secretary@sindhinvestment.gos.pk A copy of the complaint can be sent for the Bank's information and monitoring to:pprocurementcomplaints@worldbank.org				

Résumé of the proposed Adjudicator.

BARRISTER HABIB ULLAH MASOOD

House# C6 Gulistan-e-Zafar, SMCHS Block B, Karachi, Sindh, 74450

Phone +923310332476

E-mail: habibullahmasood@hotmail.com

Qualification:

• LLM in International Business Law BPP University – London.

• Bar Professional Training Courses (BPTC)Trained as a Barrister at Society of Lincoln's Inn-London.

Representation:

- Legal Associate Abid S. Zuberi & Co, Karachi, Sindh
- Representing Legal Chambers of Mr. Abid S. Zuberi in various matters pertaining to Media Laws, Electric and Energy laws, land, company, commercial disputes and various constitutional matters.

Paralegal:

- MCAS & W Law Associate, Karachi, Sindh
- Drafted Suits/Petitions and legal agreements.
- Legal research in different areas of law which included Rent, land and service matters.
- Dealt with legal and commercial matters relating to the business and was responsible for SECP
- Compliance which included registration for new companies.
- Experienced in research, drafting agreements/contracts/suits/petitions and have written legal
- opinions in various matters.
- Have appeared regularly before subordinate courts and High Court of Sindh in cases in own
- capacity.

Membership:

- Society of Lincoln's Inn-London.
- Sindh Bar Council.
- Sindh High Court Bar Association.
- Karachi Bar Association.

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

(WITHOUT PREQUALIFICATION)

This Section contains all the criteria that the Purchaser shall use to evaluate Proposals and qualify Proposers. No other factors, methods or criteria shall be used. The Proposer shall provide all the information requested in the forms included in Section IV, Proposal Forms.

1. Qualification

1.1 Qualification Requirements

The Proposer's qualification shall be assessed in accordance with the Qualification table included in this section.

1.2 Financial Resources

Using the relevant Form, FIN 1.3.3 in Section IV, Proposal Forms, the Proposer must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet:

(i) the following cash-flow requirement:

and

(ii) the overall cash flow requirements for this contract and its current supply and services' commitment.

1.3 **Key Personnel**

The Proposer must demonstrate that it will have suitably qualified key personnel. The Proposer shall complete the relevant Forms in Section IV, Proposal Forms

1.4 Subcontractors/vendors/manufacturers

Subcontractors/vendors/manufacturers for major items of supply or services identified in the prequalification document must meet or continue to meet the minimum criteria specified therein for each item.

Subcontractors for the following additional major items of supply or services must meet the following minimum criteria, herein listed for that item:

Item No.	Description of Item	Minimum Criteria to be met	
1	Similar to the corresponding sections/forms		
2			
3			
•••			

Failure to comply with this requirement will result in the rejection of the subcontractor.

1.5 Manufacturer's authorization

For all powered (active) hardware and/or software components of the Information System which the Proposer does not itself produce, by submission of documentary evidence in its Proposal, the Proposer must establish to the Purchaser's satisfaction that it is not prohibited to supply those components in the Purchaser's country under the Contract(s) that may result from this procurement.

- (i) In the case of powered (active) hardware and other powered equipment, this must be documented by including Manufacturer's Authorizations in the Proposal (based on the sample found in the Sample Proposal Forms in Section IV.);
- (ii) In the case of proprietary commercial software (i.e., excluding open source or "freeware" software) that the Proposer does not manufacture itself and for which the Proposer has or will establish an Original Equipment Manufacturer (OEM) relationship with the manufacture, the Proposer must provide Manufacture's Authorizations:
- (iii) In the case of proprietary commercial software (i.e., excluding open source or "freeware" software) that the Proposer does not manufacture itself and for which the Proposer does not or will not establish an OEM relationship with the manufacturer, the Proposer must document to the Purchaser's satisfaction that the Proposer is not excluded from sourcing these items from the manufacturer's distribution channels and proposing offering these items for supply in the Borrower's Country.

(iv) In the case of open source software, the Proposer must identify the software item as open source and provide copies of the relevant open source license(s).

The Proposer is responsible for ensuring that the manufacturer or producer complies with the requirements of ITP 4 and ITP 5 and meets the minimum criteria listed above for that item.

1.6 Local Representative

In the case of a Proposer not doing business within the Purchaser's country, the Proposer shall submit documentary evidence in its Proposal to establish to the Purchaser's satisfaction that it is or will be (if awarded the Contract) represented by an agent in that country who is equipped and able to carry out / manage the Proposer's maintenance, technical support, training, and warranty repair obligations specified in the Purchaser's Requirements (including any response time, problem-resolution norms or other aspects that may be specified in the Contract).

2. Technical Evaluation

2.1 Assessment of adequacy of Technical Proposal with Requirements in accordance with ITP 32.1

Proposer must meet Purchaser's Technical Requirements for the System mentioned in <u>Section VII</u> prior to being considered for detailed technical evaluation by applying the scored technical factors/subfactors in accordance with <u>PDS ITP 32.2</u>

2.2 Technical Evaluation (ITP 32.2)

The technical features to be evaluated are generally defined below and specifically identified in the PDS (ITP 32.2)

The technical factors and sub factors and the corresponding scores are:

Sr.	Technical Factor	Weightage
No.		(%)
1.	Part – A Cloud Experience	40
2.	Part – B Product Techincal Strength	30
3.	Part – C Bidder/ Prinicpal's Support	20
4.	Part – D Implementation Plan and Project Management	10

1. PART – A: Cloud Experience

Weight of the Part - A in Technical Evaluation is 40% and Proposer's Score will be calculated using following formula:

Proposer's Score = (Marks Obtained by Proposer in Part -A / Total Max. Score of Part -A) * 40

Sr. No.	Requirement	Max. Marks	Required Document	Ref. Bid Page #
1.	The Bidder must have been experience of operating an OpenStack based Public Cloud service offering continuously since last five (05) year in Pakistan.	10	Documentary Evidence	
2.	The Bidder providing Public Cloud consulting services (with a perferable portfolio of relevant Public Cloud consulting of international engagements) for last five (05) years.	10	P.Os of the Consulting Services	
3.	The Bidder must hold a minimum of 30 certifications related to Public Cloud technologies such as Certified Cloud Practitioner, Certified Solutions Architect, Certified Cloud Security Professional. and for Private Cloud technologies such as, OpenStack Certified Administrator, Kubernetes certifications, or equivalent	15	Copy of Valid Certificate(s)	
4.	The Bidder must hold a minimum following certifications, 1) ISO 9001: 2015, 2) ISO 27001:2022 and 3) ISO 20000:2019 having one (01) mark, two (02) marks and two (02) marks respectively.	5	Copy of Valid Certificate(s)	
	Total Max. Score Part – A	40		

2. PART – B: Product Techincal Strength

Weight of the Part - B in Technical Evaluation is 30% and Proposer's Score will be calculated using following formula:

Proposer's Score = (Marks Obtained by Proposer in Part -B / Total Max. Score of Part -B) * 30

Sr. No.	Requirement	Max.	Required	Ref. Bid
		Marks	Document	Page #

1.	Functional, Architectural and Performance Requirements as specified in Specifications Section VII-Part C.	10	Bidder Technical Proposal	
2.	Service Specifications – Supply & Install Items in Technical as specified in Specifications Section VII-Part C.	10	Bidder Technical Proposal	
3.	Technology Specifications – Supply & Install Items as specified in Technical Specifications Section VII-Part D.	10	Bidder Technical Proposal	
Total Max. Score Part – B		30		

3. PART – C: Bidder/ Prinicpal's Support

Weight of the Part - C in Technical Evaluation is 20% and Proposer's Score will be calculated using following formula:

Proposer's Score = (Marks Obtained by Proposer in Part -C / Total Max. Score of Part -C) * 20

Sr. No.	Requirement	Max. Marks	Required Document	Ref. Bid Page #
1.	Dedicated Resoruces deputed to implement the required services and run O&M as in the Requirements of the Supplier's Technical Team of the RFP.	14	Certified PMP Project Manger= 3 Marks Certified Cloud Engineers= 3 Marks DEV OPS= 1 Marks Certified Database Specialist= 1 Marks Certified System Engineers= 2 Marks Certified Network Engineers= 1 Marks	CVs and Consent letter for availbility for this project from Proposed technical team

			System Integration & Migration Specialist= 1 Marks Hardware Engineers= 1 Marks NOC Support Staff= 1 Marks		
2.	Principal Support	2	Principal Direct Involvement in Project	Valid letter	OEM
		2	Private Cloud Stack Security maintenace and patching support by OEM (minimum 10 years)		
		2	Principal Tech / remote support		
	Total Max. Score Part – C	20			

4. PART – D: Implementation Plan and Project Management

Weight of the Part-D in Technical Evaluation is 10% and Proposer's Score will be calculated using following formula:

Proposer's Score = (Marks Obtained by Proposer in Part – D / Total Max. Score of Part – D) * 10

Sr. No.	Requirement	Max. Marks	Required Document	Ref. Bid Page #
1.	The Bidder must provide the project implementation plan (PIP) to meet the implementation schedule of the RFP	5	PIP	

2	The Bidder must provide the comprehansive technical support plan during and after implementation	2.5	Technical Support Plan
3	Training and Knowledge Transfer	2.5	Training and Knowledge Transfer Plan
	Total Max. Score Part – D	10	

Total Weight: 100

Technical proposal scoring methodology

- (a) During the evaluation process, the evaluation committee will assign each desirable/preferred feature a whole number score from 0 to 4, where 0 means that the feature is absent, and 1 to 4 either represent predefined values for desirable features amenable to an objective way of rating (as is the case for, e.g., extra memory, or extra mass storage capacity, etc., if these extras would be conducive for the utility of the system), or if the feature represents a desirable functionality (e.g., of a software package) or a quality improving the prospects for a successful implementation (such as the strengths of the proposed project staff, the methodology, the elaboration of the project plan, etc., in the proposal), the scoring will be 1 for the feature being present but showing deficiencies; 2 for meeting the requirements; 3 for marginally exceeding the requirements; and 4 for significantly exceeding the requirements.
- (b) The score for each feature (i) within a category (j) will be combined with the scores of features in the same category as a weighted sum to form the Category Technical Score using the following formula:

$$S_j \equiv \sum_{i=1}^k t_{ji} * w_{ji}$$

where:

 t_{ji} = the technical score for feature "i" in category "j"

 w_{ii} = the weight of feature "i" in category "j"

k = the number of scored features in category "j"

and
$$\sum_{i=1}^{\kappa} w_{ji} = 1$$

(c) The Category Technical Scores will be combined in a weighted sum to form the total Technical Proposal Score using the following formula:

$$T \equiv \sum_{j=1}^{n} S_j * W_j$$

where:

 S_j = the Category Technical Score of category "j"

 W_i = the weight of category "j" as specified in the PDS

n = the number of categories

and
$$\sum_{j=1}^{n} W_j = 1$$

3. Technical alternatives

If invited in accordance with ITP 13.4, will be evaluated as follows: "none"

4. Financial Evaluation

The following factors and methods will apply:

(a) Time Schedule:

The number of weeks, from the effective date specified in Article 3 of the Contract Agreement, to achieve Operational Acceptance must be no more than: <u>12 weeks</u>

A Proposal offering to achieve Operational Acceptance earlier than the maximum number of weeks: *shall* be given credit for proposal evaluation purposes. As given in the rated criteria.

(b) Recurrent Costs

Since the operation and maintenance of the system being procured form a major part of the implementation, the resulting recurrent costs will be evaluated according to the principles given hereafter, including the cost of recurrent cost items for the initial period of operation stated below, based on prices furnished by each Proposer in Price Schedule Nos. 3.3 and 3.5.

Recurrent cost items for post- warranty service period if subject to evaluation shall be included in the main contract or a separate contract signed together with the main contract.

Such costs shall be added to the Proposal price for evaluation.

Option 1: The recurrent cost factors for calculation of the implementation schedule are:

(i) number of years for implementation

- (ii) hardware maintenance
- (iii) software licenses and updates
- (iv) technical services
- (v) telecommunication services, and
- (vi) other services (if any).

The Recurrent Costs (R) are reduced to net present value and determined using the following formula:

$$R \square \int_{X=1}^{N} \frac{R}{(1+T)^{x}}$$

where

N = number of years of evaluated recurrent costs

 $x = \text{an index number } 1, 2, 3, \dots N.$

 R_x = total Recurrent Costs for year "x," as recorded in the Recurrent Cost Sub-Table.

I = discount rate to be used for the Net Present Value calculation, as specified in the PDS for ITP 39.1.

or Option 2: "none"

(c) Specific additional criteria

The relevant evaluation method, if any, shall be as follows: "Not Applicable"

5. Combined Evaluation

The Purchaser will evaluate and compare the Proposals that have been determined to be substantially responsive.

An Evaluated Proposal Score (B) will be calculated for each responsive Proposal using the following formula, which permits a comprehensive assessment of the evaluated cost and the technical merits of each Proposal:

$$B \equiv \frac{Clow}{C} * X * 100 + \frac{T}{Thigh} * (1 - X) * 100$$

where

C = Evaluated Proposal Price

 C_{low} = the lowest of all Evaluated Proposal Prices among responsive Proposals

T = the total Technical Score awarded to the Proposal

 T_{high} = the Technical Score achieved by the Proposal that was scored best among all responsive Proposals

X = weight for the Cost as specified in the PDS

The Proposal with the best evaluated Proposal Score (B) among responsive Proposals shall be the Most Advantageous Proposal provided the Proposer was prequalified and/or it was found to be qualified to perform the Contract

1. Qualification

	Factor		1.	1 Eligibi	LITY		
			Cri	teria			
				_	poser		
Sub-Factor		Requirement	Single Entity	Joint Ven All members combined	ture (existing or Each member	At least one member	Documentation Required
1.1	Nationality	Nationality in accordance with ITP 4.4.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Form ELI –1.1 and 1.2, with attachments
1.2	Conflict of Interest	No- conflicts of interests as described in ITP 4.2.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Proposal
1.3	Bank Ineligibility	Not having been declared ineligible by the Bank as described in ITP 4.5.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Proposal
1.4	State owned Entity of the Borrower country	Compliance with conditions of ITP 4.6	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Form ELI –1.1 and 1.2, with attachments

Factor	1.1 ELIGIBILITY							
		Cri	teria					
				poser				
Sub-Factor		Single Entity		ture (existing or	intended)	Documentation		
	Requirement		All members combined	Each member	At least one member	Required		
1.1.5 United Nations resolution or Borrower's country law	Not having been excluded as a result of prohibition in the Borrower's country laws or official regulations against commercial relations with the Proposer's country, or by an act of compliance with UN Security Council resolution, both in accordance with ITP 4.8.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Letter of Proposal		

Factor	1.2 HIST	TORICAL (CONTRAC	Γ NON-PE	RFORMAN	CE
Sub-Factor		С	riteria			
			Pro	poser		Documentation Required
Sub-ractor	Requirement		Joint Ven	ture (existing or	intended)	
	Kequii ement	Single Entity	All members combined	Each member	At least one member	
1.2.1 History of non- performing contracts	Non-performance of a contract ¹ did not occur as a result of Proposer's default since 1 st January 2021 .	Must meet requirement by itself or as member to past or existing JV	N/A	Must meet requirement ²	N/A	Form CON - 2
1.2.2 Suspension	Not under suspension based on execution of a Proposal Securing Declaration or Proposal Securing Declaration pursuant to ITP 4.7 and ITP 20.10	Must meet requirement	N/A	Must meet requirement	N/A	Letter of Proposal

¹ Nonperformance, as decided by the Purchaser, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Nonperformance shall not include contracts where Purchaser decision was overruled by the dispute resolution mechanism. Nonperformance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the applicant have been exhausted.

² This requirement also applies to contracts executed by the Applicant as JV member.

1.2.3 Pending Litigation	Proposer's financial position and prospective long-term profitability still sound according to criteria established in 2.3.1 below and assuming that all pending litigation will be resolved against the Proposer.	Must meet requirement by itself or as member to past or existing JV	N/A	Must meet requirement	N/A	Form CON – 2
1.2.4 Litigation History	No consistent history of court/arbitral award decisions against the Proposer ³ since 1 st January 2021.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Form CON – 2
1.2.5 Bank's SEA and/or SH Disqualification ⁴	At the time of Contract Award, not subject to disqualification by the Bank for non-compliance with SEA/ SH obligations	Must meet requirement (including each subcontractor proposed by the Proposer)	N/A	Must meet requirement (including each subcontractor proposed by the Proposer)	N/A	Letter of Proposal, Form CON-3

The Proposer shall provide accurate information on the related Letter of Proposal about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of awards against the Proposer or any member of a joint venture may result in failure of the Proposal.

Factor	1.3 FINANCIAL SITUATION					
		Cri	teria			
			Proj	poser		Documentation
Sub-Factor	Requirement		Joint Ven	ture (existing or	intended)	Required
	Requirement	Single Entity	All members combined	Each member	At least one member	
1.3.1 Historical Financial Performance	Submission of audited balance sheets or if not required by the law of the Proposer's country, other financial statements acceptable to the Purchaser, for the last five (05) years i.e. FY 2019-20 onwards to demonstrate the current soundness of the Proposers financial position and its prospective long-term profitability. For local firms, the audited financial statements should be issued by a firm with ICAP's satisfactory QCR rating, adhering to regulations. In case of international firms, audited statements describing the total monetary value of services performed for each of the last ten years in business, may be provided.	Must meet requirement	N/A	Must meet requirement	N/A	Form FIN – 1.3.1 with attachments

Factor	1.3 FINANCIAL SITUATION					
		Cri	teria			
			Proj	oser		Documentation
Sub-Factor	Paguiroment		Joint Vent	ture (existing or	intended)	Required
	Requirement Single Entity	All members combined	Each member	At least one member	-	
1.3.2 Average Annual Turnover	Minimum average annual turnover of USD 5 million calculated as total certified payments received for contracts in progress or completed, in the last 05 years i.e. FY 2019-20 onwards	Must meet requirement	Must meet requirement	At least 25% of the criteria	At least 50% of the criteria	Form FIN –1.3.2
1.3.3 Financial Resources	The Proposer must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet the following cash-flow requirement: US\$ 1.5 Million. Evidence of adequacy of working capital from any registered Bank along with authority to seek references from the Bank.	Must meet requirement	Must meet requirement	At least 25% of the criteria	At least 50% of the criteria	Form FIN –1.3.3

Factor							
	1.4 EXPERIENCE						
		Cr	iteria				
			Prop			Documentation	
Sub-Factor	Requirement		Joint Vent	ure (existing or	intended)	Required	
		Single Entity	All members combined	Each member	At least one member	_	
1.4.1 General Experience	Experience under Information System contracts in the role of prime supplier, management contractor, JV member, or subcontractor for at least the last 05 years, since 01st January 2020, prior to the applications submission deadline.	Must meet requirement	N/A	Must meet requirement	N/A	Form EXP-1.4.1	
1.4.2 Specific Experience	The Bidder shall demonstrate that it has successfully completed as a prime supplier, management contractor, JV member, subcontractor, in A. At least Single (01) contracts pertaining to Cloud Platform within the last five (05) years prior to bid submission deadline, with a value of at least US\$ 4.0 Million that have been successfully and substantially completed and that are similar to the proposed Information System.	Must meet requirement	Must meet requirements	N/A	N/A	Form EXP 1.4.2	

Factor							
	1.4 EXPERIENCE						
		Cri	teria				
			Propo	oser			
Sub-Factor	Requirement		Joint Ventu	are (existing or	intended)	Documentation Required	
		Single Entity	All members combined	Each member	At least one member		
	At least two (02) contracts pertaining to Cloud Platform within the last five (05) years prior to bid submission deadline, each with a value of at least US\$ 2.0 Million that have been successfully and substantially completed and that are similar to the proposed Information System. B. At least two (02) contracts pertaining to IT Equipment/ goods within the last five (05) years prior to bid submission deadline, each with a value of at least US\$ 2.0 Million that have been successfully and substantially completed and that are similar to the proposed Information System. Note: Definition of Similar Projects: For the purpose of this evaluation, a similar project refers						

Factor						
		1.	4 Experie	NCE		
		Cri	iteria			
			Prop	oser		
Sub-Factor	Requirement		Joint Vent	ure (existing or	intended)	Documentation Required
	_	Single Entity	All members combined	Each member	At least one member	
	to the design, deployment, and integration of product of quoted OEM or any other OEM but in both cases the product line must be same for each quoted. The proposed solution must comply with the Information Security Requirements outlined in the Pakistan Security Standards (PSS) for Cryptographic and IT Security Devices, where and when applicable.					
	The successfully completed similar contracts shall be documented by a copy of an Operational acceptance certificate (or equivalent documentation satisfactory to the Purchaser) issued by the purchaser(s).					

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Letter of Proposal- Technical Part

INSTRUCTIONS TO PROPOSERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

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

Note: All italicized text is to help Proposers in preparing this form.

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

RFP No.: [insert number of RFP process]

Alternative No.: [insert identification No if this is a Proposal for an alternative, otherwise state "not applicable"]

We, the undersigned, declare that:

To: [insert complete name of Purchaser]

- (a) **No reservations:** We have examined and have no reservations to the request for proposals document, including Addenda issued in accordance with Instructions to Proposers (ITP 8);
- (b) **Eligibility**: We meet the eligibility requirements and have no conflict of interest in accordance with ITP 4;
- (c) **Proposal-Securing Declaration:** We have not been suspended nor declared ineligible by the Purchaser based on execution of a Proposal-Securing Declaration or Proposal-Securing Declaration in the Purchaser's Country in accordance with ITP 4.7;
- (d) **Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH):** [select the appropriate option from (i) to (v) below and delete the others. In case of JV members and/or subcontractors, indicate the status of disqualification by the Bank of each JV member and/or subcontractor].

We, including any of our subcontractors:

- (i) [have not been subject to disqualification by the Bank for non-compliance with SEA/SH obligations.]
- (ii) [are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]
- (iii) [had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.]

- (e) **Conformity:** We offer to provide design, supply and installation services in conformity with the request for proposals document of the following: [insert a brief description of the IS Design, Supply and Installation Services];
- (f) **Proposal Validity:** Our Proposal shall be valid until [insert day, month and year in accordance with ITP 19.1], and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (g) **Performance Security:** If our Proposal is accepted, we commit to obtain a Performance Security in accordance with the request for proposals document;
- (h) **One Proposal Per Proposer:** We are not submitting any other Proposal(s) as an individual Proposer, and we are not participating in any other Proposal(s) as a Joint Venture member, and meet the requirements of ITP 4.3, other than alternative Proposals submitted in accordance with ITP 13;
- (i) **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 World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Purchaser's Country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- (j) 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 ITP 4.6];
- (k) Commissions, gratuities and fees: We have paid, or will pay the following commissions, gratuities, or fees with respect to the procurement process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]

Name of Recipient	Address	Reason	Amount

[If none has been paid or is to be paid, indicate "none."]

(l) **Binding Contract**: We understand that this Proposal, 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 lowest evaluated cost Proposal, the Most Advantageous Proposal or any other Proposal 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 Proposer: *[insert complete name of the Proposer]

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

Title of the person signing the Proposal: [insert complete title of the person signing the Proposal]

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

Date signed [insert number] day of [insert month], [insert year]

^{*:} In the case of the Proposal submitted by joint venture specify the name of the Joint Venture as Proposer

^{**:} Person signing the Proposal shall have the power of attorney given by the Proposer to be attached with the Proposal

FORM ELI 1.1.1- PROPOSER INFORMATION FORM

[Note: The Proposer 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 Proposal submission]
RFP No.: [insert number of Request for Proposals process]
Alternative No.: [insert identification No if this is a Proposal for an alternative] otherwise state "not applicable"
Pageofpag
1. Proposer's Name [insert Proposer's legal name]
2. In case of JV, legal name of each member : [insert legal name of each member in JV]
3. Proposer's actual or intended country of registration: [insert actual or intended country of registration]
4. Proposer's year of registration: [insert Proposer's year of registration]
5. Proposer's Address in country of registration: [insert Proposer's legal address in country of registration]
6. Proposer's Authorized Representative Information
Name: [insert Authorized Representative's name]
Address: [insert Authorized Representative's Address]
Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers]
Email Address: [insert Authorized Representative's email address]
7. Attached are copies of original documents of [check the box(es) of the attached original documents]
☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITP 4.4.
☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITP 4.1.
☐ In case of state-owned enterprise or institution, in accordance with ITP 4.6 documents establishing:
Legal and financial autonomy

- Operation under commercial law
- Establishing that the Proposer is not under the supervision of the Purchaser
- 8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. [The successful Proposer shall provide additional information on beneficial ownership, using the Beneficial Ownership Disclosure Form.]

FORM ELI 1.1.2- PROPOSER'S JV MEMBERS INFORMATION FORM

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

111	ne following table shall be filled in for the Proposer and for each member of a Joint Venture].
Date	e: [insert date (as day, month and year) of Proposal submission]
RFP	No.: [insert number of Request for Proposals process]
Alteı	rnative No.: [insert identification No if this is a Proposal for an alternative, otherwise state "not applicable"]
	Pageofpages
1.	Proposer's Name: [insert Proposer's legal name]
2.	Proposer's JV Member's name: [insert JV's Member legal name]
3.	Proposer's JV Member's country of registration: [insert JV's Member country of registration]
4.	Proposer's JV Member's year of registration: [insert JV's Member year of registration]
5.	Proposer's JV Member's legal address in country of registration: [insert JV's Member legal address in country of registration]
6.	Proposer's JV Member's authorized representative information
Na	ame: [insert name of JV's Member authorized representative]
A	ddress: [insert address of JV's Member authorized representative]
Те	elephone/Fax numbers: [insert telephone/fax numbers of JV's Member authorized representative]
Er	mail Address: [insert email address of JV's Member authorized representative]

7.	Attached are copies of original documents of [check the box(es) of the attached original documents]
	Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITP 4.4.
	In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and they are not under the supervision of the Purchaser in accordance with ITP 4.6.
8. Iı	ownership. [The successful Proposer shall provide additional information on beneficial ownership for each JV member using the Beneficial Ownership Disclosure Form.]

FORM CON – 2- HISTORICAL CONTRACT NON-PERFORMANCE, PENDING LITIGATION AND LITIGATION HISTORY

In case a prequalification process was conducted this form should be used only if the information submitted at the time of prequalification requires updating

Proposei	's Legal Name:	[insert Proposer's Legal Name]	
Date:	[insert	date]	
JV mem	ber Legal Name	e: [insert JV Member Legal Name]	
RFP No.	: [insert RFP i	number]	
		Page	ofpage
Non-Per Criteria	formed Contract	s in accordance with Section III, Evaluation and Qu	alification
	•	rmance did not occur since 1st January [insert year] sp Qualification Criteria, Sub-Factor 1.2.1.	pecified in Section
	` '	erformed since 1 st January [insert year] specifie alification Criteria, requirement 1.2.1	ed in Section III
Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and US\$ equivalent)
[insert year]	[insert amount and percentage]	Contract Identification: [indicate complete contract name/number, and any other identification]	[insert amount]
		Name of Employer: [insert full name]	
		Address of Employer: [insert street/city/country]	
		Reason(s) for nonperformance: [indicate main reason(s)]	
Pendi	ng Litigation, in	accordance with Section III, Evaluation and Qualific	cation Criteria
□ No	pending litigation	on in accordance with Sub-Factor 1.2.3.	
☐ Per	nding litigation in	n accordance with Sub-Factor 1.2.3 as indicated belo	w.

Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), USD Equivalent (exchange rate)
[specify year]	[specify amount and currency]	Contract Identification: [insert Contract ID] Name of Employer: [insert Name of Employer] Address of Employer: [insert Address of Employer] Matter in dispute: [describe Matter of dispute] Party who initiated the dispute: [specify Initiator of dispute] Status of dispute: [specify Status of dispute]	[specify total contract amount and currency, USD equivalent and exchange rate]
[specify year]	[specify amount and currency]	Contract Identification: [insert Contract ID] Name of Employer: [insert Name of Employer] Address of Employer: [insert Address of Employer] Matter in dispute: [describe Matter of dispute] Party who initiated the dispute: [specify Initiator of dispute] Status of dispute: [specify Status of dispute]	[specify total contract amount and currency, USD equivalent and exchange rate]
Litigation l	History in accor	dance with Section III, Evaluation and Quali	fication Criteria
□ No	Litigation Histo	ry in accordance with Sub-Factor 1.2.4.	
☐ Liti	gation History in	n accordance with Sub-Factor 1.2.4 as indicate	d below.
Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), USD Equivalent (exchange rate)
[specify year]	[specify percentage of net worth]	Contract Identification: [insert Contract ID] Name of Employer: [insert Name of Employer] Address of Employer: [insert Address of Employer]	[specify total contract amount and currency, USD equivalent and exchange rate]

FORM CON-3

SEXUAL EXPLOITATION AND ABUSE (SEA) AND/OR SEXUAL HARASSMENT PERFORMANCE DECLARATION

[The following table shall be filled in by the Proposer, each member of a Joint Venture and each subcontractor proposed by the Proposer]

Proposer's Name: [insert full name]

Date: [insert day, month, year]

Joint Venture Member's or Subcontractor's Name: [insert full name]

RFP No. and title: [insert RFP number and title]

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

SEA and/or SH Declaration		
in accordance with Section III, Qualification Criteria, and Requirements		
We:		
\square (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations		
\square (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations		
☐ (c) had been subject to disqualification by the Bank for non-compliance with SEA/SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.		
[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]		

FORM EXP 1.4.1- GENERAL EXPERIENCE

Proposer's Legal Name: [insert Proposer's Legal Name]

Date: [insert Date]

JV Member Legal Name: [insert JV Member Legal Name]

RFP No.: [insert **RFP number**]

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Startin g Month / Year	Ending Month / Year	Years	Contract Identification	Role of Proposer
[insert month/ year]	[insert month/ year]	[insert numbe r of years]	Contract name: [insert Name of Contract] Brief Description of the Information System performed by the Proposer: [describe Information System] Name of Purchaser: [insert Name of Purchaser] Address: [insert Address of Purchaser]	[describe role of Proposer under the contract]
[insert month/ year]	[insert month/ year]	[insert numbe r of years]	Contract name: [insert Name of Contract] Brief Description of the Information System performed by the Proposer: [describe Information System] Name of Purchaser: [insert Name of Purchaser] Address: [insert Address of Purchaser]	[describe role of Proposer under the contract]
[insert month/ year]	[insert month/ year]	[insert numbe r of years]	Contract name: [insert Name of Contract] Brief Description of the Information System performed by the Proposer: [describe Information System] Name of Purchaser: [insert Name of Purchaser] Address: [insert Address of Purchaser]	[describe role of Proposer under the contract]
[insert month/ year]	[insert month/ year]	[insert numbe r of years]	Contract name: [insert Name of Contract] Brief Description of the Information System performed by the Proposer: [describe Information System] Name of Purchaser: [insert Name of Purchaser] Address: [insert Address of Purchaser]	[describe role of Proposer under the contract]

^{*}List calendar year for years with contracts with at least nine (9) months activity per year starting with the earliest year

FORM EXP 1.4.2- SPECIFIC EXPERIENCE

Proposer's Legal Name:	[insert Proposer]	's Legal Name]
Date: [insert Date]		

JV Member Legal Name: [insert JV Member Legal Name]

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Similar Contract Number:of required.	Information		
Contract Identification	[insert Contract ID]		
Award date Completion date	[insert Date of Award [insert Date of Completion		
Role in Contract	Prime Supplier	Management Contractor	Subcontractor
Total contract amount		I	
If member in a JV or subcontractor, specify participation of total contract amount			
Purchaser's Name:			
Address: Telephone/fax number: E-mail:			

FORM EXP 1.4.2 (CONT.)- SPECIFIC EXPERIENCE (CONT.)

Proposer's Legal Name: [insert Proposer's Legal Name]

Date: [insert Date]

JV Member Legal Name: [insert JV Member Legal Name]

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Similar Contract No. [insert specific number] of [insert total number of contracts] required	Information
Description of the similarity in accordance with Sub-Factor 1.4.2 of Section III:	
Amount	[insert contract amount and currency and USD equivalent and exchange rate]
Geographical Scope	[describe geographic scope of the users of the information system]
Functional Scope	[describe the functionalities provided by the information system]
Methods/Technology	[describe methodologies and technologies used to implement the information system]
Key Activities	[describe the key activities of the Proposer under the contract]

FORM CCC-SUMMARY SHEET: CURRENT CONTRACT COMMITMENTS / WORK IN PROGRESS

[Proposers and each partner to a Joint Venture should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.]

Proposer's Legal Name:	[insert Prop	poser's Legal	Name]
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Date: [insert Date]

JV Member Legal Name: [insert JV Member Legal Name]

			Pageo	ofpages
Name of contract	Purchaser, contact address/tel./fax	Value of outstanding Information System (current US\$ equivalent)	Estimated completion date	Average monthly invoicing over last six months (US\$ equivalent/month)
1. [insert Name of Contract]	Purchaser,	Outstanding Contract Value of	[insert Estimated completion date]	[insert Average monthly invoices in USD equivalent and exchange rate]
2. [insert Name of Contract]	Purchaser,	Outstanding Contract Value of	[insert Estimated completion date]	[insert Average monthly invoices in USD equivalent and exchange rate]
3. [insert Name of Contract]	Purchaser,	Outstanding Contract Value of	[insert Estimated completion date]	[insert Average monthly invoices in USD equivalent and exchange rate]

FORM FIN 1.3.1- FINANCIAL SITUATION: HISTORICAL FINANCIAL PERFORMANCE

To be completed by the Proposer and, if JV, by each member

Proposer's Legal Name: [insert Proposer's Legal Name]	
Date: [insert Date]	
IV Member Legal Name: [insert IV Member Legal Name]	

RFP No.: [insert **RFP number**]

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Financial information in US\$ equivalent	Historic information for previous [insert number] years (US\$ equivalent in 000s)						
	Year 1	Year 2	Year 3	Year	Year n	Avg.	Avg. Ratio
		Infor	mation fron	n Balance Sh	eet		1
Total Assets (TA)							
Total Liabilities (TL)							
Net Worth (NW)							
Current Assets (CA)							
Current Liabilities (CL)							
		Inform	ation from l	Income State	ment		
Total Revenue (TR)							
Profits Before Taxes (PBT)							

Attached are copies of financial statements (balance sheets, including all related notes, and income statements) for the years required above complying with the following conditions:

- (a) Must reflect the financial situation of the Proposer or member to a JV, and not sister or parent companies
- (b) Historic financial statements must be audited by a certified accountant
- (c) Historic financial statements must be complete, including all notes to the financial statements

(d) Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted)

FORM FIN 1.3.2- AVERAGE ANNUAL TURNOVER

[To be completed by the Proposer and, if JV, by each member]

Proposer's Legal Name: [insert Proposer's Legal Name]

Date: [insert Date]

JV Member Legal Name: [insert JV Member Legal Name]

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Annual turnover data (applicable activities only)			
Year	Amount and Currency	US\$ equivalent	
[insert year]	[insert amount and currency]	[insert amount in USD equivalent and exchange rate]	
[insert year]	[insert amount and currency]	[insert amount in USD equivalent and exchange rate]	
[insert year]	[insert amount and currency]	[insert amount in USD equivalent and exchange rate]	
[insert year]	[insert amount and currency]	[insert amount in USD equivalent and exchange rate]	
[insert year]	[insert amount and currency]	[insert amount in USD equivalent and exchange rate]	
[insert year]	[insert amount and currency]	[insert amount in USD equivalent and exchange rate]	
*Average Annual Turnover	[insert amount and currency]	[insert amount in USD equivalent and exchange rate]	

^{*}Average annual turnover calculated as total certified payments received for work in progress or completed, divided by the number of years specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 1.3.2.

FORM FIN 1.3.3- FINANCIAL RESOURCES

To be completed by the Proposer and, if JV, by each member

Proposer's Legal Name	: [insert Proposer	's Legal Name]
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Date: [insert Date]

JV Member Legal Name: [insert JV Member Legal Name]

RFP No.: [insert **RFP number**]

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

Source of financing	Amount (US\$ equivalent)
1. [describe type and source of available financing]	[insert amount of available financing in USD equivalent and exchange rate]
2. [describe type and source of available financing]	[insert amount of available financing in USD equivalent and exchange rate]
3. [describe type and source of available financing]	[insert amount of available financing in USD equivalent and exchange rate]
4. [describe type and source of available financing]	[insert amount of available financing in USD equivalent and exchange rate]

PERSONNEL CAPABILITIES-KEY PERSONNEL

To be completed by the Proposer and, if JV, by each member

Proposer's Legal Name: [insert Proposer's Legal Name]

Date: [insert Date]

JV Member Legal Name: [insert JV Member Legal Name]

RFP No.: [insert **RFP number**]

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Proposers should provide the names and details of the suitably qualified Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Key Personnel

1.	Title of position:	[insert Title of position / role in team]			
	Name of candidate	Name of candidate: [insert Name of Candidate]			
	Duration of appointment:	[insert the whole period (start and end dates) for which this position will be engaged]			
	Time commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]			
	_	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]			
2. Title of position: [insert Title		[insert Title of position / role in team]			
	Name of candidate: [insert Name of Candidate]				
	Duration of appointment:	[insert the whole period (start and end dates) for which this position will be engaged]			
	Time commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]			
	-	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]			

3.	Title of position: ([Include as required]	Cyber security Expert/s red]	
	Name of candidate: [insert Name of Candidate]		
	Duration of appointment:	[insert the whole period (start and end dates) for which this position will be engaged]	
	Time commitment: for this position:	[insert the number of days/week/months/ that has been scheduled for this position]	
	_	[insert the expected time schedule for this position (e.g. attach high level Gantt chart]	

Candidate Summary

To be completed by the Proposer and, if JV, by each member

Proposer's Legal Name: [insert Proposer's Legal Name]

Date: [insert Date]

JV Member Legal Name: [insert JV Member Legal Name]

RFP No.: [insert RFP number]

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Position; [ins	ert Title of Position]	Prime	
Candidate information	Name of candidate [insert Name Candidate]	Date of birth [insert Date of Birth]	
	Professional qualifications [describe Professional qualifications]		
Present employment	Name of Employer [insert Name of Present Employer]		
	Address of Employer [insert Address of F	Present Employer]	
	Telephone [insert Telephone of Contact]	Contact (manager / personnel officer) [insert Name]	
	Fax [insert fax of Contact]	email [insert email of Contact]	
	Job title of candidate [insert Job Title Candidate]	Years with present Employer [insert Number of years]	

Summarize professional experience over the last twenty years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	То	Company/Project/ Position/Relevant technical and management experienc
[insert year]	[insert year]	[describe experience relevant to the proposed Contract under th RFP]
[insert year]	[insert year]	[describe experience relevant to the proposed Contract under th RFP]
[insert year]	[insert year]	[describe experience relevant to the proposed Contract under th RFP]
[insert year]	[insert year]	[describe experience relevant to the proposed Contract under the RFP]

CODE OF CONDUCT FOR SUPPLIER'S PERSONNEL FORM

Note to the Purchaser:

The following minimum requirements shall not be modified. The Purchaser may add additional requirements to address identified issues, informed by relevant environmental and social assessment.

Delete this Box prior to issuance of the Request for Proposals document.

Note to the Proposer:

The minimum content of the Code of Conduct form as set out by the Purchaser shall not be substantially modified. However, the Proposer may add requirements as appropriate, including to take into account Contract-specific issues/risks.

The Proposer shall initial and submit the Code of Conduct form as part of its proposal.

CODE OF CONDUCT FOR SUPPLIER'S PERSONNEL

We are the Supplier, [enter name of Supplier]. We have signed a contract with [enter name of Purchaser] for [enter description of the Information System]. The Information System will be supplied to and installed at [enter the Project Site/s]. Our contract requires us to implement measures to address environmental and social risks.

This Code of Conduct identifies the behavior that we require from Supplier's Personnel employed in the execution of the Contract at the Project Site/s.

Our workplace is an environment where unsafe, offensive, abusive or violent behavior will not be tolerated and where all persons should feel comfortable raising issues or concerns without fear of retaliation.

REQUIRED CONDUCT

Supplier's Personnel employed in the execution of the Contract at the Project Site/s shall:

- 1. carry out his/her duties competently and diligently;
- 2. comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Supplier's Personnel and any other person;
- 3. maintain a safe working environment including by:

- a. ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
- b. wearing required personal protective equipment;
- c. using appropriate measures relating to chemical, physical and biological substances and agents; and
- d. following applicable emergency operating procedures.
- 4. report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and serious danger to his/her life or health;
- 5. treat other people with respect, and not discriminate against specific groups such as women, people with disabilities, migrant workers or children;
- 6. not engage in any form of sexual harassment including unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature with other Supplier's or Purchaser's Personnel;
- 7. not engage in Sexual Exploitation, which means any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;
- 8. not engage in in Sexual Abuse, which means the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
- 9. not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
- 10. complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, and Sexual Exploitation and Abuse, and Sexual Harassment (SH);
- 11. report violations of this Code of Conduct; and
- 12. not retaliate against any person who reports violations of this Code of Conduct, whether to us or the Purchaser, or who makes use of the grievance mechanism for Supplier's Personnel or the project's Grievance Redress Mechanism.

RAISING CONCERNS

If any person observes behavior that he/she believes may represent a violation of this Code of Conduct, or that otherwise concerns him/her, he/she should raise the issue promptly. This can be done in either of the following ways:

1. Contact [enter name of the Supplier's Social Expert with relevant experience in handling sexual exploitation, sexual abuse and sexual harassment cases, or if such person is not required under the Contract, another individual designated by the Supplier to handle these matters] in writing at this address [] or by telephone at [] or in person at []; or

2. Call [] to reach the Supplier's hotline (if any) and leave a message.

The person's identity will be kept confidential, unless reporting of allegations is mandated by the country law. Anonymous complaints or allegations may also be submitted and will be given all due and appropriate consideration. We take seriously all reports of possible misconduct and will investigate and take appropriate action. We will provide warm referrals to service providers that may help support the person who experienced the alleged incident, as appropriate.

There will be no retaliation against any person who raises a concern in good faith about any behavior prohibited by this Code of Conduct. Such retaliation would be a violation of this Code of Conduct.

CONSEQUENCES OF VIOLATING THE CODE OF CONDUCT

Any violation of this Code of Conduct by the Supplier's Personnel may result in serious consequences, up to and including termination and possible referral to legal authorities.

FOR SUPPLIER'S PERSONNEL:

I have received a copy of this Code of Conduct written in a language that I comprehend. I understand that if I have any questions about this Code of Conduct, I can contact [enter name of Supplier's contact person(s) with relevant experience] requesting an explanation.

Name of Supplier's Personnel: [insert name]
Signature:
Date: (day month year): [insert date]
Countersignature of authorized representative of the Supplier:
Signature:
Date: (day month year): [insert date]

ATTACHMENT 1: Behaviors constituting SEA and behaviors constituting SH

ATTACHMENT 1 TO THE CODE OF CONDUCT FORM

BEHAVIORS CONSTITUTING SEXUAL EXPLOITATION AND ABUSE (SEA) AND BEHAVIORS CONSTITUTING SEXUAL HARASSMENT (SH)

The following non-exhaustive list is intended to illustrate types of prohibited behaviors.

(1) **Examples of sexual exploitation and abuse** include, but are not limited to:

- A Supplier's Personnel tells a member of the community that he/she can get them jobs related to the project site in exchange for sex.
- A Supplier's Personnel rapes, or otherwise sexually assaults a member of the community.
- A Supplier's Personnel denies a person access to the Project Site/s unless he/she performs a sexual favor.
- A Supplier's Personnel tells a person applying for employment under the Contract that he/she will only hire him/her if he/she has sex with him/her.

(2) Examples of sexual harassment in a work context

- A Supplier's Personnel comment on the appearance of another Supplier's Personnel (either positive or negative) and sexual desirability.
- When a Supplier's Personnel complains about comments made by another Supplier's Personnel on his/her appearance, the other Supplier's Personnel comment that he/she is "asking for it" because of how he/she dresses.
- Unwelcome touching of a Supplier's Personnel or Purchaser's Personnel by another Supplier's Personnel.
- A Supplier's Personnel tells another Supplier's Personnel that he/she will get him/her a salary raise, or promotion if he/she sends him/her naked photographs of himself/herself.

TECHNICAL CAPABILITIES

[Note: To be completed by the Proposer and, if JV, by each member]

Proposer's Legal Name: [insert Proposer's Legal Name]

Date: [insert Date]

JV Member Legal Name: [insert JV Member Legal Name]

RFP No.: [insert **RFP number**]

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The Proposer shall provide adequate information to demonstrate clearly that it has the technical capability to meet the requirements for the Information System. The Proposer should summarize important certifications, proprietary methodologies, and/or specialized technologies that the Proposer proposes to utilize in the execution of the Contract or Contracts.

MANUFACTURER'S AUTHORIZATION

[Note: This authorization should be written on the letterhead of the Manufacturer and be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Invitation for Proposals Title and No.: [Purchaser insert: RFP Title and Number]

To: [Purchaser insert: Purchaser's Officer to receive the Manufacture's Authorization]

WHEREAS [insert: Name of Manufacturer] who are official producers of [insert: items of supply by Manufacturer] and having production facilities at [insert: address of Manufacturer] do hereby authorize [insert: name of Proposer or Joint Venture] located at [insert: address of Proposer or Joint Venture] (hereinafter, the "Proposer") to submit a proposal and subsequently negotiate and sign a Contract with you for resale of the following Products produced by us:

We hereby confirm that, in case the request for proposals process results in a Contract between you and the Proposer, the above-listed products will come with our full standard warranty.

Name [insert: Name of Officer]	in the capacity of [insert: Title of Officer]
Signed	
Duly authorized to sign the authomanufacturer]	prization for and on behalf of: [insert: Name of
Dated this [insert: ordinal] day of	[insert: month], [insert: year].
[add Corporate Seal (where approp	riate)]

SUBCONTRACTOR'S AGREEMENT

Note: This agreement should be written on the letterhead of the Subcontractor and be signed by a person with the proper authority to sign documents that are binding on the Subcontractor.

Invitation for Proposals Title and No.: [Purchaser insert: RFP Title and Number]

To: [Purchaser insert: Purchaser's Officer to receive the Subcontractor's Agreement]

WHEREAS [insert: Name of Subcontractor], having head offices at [insert: address of Subcontractor], have been informed by [insert: name of Proposer or Joint Venture] located at [insert: address of Proposer or Joint Venture] (hereinafter, the "Proposer") that it will submit a proposal in which [insert: Name of Subcontractor] will provide [insert: items of supply or services provided by the Subcontractor]. We hereby commit to provide the above named items, in the instance that the Proposal is awarded the Contract.

Name [insert: Name of Officer] in the capacity of [insert: Title of Officer]
Signed
Duly authorized to sign the authorization for and on behalf of: [insert: Name of Subcontractor]
Dated this [insert: ordinal] day of [insert: month], [insert: year].
[add Corporate Seal (where appropriate)]

List of Proposed Subcontractors

Item	Proposed Subcontractor	Place of Registration & Qualifications

INTELLECTUAL PROPERTY FORMS

Notes to Proposers on working with the Intellectual Property Forms

In accordance with ITP 11.1(j), Proposers must submit, as part of their proposals, lists of all the Software included in the proposal assigned to one of the following categories: (a) System, General-Purpose, or Application Software; (b) Standard or Custom Software; (c) Proprietary or Open Source. Proposers must also submit a list of all Custom Materials. These categorizations are needed to support the Intellectual Property in the GCC and SCC. The Proposer must also include the text of the software licenses for the software titles proposed.

Software List

	(sel	ect one per	title)	(select one per title)		(select one per title)	
Title	System	General- Purpose	Application	Standard	Custom	Proprietary	Open Source
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							

Attachments: Proposed Software Licenses

List of Custom Materials

Custom Materials				
[insert Title and description]				
[insert Title and description]				
[insert Title and description]				
[insert Title and description]				
[insert Title and description]				

CONFORMANCE OF INFORMATION SYSTEM MATERIALS

Format of the Technical Proposal

In accordance with ITP 16.2, the documentary evidence of conformity of the Information System to the request for proposals documents includes (but is not restricted to):

- (a). The Proposer's Preliminary Project Plan, including, but not restricted, to the topics specified in the PDS ITP 16.2. The Preliminary Project Plan should also state the Proposer's assessment of the major responsibilities of the Purchaser and any other involved third parties in System supply and installation, as well as the Proposer's proposed means for coordinating activities by each of the involved parties to avoid delays or interference.
- (b). A written confirmation by the Proposer that, if awarded the Contract, it shall accept responsibility for successful integration and interoperability of all the proposed Information Technologies included in the System, as further specified in the Technical Requirements.
- (c). Item-by-Item Commentary on the Technical Requirements demonstrating the substantial responsiveness of the overall design of the System and the individual Information Technologies, Goods, and Services offered to those Technical Requirements.

In demonstrating the responsiveness of its proposal, the Proposer must use the Technical Responsiveness Checklist (Format). Failure to do so increases significantly the risk that the Proposer's Technical Proposal will be declared technically non-responsive. Among other things, the checklist should contain explicit cross-references to the relevant pages in supporting materials included the Proposer's Technical Proposal.

Note: The Technical Requirements are voiced as requirements of the *Supplier* and/or the *System*. The Proposer's response must provide clear evidence for the evaluation team to assess the credibility of the response. A response of "yes" or "will do" is unlikely to convey the credibility of the response. The Proposer should indicate *that* – and to the greatest extent practical – *how* the Proposer would comply with the requirements if awarded the contract. Whenever the technical requirements relate to feature(s) of existing products (e.g., hardware or software), the features should be described and the relevant product literature referenced. When the technical requirements relate to professional services (e.g., analysis, configuration, integration, training, etc.) some effort should be expended to describe how they would be rendered – not just a commitment to perform the [cut-and-paste] requirement. Whenever a technical requirement is for the Supplier to provide certifications (e.g., ISO 9001), copies of these certifications must be included in the Technical Proposal.

Note: As required in PDS 11.2 (j), include method statement, management strategies and implementation plans and innovations, to manage cyber security risks.

- **Note:** The Manufacture's Authorizations (and any Subcontractor Agreements) are to be included in Attachment 2 (Proposer Qualifications), in accordance with and ITP 15.
- **Note**: As a matter of practice, the contract cannot be awarded to a Proposer whose Technical Proposal deviates (materially) from the Technical Requirements *on any Technical Requirement*. Such deviations include omissions (e.g., non-responses) and responses that do not meet or exceed the requirement. Extreme care must be exercised in the preparation and presentation of the responses to all the Technical Requirements.
- (d). Supporting materials to underpin the Item-by-item Commentary on the Technical Requirements (e.g., product literature, white-papers, narrative descriptions of technical approaches to be employed, etc.). In the interest of timely proposal evaluation and contract award, Proposers are encouraged not to overload the supporting materials with documents that do not directly address the Purchaser's requirements.
- (e). Any separate and enforceable contract(s) for Recurrent Cost items which the PDS ITP 17.2 required Proposers to propose.

Note: To facilitate proposal evaluation and contract award, Proposers encouraged to provide electronic copies of their Technical Proposal – preferably in a format that the evaluation team can extract text from to facilitate the proposal clarification process and to facilitate the preparation of the Proposal Evaluation Report.

Technical Responsiveness Checklist (Format)

Tech.	Technical Requirement:					
Require. No.	[insert: abbreviated description of Requirement]					
Proposer's technical reasons supporting compliance:						
Proposer's cross referen	Proposer's cross references to supporting information in Technical Proposal:					

[Note to the Purchaser: The Technical Responsiveness tables submitted by each Proposer can help structure the Purchaser's technical evaluation. In particular, the Purchaser can append rows to each of the Proposer's submitted responsiveness tables to record the Purchaser's assessment of the compliance, partial compliance, and non-compliance of the Proposer's response to the specific Technical Requirement — including the Purchaser's rationale for its conclusion (including, as appropriate, clear indications of the gaps in the Proposer's response/supporting documentation). These assessments can provide a standardized presentation of the detailed underlying logic of the Purchaser's final assessment of the responsiveness / non-responsiveness of the Proposer's technical proposal. Typically, the detailed response/assessment tables would appear as an attachment to the Proposal Evaluation Report].

FORM OF PROPOSAL SECURITY (BANK GUARANTEE)

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

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: [Purchaser to insert its name and address]

RFP No.: [Purchaser to insert reference number for the RFP]

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

Date: [Insert date of issue]

PROPOSAL GUARANTEE No.: [Insert guarantee reference number]

We have been informed that [insert name of the Proposer, 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 the Beneficiary its proposal (hereinafter called "the Proposal") for the execution of [insert Name of Contract] under Request for Proposals No. [insert number] ("the RFP").

Furthermore, we understand that, according to the Beneficiary's, Proposals must be supported by a Proposal guarantee.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures ([insert amount in words)]* 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 the demand, stating that either the Applicant:

- (a) has withdrawn its Proposal prior to the Proposal validity expiry date set forth in the Applicant's Letter of Proposal, or any extended date provided by the Applicant; or
- (b) having been notified of the acceptance of its Proposal by the Beneficiary prior to the expiry date of the Proposal validity or any extension thereof provided by the Applicant has failed to: (i) execute the Contract Agreement, if required, or (ii) furnish the performance security, in accordance with the Instructions to Proposers ("ITP") of the Beneficiary's request for proposals document.

This guarantee will expire: (a) if the Applicant is the successful Proposer, 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 Proposer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the request for proposals process; or (ii) twenty-eight days after the expiry date of the Proposal validity.

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

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

[signature(s)]

Letter of Proposal - Financial Part

INSTRUCTIONS TO PROPOSERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

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

<u>Note</u>: All italicized text is to help Proposers in preparing this form.

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

Request for Proposal No.: [insert identification]

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

To: [insert complete name of Purchaser]

We, the undersigned, hereby submit the second part of our Proposal, the Proposal Price and Priced Activity Schedule. This accompanies the Letter of Proposal- Technical Part.

In submitting our Proposal, we make the following additional declarations:

- (a) **Proposal Validity**: Our Proposal shall be valid until [insert day, month and year in accordance with ITP 19.1], and it shall remain binding upon us and may be accepted at any time on or before this date;
- (b) **Total Price**: The total price of our Proposal, excluding any discounts offered in item (c) below is: [Insert one of the options below as appropriate]

[Option 1, in case of one lot:] Total price is: [insert the total price of the Proposal in words and figures, indicating the various amounts and the respective currencies];

Or

[Option 2, in case of multiple lots:] (a) Total price of each lot [insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]; and (b) Total price of all lots (sum of all lots) [insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies];

- (c) **Discounts:** The discounts offered and the methodology for their application are:
 - (i) The discounts offered are: [Specify in detail each discount offered]
 - (ii) The exact method of calculations to determine the net price after application of discounts is shown below: [Specify in detail the method that shall be used to apply the discounts];
- (d) **Commissions,** gratuities **and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the procurement process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity].

Name of Recipient	Address	Reason	Amount

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

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

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

Title of the person signing the Proposal: [insert complete title of the person signing the Proposal]

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 Proposal submitted by a Joint Venture specify the name of the Joint Venture as Proposer.

^{**:} Person signing the Proposal shall have the power of attorney given by the Proposer. The power of attorney shall be attached with the Proposal Schedules

PRICE SCHEDULE FORMS

Notes to Proposers on working with the Price Schedules

General

- 1. The Price Schedules are divided into separate Schedules as follows:
 - 3.1 Grand Summary Cost Table
 - 3.2 Supply and Installation Cost Summary Table
 - 3.3 Recurrent Cost Summary Table
 - 3.4 Supply and Installation Cost Sub-Table(s)
 - 3.5 Recurrent Cost Sub-Tables(s)
 - 3.6 Country of Origin Code Table

[insert: any other Schedules as appropriate]

- 2. 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 Proposers shall have read the Technical Requirements and other sections of these request for proposals 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.
- 3. If Proposers are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with the Instructions to Proposers in the request for proposals documents prior to submitting their proposal.

Pricing

- 4. Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Proposer. As specified in the Proposal Data Sheet, prices shall be fixed and firm for the duration of the Contract.
- 5. Proposal prices shall be quoted in the manner indicated and in the currencies specified in ITP 18.1 and ITP 18.2. Prices must correspond to items of the scope and quality defined in the Technical Requirements or elsewhere in these request for proposals documents.
- 6. The Proposer must exercise great care in preparing its calculations, since there is no opportunity to correct errors once the deadline for submission of proposals has passed. A single error in specifying a unit price can therefore change a Proposer's overall total proposal price substantially, make the proposal noncompetitive, or subject the Proposer to possible loss. The Purchaser will correct any arithmetic error in accordance with the provisions of ITP 32.
- 7. Payments will be made to the Supplier in the currency or currencies indicated under each respective item. As specified in ITP 18.2, no more than three foreign currencies may be used.

3.1 Grand Summary Cost Table

		[insert: Local Currency] Price	[insert: Foreign Currency A] Price	[insert: Foreign Currency B] Price	[insert: Foreign Currency C] Price
1.	Infrastructure Node				
2.	Control Node				
3	Compute Node				
4.	All Flash Enterprise Storage				
5.	Scale-Out Network NAS Storage				
6.	Cloud with Security				
7.	Data Consistency Software				
8.	Router				
9.	Firewall				
10.	Core Switches				
11.	Distribution Switches				
12.	Software				
13.	Connectivity				
14.	Co-location Services				

		[insert: Local Currency] Price	[insert: Foreign Currency A] Price	-	[insert: Foreign Currency C] Price
15.	Support, maintenance, warranty and service level agreement:				
16.	High-level diagram and report for establishment of co-location / cloud services of it infrastructure at primary and backup site:				
17.	Recurrent Costs (from Recurrent Cost Summary Table)				
18.	Grand Totals (to Proposal Submission Form)				

	Name of Proposer:
	Authorized Signature of Proposer:

3.2 Supply and Installation Cost Summary Table

Costs MUST reflect prices and rates quoted in accordance with ITP 17 and 18.

			Supply & Installation Prices						
			Locally supplied items	Items suppli	ied from outside the Purchaser's Country				
Line Item No.	Subsystem / Item	Quantity	[insert: Local Currency] Price	[insert: Local Currency] Price	[insert: Foreign Currency A] Price	[insert: Foreign Currency B] Price	[insert: Foreign Currency C] Price		
1.	Infrastructure Node	Refer BoQ							
2.	Control Node	(Section-VII)							
3.	Compute Node	-							
4.	All Flash Enterprise Storage								
5.	Scale-Out Network NAS Storage	-							
6.	Cloud with Security								
7.	Data Consistency Software								
8.	Router	-							
9.	Firewall	-							
10.	Core Switches								
11.	Distribution Switches								

			Supply & Installation Prices						
			Locally supplied items	Items suppli	ied from outside the Purchaser's Country				
Line Item No.	Subsystem / Item	Quantity	[insert: Local Currency] Price	[insert: Local Currency] Price	[insert: Foreign Currency A] Price	[insert: Foreign Currency B] Price	[insert: Foreign Currency C] Price		
12.	Software								
13.	Connectivity								
14.	Co-location Services								
15.	Support, maintenance, warranty and service level agreement:								
16.	High-level diagram and report for establishment of co-location / cloud services of it infrastructure at primary and backup site:								
	SUBTOTALS								
	TOTAL (To Grand Summary	Table)							

Note:
-- indicates not applicable. "Indicates repetition of table entry above. Refer to the relevant Supply and Installation Cost Sub-Table for the specific components that constitute each Subsystem or line item in this summary table

Name of Proposer:	

Authorized Signature of Proposer:	

3.3 Recurrent Cost Summary Table

Costs MUST reflect prices and rates quoted in accordance with ITP 17 and ITP 18.

Line Item No.	Subsystem / Item	Recurrent Cost Sub- Table No.	[insert: Local Currency] Price	[insert: Foreign Currency A] Price	[insert: Foreign Currency B] Price	[insert: Foreign Currency C] Price
Y	Recurring Charges (up to May, 2026)					
	Subtotals (to Grand Summary Tal	ble)				

Note: Refer to the relevant Recurrent Cost Sub-Tables for the specific components that constitute the Subsystem or line item in this summary table.

Name of Proposer:	
Authorized Signature of Proposer:	

3.4 Supply and Installation Cost Sub-Table [insert: identifying number]

Line item number: [specify: relevant line item number from the Supply and Installation Cost Summary Table (e.g., 1.1)]

Prices, rates, and subtotals MUST be quoted in accordance with ITP 17 and ITP 18.

					Unit Prices / Rates					Total Prices			
				Supplied Locally	Supplied from outside the Purchaser's Country			Supplied Locally	Suppli		tside the Pur untry	chaser's	
Component No.	_	Country of Origin Code	Quan- tity	[insert: local currency]	[insert: local currency]	[insert: foreign currency A]	[insert foreign currency B]	[insert: foreign currency C]	[insert: local currency]	[insert: local currency]	[insert: foreign currency A]	[insert: foreign currency B]	[insert: foreign currency C]
X.1													
Subtotals	Subtotals (to [insert: line item] of Supply and Installation Cost Summary Table)												

Note: -- indicates not applicable.

Name of Proposer:	
Authorized Signature of Proposer:	

3.5 Recurrent Cost Sub-Table [insert: identifying number] -- Warranty Period

Lot number: [if a multi-lot procurement, insert: lot number, otherwise state "single lot procurement"]

Line item number: [specify: relevant line item number from the Recurrent Cost Summary Table -(e.g., y.1)]

Currency: [specify: the currency of the Recurrent Costs in which the costs expressed in this Sub-Table are expressed]

[As necessary for operation of the System, specify: the detailed components and quantities in the Sub-Table below for the line item specified above, modifying the sample components and sample table entries as needed. Repeat the Sub-Table as needed to cover each and every line item in the Recurrent Cost Summary Table that requires elaboration.]

Costs MUST reflect prices and rates quoted in accordance with ITP 17 and ITP 18.

Component No.	Component	Y1	Sub-total for [insert: currency]
1.	Hardware Maintenance	Incl. in Warranty	
2.	Software Licenses & Updates	Incl. in Warranty	
2.1	System and General- Purpose Software	Incl. in Warranty	
2.2	Application, Standard and Custom Software	Incl. in Warranty	
3.	Technical Services		
3.1	Sr. Systems Analyst		
3.2	Sr. Programmer		

Component No.	Component	Y1	Sub-total for [insert: currency]
3.3	Sr. Network Specialist, etc.		
4.	Telecommunications costs [to be detailed]		
5.	[Identify other recurrent costs as may apply]		
	Annual Subtotals:		
			·

Name of Proposer:	
Authorized Signature of Proposer:	

3.6 Country of Origin Code Table

Country of Origin	Country Code	Country of Origin	Country Code	Country of Origin	Country Code

SECTION V - ELIGIBLE COUNTRIES

Eligibility for the Provision of Information System

In reference to ITP 4.8 and ITP 5.1, for the information of the Proposers, at the present time firms and information systems from the following countries are excluded from this procurement process:

Under ITP 4.8(a) and ITP 5.1: "None"

Under ITP 4.8(b) and ITP 5.1: "None".

SECTION VI - FRAUD AND CORRUPTION

(Section VI shall not be modified)

1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
 - i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

v. "obstructive practice" is:

- (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
- (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.
- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-

- contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti-Corruption Guidelines, and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner; (ii) to be a nominated sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents, personnel, permit the Bank to inspect³ all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated subcontractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

² A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

PART 2 – PURCHASER'S REQUIREMENTS

SECTION VII - REQUIREMENTS OF THE INFORMATION SYSTEM

(INCLUDING TECHNICAL REQUIREMENTS, IMPLEMENTATION SCHEDULE, SYSTEM INVENTORY TABLES, BACKGROUND AND INFORMATIONAL MATERIALS)

Technical Requirements

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C.	Service Specifications – Supply & Install Items	150
	2.2. System Integration (to other existing systems)	
D.	Technology Specifications – Supply & Install Items	156
	3.0Technical Requirements Bidders must state clearly in their Bid how the proposed solution meets the following requirements where M are Mandatory and D are Desired M = Mandatory D = Desired NC = Non-compliant All Mandatory ("M") clauses must be met in full. Failure to comply with any Mandator will result in the bid being deemed non-compliant and lead to disqualification. From the complex of the complex o	156 technical 156 156 156 156 ory clause or Desired 156 156 156 156 156 156 156 156 156 156
	RHEL, SLES, VMware, Windows Virtualization technologies: VMware vSphere, RH and Microsoft Hyper-V.	
	D 156 4 156 Memory	

$256\ GiB\ using\ RDIMM\ DDR5\ speed\ up\ to\ 6400\ MT/s\ supported\ 8\ TiB\ max.$ or higher later than the support of the su	156
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Internal Disks	56
Server should support at least 8 x 2.5-inch NVMe E3s/ Universal drive bays or higher values best practices 4 x 2.4TB (12G SAS) RAID controller with 8GB or Higher Cache Flash drives	Supports
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VGA interface	157
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Management LAN	
NIC ports 1 x 1Gb RJ45	157
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Management	
Support of built-in intelligent management interface with Enterprise license enabling C	OOB
management with a capability along with management software. Management enshould be able to integrate with 3rd party management software's as well	
D 157	
Software should support dashboard view to quickly scan the managed resources to asse	ess the
overall health of the data center. It should provide an at-a-glance visual health sun	
the resource's user is authorized to view.	-
D 157	-
The Dashboard minimum should display a health summary of the following: • Server Pr	rofiles •
Server Hardware • Appliance alerts	
D 157	,

Management software should support integration with popular virtualization platform management software like VMware vCenter & vRealize Operations, Microsoft Center & Admin Center, OpenStack and RHEL OpenShift	System
D 157 Should help provide proactive notification of actual or impending component failure a critical components like CPU, Memory and HDD	
M 157	. 137
Should help to proactively identify out-of-date BIOS, drivers, and Server Managemen	nt agents and
enable the remote update of system software/firmware components	
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Assign IP address and modify password, configure key BIOS attributes, and take remactions as needed	
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with cryptographically verified hardware integrity	
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The bidder is required to provide servers and storage from the same original equipme	
manufacturer (OEM). All supplied must be new, genuine, sourced through authorized through a through	
distribution channels. Refurbished, used, or grey-market equipment will not be a	
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5 X CONTROL NODE (3 X PRIMARY AND 2 X BACKUP SITE)	
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Parameters	

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1U Form Factor -Optimized.	
M 158	
2 158	
Processor	158
2 x Intel Xeon 6th Generation Performance Processor with 2.4 Ghz 16 Cores support of	
cores or higher	
M 158	
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OS Support	158
RHEL, SLES, VMware, MS Windows and Virtualization technologies: VMware vSph	
RHEV, KVM and Microsoft Hyper-V.	
D 158	130
4 158	
Memory	150
256 GiB using RDIMM DDR5 speed up to 6400 MT/s supported 8 TiB max or higher	
M 158	130
5 158	
Internal Disks	150
Server should support at least 8 x 2.5-inch NVMe E3s/ Universal drive bays or higher	
best practices 8 x 2.4 TB (12G SAS) RAID controller with 8GB or Higher Cach	* *
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Graphics	159

VGA interface
D 159
12159
Management LAN
NIC ports 1 x 1Gb RJ45
D 159
13159
Management
Support of built-in intelligent management interface with Enterprise license enabling OOB
management with a capability along with management software. Management engine
should be able to integrate with 3rd party management software as well
D 159
Software should support dashboard view to quickly scan the managed resources to assess the
overall health of the data center. It should provide an at-a-glance visual health summary of
the resources user is authorized to view
D 159
The Dashboard minimum should display a health summary of the following: • Server Profiles •
Server Hardware • Appliance alerts
D 159
Management software should support integration with popular virtualization platform
management software like VMware vCenter & vRealize Operations, Microsoft System
Center & Admin Center, OpenStack and RHEL OpenShift
D 159
Should help provide proactive notification of actual or impending component failure alerts on
critical components like CPU, Memory and HDD
M 159
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Security
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17159
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Product
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manufacturer (OEM). All supplied must be new, genuine, sourced through authorized
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M 159
7 X COMPUTE NODE (5 X PRIMARY AND 2 X DR SITE)
Sr. No
Parameters 161
Requirement Criteria
M or D
Confirmed Value 161
1 161
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1U Form Factor -Optimized
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2 161
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cores or higher
M 161
3 161
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RHEL, SLES, VMware, Windows and Virtualization technologies: VMware vSphere, RHEV
KVM and Microsoft Hyper-V
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4 161
Memory
512 GiB using RDIMM DDR5 speed up to 6400 MT/s supported 8TiB max, or higher161
M 161
6 161
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7 161
Power Supplies
Fault Tolerance 800W Redundant Hot Pluggable Power Supplies or higher (vendor best
practices) with Power Cord
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Direct IO architecture from all CPUs, All NVMe drives and network interfaces must connect
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High performance NICs must be configured via PCIe (5 Generation) slots
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Support for 4 x USB ports or Higher
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VGA interface 161
D 161
12161
Management LAN
NIC ports 1 x 1Gb RJ45
D 161
13161
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Support of built-in intelligent management interface with Enterprise (Datacenter Grade) license
enabling OOB management with a capability along with management software.
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actions as needed
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	factor with cryptographically verified hardware integrity		
	M 162		
	16162		
	Security	52	
	Cryptographically signed firmware, Secure Boot, Silicon Root of Trust	52	
	M 162		
	17162		
	Support Services		
	One (01) Years Next Business Day with onsite service and support	52	
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	Product) 2	
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0.1 Acronym Table

Note: Compile a table of organizational and technical acronyms used in the Requirements. This can be done, for example, by extending the following table.

A. ACRONYMS USED IN THE TECHNICAL REQUIREMENTS

Term	Explanation
bps	bits per second
cps	characters per second
DBMS	Database Management System
DOS	Disk Operating System
dpi	dots per inch
Ethernet	IEEE 802.3 Standard LAN protocol
GB	gigabyte
Hz	Hertz (cycles per second)
IEEE	Institute of Electrical and Electronics Engineers
ISO	International Standards Organization
KB	kilobyte
kVA	Kilovolt ampere
LAN	Local area network
lpi	lines per inch
lpm	lines per minute
MB	megabyte
MTBF	Mean time between failures
Multi-AZ	Multi Availability Zone
NIC	Network interface card
NOS	Network operating system
ODBC	Open Database Connectivity
OLE	Object Linking and Embedding
OS	Operating system
PCL	Printer Command Language
ppm	pages per minute
PS	PostScript Adobe page description language
RAID	Redundant array of inexpensive disks
RAM	Random access memory
RISC	Reduced instruction-set computer
SCSI	Small Computer System Interface
SNMP	Simple Network Management Protocol
SQL	Structured Query Language

Term	Explanation
TCP/IP	Transmission Control Protocol / Internet Protocol
V	Volt
WLAN	Wireless LAN
CC	Critical compliant 100%
FC	Fully compliant 80%
PC	Partial compliant 10%
NC	Non-compliant 0%

B. FUNCTIONAL, ARCHITECTURAL AND PERFORMANCE REQUIREMENTS

1.1 Legal and Regulatory Requirements to be met by the Information System

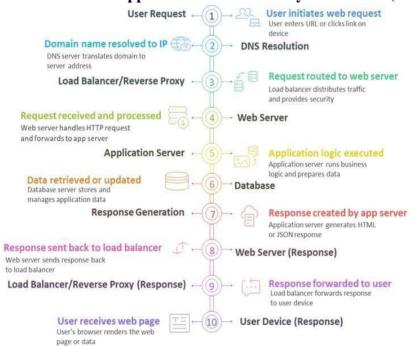
- 1.1.1 The Information System MUST comply with the following laws and regulations: In Pakistan the national information security organizations have made it clear that data must be physically hosted within Pakistan. Organizations such as National Telecommunication and Information Security Board (NTISB) require that CLICK, Department, Government of Sindh be hosted in Pakistan. Clause 14.1 in the Personal Data Protection Bill (states that "Critical personal data shall only be processed in a server or data center located in Pakistan".
- 1.1.2 CLICK, Investment Department, Government of Sindh being a government organization, cannot ignore the prevailing security interests/obligations. If a foreign country decides to block internet access originating from Pakistan or requests the cloud provider for access to our data, there is very little we can do about it.

1.2 Business Function Requirements to be met by the Information System

- 1.2.1 The Sindh Local Government seeks to modernize and standardize its digital service delivery ecosystem through a unified, secure, and scalable private cloud platform. The proposed solution is an OpenStack–based private secured cloud, hosted at a Tier-III certified co-location data center with SD-WAN connectivity to all major provincial departments, divisional headquarters, district offices, and national registries.
- 1.2.2 This private secured cloud will act as the central hosting platform for the Sindh Business One Stop Shop (SBOSS) application ecosystem built on a Microsoft .NET Framework middleware that interacts with multiple Microsoft SQL Server databases while enabling unified integration with:
 - National registries (NADRA, SECP, etc.)
 - Payment and insurance gateways
 - Mobile applications & customer (citizen) portals
 - Third-party departmental systems
 - Cross-government shared services
 - An enterprise-grade Integration Layer / Enterprise Service Bus (ESB)
- 1.2.3. The architecture incorporates private secured cloud best practices, including elastic compute pools, container-ready workloads, micro service-friendly integration, software-defined networking, Multi Availability Zone (Multi-AZ) fault tolerance, and a hybrid DR model that intelligently decides where each workload runs (primary DC, DR DC, or on-prem departmental nodes).
- 1.2.4. This strategy ensures that Sindh's digital government environment becomes resilient, future-ready, cost-efficient, and scalable, supporting long-term modernization, digital governance, and citizen-centric innovation across the province.
- 1.2.5. The Sindh Business One Stop Shop (SBOSS) initiative aims to simplify and digitize business processes across Sindh by integrating multiple provincial and federal entities into one unified platform. To meet the performance, security, and regulatory expectations

of 2025 and beyond, the government requires a private secured cloud architecture that ensures:

- High availability and resilience
- Standardized infrastructure for application & database hosting
- Secure connections with national registries
- Strong data sovereignty (data stays in [Sindh] Pakistan)
- Ability to scale rapidly across inter-governmental departments
- Centralized security and operations
- Optimized cost through shared, multi-tenanted (inter-governmental departments) resources
- 1.2.6. An OpenStack private secured cloud is recommended due to its proven enterprise stability, open-source flexibility, software define capabilities, automated lifecycle management, and strong support for cloud-native modernization.
- 1.2.7. This document presents an integrated architectural view explaining how the main SBOSS application, the integration layer, the databases, and all dependent third-party systems interoperate within the proposed private cloud ecosystem.
- 1.2.8. How the S-BOSS Application Platform Ecosystem Works (Architecture)?



SBOSS Application Process Flow

1.2.8.1. Core Application Layer (.NET Framework Middleware)

The SBOSS main application is built on the **Microsoft .NET Framework**, operating as the middleware between the frontend (web/mobile) and backend systems. Key functions include:

- Business logic execution (from data ingestion to result extraction)
- Workflow orchestration
- Application Form validations (with Irregular data, Misplace data, Deduplicated data, Corrupted data, Wrong data, Outdated date)

- API consumption and routing
- Secure service interactions with national & provincial systems
- Data persistence into multiple **Microsoft SQL Server** datasets.
- 1.2.8.2. This middleware is hosted on redundant **OpenStack VM instances** or **Kubernetes clusters** (if containerized in future modernization), enabling horizontal scaling as user loads increase.

1.2.9. Database Layer (Multiple Microsoft SQL Server Instances)

Different SBOSS modules store data in separate but connected SQL Server databases. The private cloud hosts:

- Primary SQL AlwaysOn availability groups
- Multi-AZ replication
- DR database nodes in the backup site
- Database encryption via TDE
- High-speed SSD/NVMe storage pools
- OpenStack Cinder and Manila provide scalable block and shared storage for DB clusters.

1.2.10. Integration Layer / (ESB)

- The ESB is the backbone of interoperability.
 - It performs:
 - API mediation
 - Protocol transformation
 - Message orchestration
 - Load balancing of service calls
 - Secure tunneling to federal systems
- This integration layer connects SBOSS to:
 - NADRA
 - **SECP** (Security & Exchange Commission of Pakistan)
 - E-Payment Gateways
 - Insurance Gateways
 - Provincial Government Departments
 - Federal Registries
- All integrations use secure channels (TLS 1.2+, IPSec tunnels, or SD-WAN segmentation).

1.2.11. Intelligent Data Consistency Checker Layer

Ensure data accuracy and streamline operations with ICC, a web-based, centralized data consistency management solution. ICC provides business users and management with trusted data by automating data validation, improving operational efficiency, and enhancing decision-making processes.

It tackles inconsistent data across departments, offering early warnings for data issues and seamless integration across diverse data sets:

- Compliance and Regulatory Reporting
- Fraud Detection and Prevention
- Automated Data Validation Across Migration Sources
- Template-Based Validation Rules for Migration
- Near Real-Time Validation During Migration Processes
- Cross-System Consistency Checks for Data Integrity
- Automated Scheduling of Migration Validation Tasks
- Near Real-Time Monitoring Report
- Threshold-Based Early Warning Alerts
- Data Profiling for Pre-Migration Analysis
- System Interoperability for Migration Readiness
- Data Quality Assurance
- Automated Alerts for Operational Metrics

1.2.12. Payment & Insurance Gateways

- Payment gateways include:
 - 1-Link
 - Banks
 - Credit & debit card processors
 - Mobile wallet providers
- Insurance integrations support business registration workflows requiring insurance verification/issuance.
- All gateway interactions are routed through the integration layer for logging, compliance, and SLA enforcement.

1.2.13. Mobile App & Customer Portal

Both the mobile app and the customer portal:

- Consume APIs exposed from the .NET middleware
- Use OAuth2/OpenID Connect identity management
- · Store digital forms/data in SQL Server
- Interact with third-party systems indirectly via the ESB
- They are hosted on highly available OpenStack web/app clusters.

1.2.14. Third-Party Applications & National Registries

Systems like:

- SECP e-Services
- Pakistan MNP Database (Guarantee) Limited (PMD)

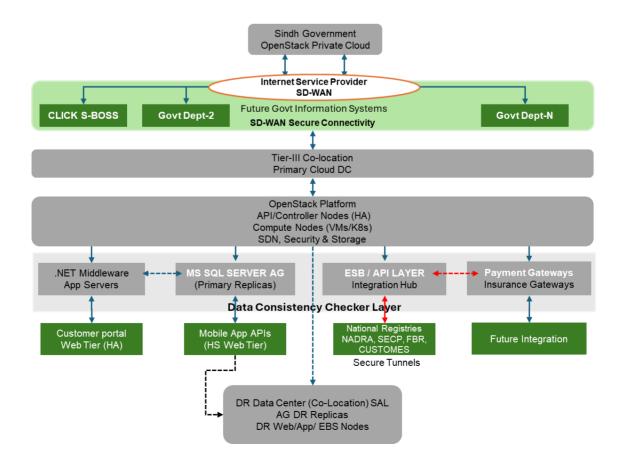
- NADRA CNIC verification
- Excise & Taxation
- · Sindh Revenue Board
- Labor & Industries Departments
- Banks & insurance companies connect securely via:
 - ESB
 - API gateways (northbound/southbound)
 - o SD-WAN segmentation
 - o Federation links (for authentication)

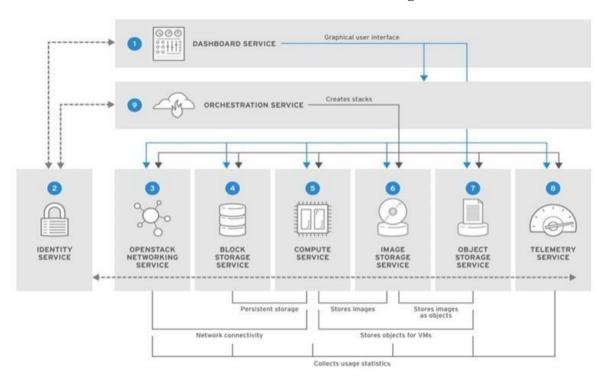
1.2.15. Recommended Private Cloud Setup (OpenStack)

- Production-grade automation
- Full-stack lifecycle management
- HA control-plane
- Improved security hardening
- Built-in monitoring (integration)
- Optimized for large-scale government workloads
- Multi-cloud and hybrid-cloud ready

1.3 Architectural Requirements to be met by the Information System (Cloud)

1.3.1 The following architectural to fulfil existing and future cloud native applications platform. The following reference architecture diagram:





Reference Architecture Diagram

Private Secured Cloud Architecture

1.3.2 Primary DC (Co-location, Tier-III)

- Multi-Availability Zone (Multi-AZ) OpenStack cluster
- Compute nodes (hyper-converged or dedicated)
- SSD/NVMe high-speed for Block and (unstructured Files and HDFS ready) storage pools
- Network nodes with SDN
- API gateway & ESB clusters
- SQL Server Availability Zone (AG) primary replicas
- Web/ App tiers
- Security stack

1.3.3 Government SD-WAN Network (through 3rd party Internet service providers) Connecting:

- Provincial secretariat
- inter-governmental departments / Offices
- Federal agencies (via secure tunnels)
- Banks & payment networks
- Law enforcement databases (where authorized)

1.3.4 SD-WAN provides:

• Dynamic bandwidth optimization

- Segmentation
- · Encrypted transport
- Intelligent routing / Switching
- 1.3.5 Disaster Recovery Data Center (Tier III Co-Located)
 - DR OpenStack cluster
 - Asynchronous & synchronous replication
 - · Warm standby environment
 - Failover orchestration
 - DR drill automation
- 1.3.6 On-Prem Departmental Nodes

Where necessary, small on-prem OpenStack may be deployed for:

- · Local autonomy
- · Offline operation
- · Edge analytics
- 1.3.7 The proposed OpenStack private secured cloud provides a future-proof, secure, cost-effective, and highly scalable infrastructure to support the Sindh Business One Stop Shop and wider Sindh Local Government IT ecosystem. Through SD-WAN, enterprise integration, and modern cloud design, the solution enables:
 - Seamless cross-department interoperability
 - Robust compliance and data security
 - Lower operating costs through consolidation
 - Improved citizens' access to digital services
 - A unified platform for all provincial digital initiatives

C. SERVICE SPECIFICATIONS – SUPPLY & INSTALL ITEMS

1. Technical Approach, Methodology, and Work Plan

1.1 Understanding of the Assignment

The Sindh Investment Department (SID), under the Competitive and Livable City of Karachi (CLICK) Program, requires a modern, secure, integrated, and automated system to manage investment facilitation, business registration, inter-departmental coordination, and service delivery for stakeholders.

The objective is to enhance transparency, simplify processes, and create a digitally integrated investment ecosystem for Sindh.

The solution will integrate:

- The core Microsoft .NET-based application
- Multiple Microsoft SQL Server databases
- Integration Layer / API Gateway
- National registries, and third-party systems
- Payment & insurance gateways
- Mobile app & customer portal
- Private cloud infrastructure (if applicable)

2. Deliverable Service Specifications

2.1 Supply & Install Items

Deliverables

- 1. Supply of all approved hardware/software, including servers, storage, network, OS, middleware, and licenses.
- 2. Installation, configuration, and optimization of all components.
- 3. Implementation of high-availability, security hardening, and backup configurations.
- 4. Conducting Site Acceptance Testing (SAT) and installation validation.
- 5. Delivering complete installation and OEM documentation.

Methodology

- Adopt PMI-compliant deployment procedures.
- Use manufacturer-certified installation teams.
- Ensure compliance with World Bank and GoS standards.

2.2 System Analysis

Deliverables

- 1. Business process mapping for all CLICK workflows.
- 2. Detailed Requirements Specification Document (RSD) covering functional, technical, integration, and security requirements.
- 3. Stakeholder workshops with SID-SBOSS, payment gateways, registries, and third-party providers.
- 4. Gap analysis and AS-IS/TO-BE documentation.

Methodology

- Use Business Process Model and Notation.
- Conduct structured interviews, surveys, and JAD sessions.
- Validate all findings with SID leadership before design begins.

2.3 System Design & Customization / Development Deliverables

- 1. High-Level Architecture (HLA) and Low-Level Design (LLD) documents.
- 2. Customized modules, workflows, dashboards, and user interfaces.
- 3. API designs for integration with:
 - o National Registries (SECP, NADRA, PMD, SRB, FBR, etc)
 - Payment and Insurance Gateways
 - SBOSS / Sindh Digital Platforms
 - Third-party services
- 4. Fully developed and tested functionalities.
- 5. QA testing artifacts: test cases, results, defect logs, traceability matrix.

Methodology

- Follow SDLC (Agile/Hybrid) with sprint reviews.
- Conduct peer reviews, code scans, and secure coding practices.
- Apply continuous integration and testing process.

3. Project Management Structure

3.1 Governance Model

- Project Steering Committee
- Project Management Unit
- Vendor Project Manager
- Functional & Technical Leads
- Quality Assurance Team

4. Work Plan and Implementation Schedule

A typical timeline (adjustable to RFP requirements):

Phase	Activities	Duration
Phase 1	Kickoff, Inception, System Analysis	1 week
Phase 2	System Design & Architecture	2 week
Phase 3	Customization & Development	3 week
Phase 4	Integration, Testing & UAT	4 week
Phase 5	Training & Documentation	5 week
Phase 6	Data Migration & Go-Live	6 & 7 week
Phase 7	Post Go-Live Support & Warranty	As per RFP

The bidder can perform the above phases simultaneously to meet project time lines mentions in the implementation schedule of the RFP.

5. Quality Assurance & Compliance

Quality Standards

- Information Security
- Quality Management
- Secure Coding

Security Controls

End-to-end encryption

- RBAC and MFA
- Audit logs and monitoring
- Backup and recovery procedures

6. Risk Management Strategy

Key Risks

- Integration delays
- Data inconsistencies
- Stakeholder alignment gaps
- Cybersecurity threats

Mitigation

- Early API testing
- Multi-stage migration dry runs
- Weekly PMU meetings
- Security assessments and penetration testing

7. Sustainability, Handover & Capacity Building

- Knowledge transfer to CLICK-PIU teams
- Complete technical & operational documentation
- Onsite and remote support
- Warranty & maintenance commitment
- Future scalability planning

<u>Note</u>: The Bidder must have end-to-end responsibility to migrate the SBOSS existing system into cloud environment without losing data integrity.

2.2. System Integration (to other existing systems)

- 2.2.1. All solutions and technologies provided as part of this RFP should have the capability of integrating with the Sindh Business One Stop Shop (SBOSS) Platform. Furthermore, the proposed solutions and technologies should have integration capabilities with other government systems and 3rd party integrators (such as, NADRA, SECP, PMD, 1-Link, etc.) which been implemented and integrated with existing solutions. The proposed system could be provisioned to other Cloud users along with integrated billing mechanism as and when required.
- 2.2.2. The Supplier MUST perform the following Integration Services:

Deliverables

- o Integration Layer (API Gateway/ESB) for secure interoperability.
- o End-to-end integration with government databases and external services.
- o Configured log management, monitoring dashboards, and security controls.
- o Integration testing, user acceptance testing (UAT), and system-wide validation.
- o Documentation for all interface control documents (ICDs).

Methodology

- o Industry-standard API protocols (REST/SOAP/XML/JSON).
- Encrypted communication using TLS +
- o Integration performance testing and transaction flow monitoring.
- o Joint testing workshops with all external stakeholders.

2.3. Training and Training Materials

2.3.1. The Supplier MUST provide the following Training Services and Materials:

Deliverables

- Training Needs Assessment (TNA) report.
- End-user training for portal, mobile app, and dashboards.
- Technical and administrative training for IT teams.
- Comprehensive training material including:
 - User manuals
 - o Technical guides
 - o SOPs
 - Quick reference sheets
- Training evaluation & certification for participants.

Methodology

- Instructor-led sessions, hands-on labs, and simulation exercises.
- Complete recording and documentation for SID future reference.
- Post-training Q&A and practical assessments.

2.4. Data Conversion and Migration

- 2.4.1. The Supplier MUST provide services and tools to perform the following Data Conversion and Migration Services:
 - SBOSS existing application migration from on-premises cloud collocated in Tier-III data center to proposed cloud computing environment including moving data, product applications, and other business management documents
 - Supplier will also train and transfer knowledge to CLICK and/ or CLICK-PIUs team regarding data migration activity
 - SBOSS Application Platform migration from collocated private cloud to new cloud computing environment including moving data, product applications, data backups and other business management documents

Deliverables

- o Data assessment and mapping document for all legacy systems.
- o Data cleansing, standardization, and validation rules.
- o Transformation logic, migration scripts, and automation tools.
- o Multiple migration dry runs with reconciliation reports.
- o Final migration with integrity test results and sign-off.

Methodology

- o ETL-based migration framework.
- o Data validation using checksum, record counts, and BI dashboards.
- o Strict adherence to data security and confidentiality standards.

2.5. Documentation Requirements

3. The Supplier MUST prepare and provide the following Documentation:

- o End-User Documents: End user documentation to enable users to understand how to use the solution effectively and efficiently. The documentation requirements for Solutions:
- User Guide: A user guide should provide step-by-step instructions on how to use the Cloud, Server, Storage, Network and Cyber Security Solution, including how to navigate the user interface, perform basic tasks, and troubleshoot issues.
- o Troubleshooting Guide: A troubleshooting guide should provide detailed information on how to diagnose and resolve common issues that users may encounter when using the above solution
- Frequently Asked Questions (FAQs): FAQs should provide answers to common questions that users may have about the proposed solution, including how to perform specific tasks, how to troubleshoot issues, and where to find additional resources.
- Training Materials: Training materials, such as videos, webinars, and live training sessions, should be available to help users learn how to use the above Solution effectively.
- Online Help: Online help should be available within each component of proposed Solution, providing users with access to context-sensitive help content when they need it.
- o Glossary: A glossary of terms should be provided to help users understand technical terminology used within the proposed solution.
- Contact Information: Contact information for technical support and customer service should be provided, enabling users to get help when they need it.

3.2.1. Technical Documents:

- o The selected Vendor to provide the following documentation.
- Deployment documentation & Network diagram (High-Level Diagram HLD & Low-Level Diagram LLD).
- O Detail about how to handle day-to-day administrative activities & good practices to be followed.
- An installation guide should be provided for step-by-step instructions on how to install and configure the Server, Storage, Networks, Cyber Security and Cloud Solution.
- A configuration guide should be provided for detailed information on how to configure the server, Storage, Networks, Cyber Security and Cloud Solution to meet specific business requirements, including settings for network connectivity, security policies, and integration with other systems.
- An administration guide should be provided for detailed information on how to manage the Cloud Solution, Server Storage, Network Solution, including how to perform routine maintenance tasks, monitor system performance, and troubleshoot issues.
- API documentation should be provided for the complete Hardware and Software which includes but not limited to Storage, HPC, DDI/ IPAM/ DNS Security, End Point Security Solution, DLP, SIEM/ SOAR Solutions, enabling developers

- to integrate these solutions with other systems or build custom applications on top of them.
- Data flow diagrams should be provided to illustrate how data moves through the cloud stack, Server, Storage, End Point Security Solution, DLP, SIEM/ SOAR Solutions, including the flow of data between different components, such as servers, databases, and network devices.

D. TECHNOLOGY SPECIFICATIONS - SUPPLY & INSTALL ITEMS

3.0 Technical Requirements

Bidders must state clearly in their Bid how the proposed solution meets the following technical requirements where M are Mandatory and D are Desired.

M = Mandatory D = Desired

NC = non-compliant

All Mandatory ("M") clauses must be met in full. Failure to comply with any Mandatory clause will result in the bid being deemed non-compliant and lead to disqualification. For Desired ("D") clauses, bidders must achieve a compliance threshold of 90%.

3.1. Computing Hardware Specifications

Infrastructure Node

No.	Parameters	Requirement Criteria	M or D	Confirmed Value
				Commineu value
1. C	Chassis	1U Form Factor - Optimized	M	
2. F	Processor	2 x Intel Xeon 6th Generation Performance Processor with 2.4 Ghz 16 Cores support dual 144 cores or higher	M	
3.	OS Support	RHEL, SLES, VMware, Windows Virtualization technologies: VMware vSphere, RHEV, KVM and Microsoft Hyper-V.	D	
4. N	Memory	256 GiB using RDIMM DDR5 speed up to 6400 MT/s supported 8 TiB max. or higher	M	
5. I	Internal Disks	Server should support at least 8 x 2.5-inch NVMe E3s/ Universal drive bays or higher vendor best practices 4 x 2.4TB (12G SAS) RAID controller with 8GB or Higher Cache Supports Flash drives	M	
6.	OS Boot Disks	2 x M.2 960Gb SSD Internal Boot Disk	M	
7. F	Power Supplies	Minimum 800W Redundant Hot Pluggable Power Supplies or higher (vendor best practices) with Power Cord	D	
8. I	O Architectures	Direct IO architecture from all CPUs, All NVMe drives and network interfaces must connect directly to CPU without intermediate switch fabric to eliminate latency bottleneck.	М	
9. I	Interfaces	High performance NICs must be configured via PCIe (5 Generation) slots or Higher	D	Official l

Official Use Only

	6 X INFRASTRUCTURE NODE (3 X PRIMARY AND 3 X BACKUP SITE)					
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value		
10.	USB	Support for 4 x USB ports or Higher	D			
11.	Graphics	VGA interface or Higher	D			
12.	Management LAN	NIC ports 1 x 1Gb RJ45 or Higher	D			
		Support of built-in intelligent management interface with Enterprise license enabling OOB management with a capability along with management software. Management engine should be able to integrate with 3rd party management software's as well.	D			
		Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data center. It should provide an at-a-glance visual health summary of the resource's user is authorized to view.	D			
	. Management		T su	The Dashboard minimum should display a health summary of the following: • Server Profiles • Server Hardware • Appliance alerts	D	
		Management software should support integration with popular virtualization platform management software like VMware vCenter & vRealize Operations, Microsoft System Center & Admin Center, OpenStack and RHEL OpenShift	D			
13.		Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.	М			
		Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.	М			
		DHCP, Zero Touch Configuration, Static IP	M			
		Review server details and inventory, view LC and System Event logs, get automatic notifications on mobile device from an OME console	М			
		Assign IP address and modify password, configure key BIOS attributes, and take remediation actions as needed	M			
		The Server Management Software should be of the same brand as of the server supplier.	M			
	DOL G	Maximum support of PCI-e Slots as per vendor best practices or Higher	D			
14.	PCI-e Connectivity	4 x Ethernet 10Gb/25Gb dual-port with SFP28 Transceivers and OM4 15M LC/LC cables or Higher	M	Official U		

se Only

	6 X INFRASTRUCTURE NODE (3 X PRIMARY AND 3 X BACKUP SITE)					
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value		
15.	Performance	The server must deliver leading performance for with latest x86 architecture in 1U form factor with cryptographically verified hardware integrity or Higher	М			
16.	Security	Cryptographically signed firmware, Secure Boot, Silicon Root of Trust, TPM Certified 2.0 or higher support	М			
17.	Support Services	One (01) Years Next Business Day with onsite service and support.	M			
18.	Product	The bidder is required to provide servers and storage from the same original equipment manufacturer (OEM). All supplied must be new, genuine, sourced through authorized distribution channels. Refurbished, used, or grey-market equipment will not be accepted	М			

Control Node

	5 X CONTROL NODE (3 X PRIMARY AND 2 X BACKUP SITE)					
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value		
1.	Chassis	1U Form Factor -Optimized	M			
2.	Processor	2 x Intel Xeon 6th Generation Performance Processor with 2.4 Ghz 16 Cores support dual 144 cores or higher	M			
3.	OS Support	RHEL, SLES, VMware, MS Windows and Virtualization technologies: VMware vSphere, RHEV, KVM and Microsoft Hyper-V.	D			
4.	Memory	256 GiB using RDIMM DDR5 speed up to 6400 MT/s supported 8 TiB max or higher	M			
5.	Internal Disks	Server should support at least 8 x 2.5-inch NVMe E3s/ Universal drive bays or higher vendor best practices 8 x 2.4 TB (12G SAS) RAID controller with 8GB or Higher Cache Supports Flash drives	M			
6.	OS Boot Disks	2 x M.2 960 Gb SSD Internal Boot Disk	M			
7.	Power Supplies	Minimum 800W Redundant Hot Pluggable Power Supplies or higher (vendor best practices) with Power Cord	M			
8.	IO Architectures	Direct IO architecture from all CPUs, All NVMe drives and network interfaces must connect directly to CPU without intermediate switch fabric to eliminate latency bottleneck.	M			
9.	Interfaces	High performance NICs must be configured via PCIe (5 Generation) slots or Higher	D			
10.	USB	Support for 4 x USB ports or Higher	D			

5 X CONTROL NODE (3 X PRIMARY AND 2 X BACKUP SITE)				
11.	Graphics	VGA interface or Higher	D	
12.	Management LAN	NIC ports 1 x 1Gb RJ45 or Higher	D	
13.	Management	Support of built-in intelligent management interface with Enterprise license enabling OOB management with a capability along with management software. Management engine should be able to integrate with 3rd party management software as well.	D	
		Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data center. It should provide an at-a-glance visual health summary of the resources user is authorized to view.	D	
		The Dashboard minimum should display a health summary of the following: • Server Profiles • Server Hardware • Appliance alerts	D	
		Management software should support integration with popular virtualization platform management software like VMware vCenter & vRealize Operations, Microsoft System Center & Admin Center, OpenStack and RHEL OpenShift	D	
		Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.	M	
		Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.	M	
		DHCP, Zero Touch Configuration, Static IP	M	
		Review server details and inventory, view LC and System Event logs, get automatic notifications on mobile device from an OME console	M	
		Assign IP address and modify password, configure key BIOS attributes, and take remediation actions as needed	M	
14	DCI a Compostivity	The Server Management Software should be of the same brand as of the server supplier.	M	
14.	PCI-e Connectivity	Maximum support of PCI-e Slots as per vendor best practices or Higher 4 x Ethernet 10Gb/25Gb dual-port with SFP28	D 	
		Transceivers and OM4 15M LC/LC cables or Higher	141	
15.	Performance	The server must deliver leading performance for with latest x86 architecture in 1U/2U form factor with cryptographically verified hardware integrity or Higher	M	
16.	Security	Cryptographically signed firmware, Secure Boot, Silicon Root of Trust, TPM Certified 2.0 or higher support	M	
17.	Support Services	1 Years Next Business Day with onsite service and support.	M	
18.	Product	The bidder is required to provide servers and storage from the same original equipment manufacturer (OEM). All supplied must be new,	M	
		genuine, sourced through authorized		Official Us

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5 X CONTROL NODE (3 X PRIMARY AND 2 X BACKUP SITE)			
distribution channels. Refurbished, used, or			
grey-market equipment will not be accepted			

COMPUTE NODE

7 X COMPUTE NODE (5 X PRIMARY AND 2 X DR SITE)					
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value	
1.	Chassis	1U Form Factor -Optimized	M		
2.	Processor	2 x Intel Xeon 6th Generation Performance Processor with 2.4 Ghz 24 Cores support dual 144 cores or higher	M		
3.	OS Support	RHEL, SLES, VMware, Windows and Virtualization technologies: VMware vSphere, RHEV, KVM and Microsoft Hyper-V.	D		
4.	Memory	512 GiB using RDIMM DDR5 speed up to 6400 MT/s supported 8TiB max, or higher	M		
6.	OS Boot Disks	2 x M.2 960Gb SSD Internal Boot Disk	M		
7.	Power Supplies	Fault Tolerance 800W Redundant Hot Pluggable Power Supplies or higher (vendor best practices) with Power Cord	D		
8.	IO Architectures	Direct IO architecture from all CPUs, All NVMe drives and network interfaces must connect directly to CPU without intermediate switch fabric to eliminate latency bottleneck.	M		
9.	Interfaces	High performance NICs must be configured via PCIe (5 Generation) slots or Higher	D		
10.	USB	Support for 4 x USB ports or Higher	D		
11.	Graphics	VGA interface or Higher	D		
12.	Management LAN	NIC ports 1 x 1Gb RJ45 or Higher	D		
13.	Management	Support of built-in intelligent management interface with Enterprise (Datacenter Grade) license enabling OOB management with a capability along with management software. Management engine should be able to integrate with 3rd party management softwares as well.	D		
		Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data center. It should provide an ataglance visual health summary of the resources user is authorized to view.	D		
		The Dashboard minimum should display a health summary of the following: • Server Profiles • Server Hardware • Appliance alerts	D		
		Management software should support integration with popular virtualization platform management software like VMware vCenter & vRealize Operations, Microsoft System Center & Admin Center, OpenStack and RHEL OpenShift	D		
		Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.	M		
		Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.	M		
		DHCP, Zero Touch Configuration, Static IP	M		
		Review server details and inventory, view LC and System Event logs, get automatic notifications on mobile device from an OME console	M		
		Assign IP address and modify password, configure key BIOS attributes, and take remediation actions as needed	M		

		7 X COMPUTE NODE (5 X PRIMARY AND 2 X DR	SITE)	
		The Server Management Software should be of the same brand as of the server supplier.	M	
14.	PCI-e Connectivity	Maximum support of PCI-e Slots as per vendor best practices or Higher	D	
		4 x Ethernet 10Gb/25Gb dual-port with SFP28 Transceivers and OM4 15M LC/LC cables or Higher	M	
15.	Performance	The server must deliver leading performance for with latest x86 architecture in 1U/2U form factor with cryptographically verified hardware integrity or Higher	M	
16.	Security	Cryptographically signed firmware, Secure Boot, Silicon Root of Trust or Higher	M	
17.	Support Services	One (01) Years Next Business Day with onsite service and support.	M	
18.	Product	The bidder is required to provide servers and storage from the same original equipment manufacturer (OEM). All supplied must be new, genuine, sourced through authorized distribution channels. Refurbished, used, or grey-market equipment will not be accepted	M	

3.2 Network and Communications Specifications

Routers

		3 X ROUTERS (2 X PRIMARY AND 1 X DR SIT	E)	
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
1.	Form Factor	1 RU Configuration router	M	
2.	Operating System	Latest OS with distributed, preservation state model, including multivendor interoperability or Higher	M	
3.	Performance	Minimum 400 Gbps throughput required with power efficiency	M	
4.	Processing Unit	Support at least 8 Core CPU, 32 GB DDR4 RAM, dual 100 GB SSD or Higher	M	
5.	Interface Ports	Must support 4 × 100GbE QSFP28, 8 × 10GbE SFP+, 4 × 40GbE (breakout supported) or higher	M	
6.	Routing Protocols	BGP, OSPF, IS-IS, MPLS, LDP, RSVP, Segment Routing	M	
7.	Security Features	Stateful Firewall Filters / ACLs	D	
		DDoS protection (FlowSpec, control plane)	D	
		IPsec and GRE Tunneling	D	
		Lawful Intercept and Flow Monitoring	D	
		AES-256 MACsec encryption	D	
8.	Virtualization	Logical Systems, Virtual Router/Switch, Enhanced SLA Queuing or Higher	D	
9.	Telemetry & Automation	Must support telemetry Interface, integratable through REST APIs or Higher	D	
10.	Resiliency	Fast restoration, nonstop routing, OAM tools, MC-LAG support	M	
11.	Timing Support	Synchronous Ethernet, IEEE 1588v2 (PTP) or Higher	M	
12.	Power Supplies	Dual AC power supplies (redundant, hot-swappable) or Higher	M	

3 X ROUTERS (2 X PRIMARY AND 1 X DR SITE)					
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value	
13.	Cooling	Front-to-back airflow, redundant fan or Higher	M		
14.	Licensing	Premium software license includes 4×100GbE (with downgrade support), IPsec, stateful firewall, automation	M		
15.	Support	One (01) Years Next Business Day with onsite service and support.	M		
16.	Training	Mandatory technical training for 3 nominated officials	M		
17.	Product	The bidder is required to provide router and firewall and from the same original equipment manufacturer (OEM).	M		

Firewall

		2 X FIREWALL (1 X PRIMARY AND 1 X DR S	SITE)	
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
1.	Form Factor	1 RU Configuration	M	
2.	Operating System	Latest OS with Stateful, zone based, unified access protection, distributed, preservation state model, URL filtering, including multivendor interoperability	M	
3.	Performance	Must have 4 million concurrent (IPv4 or IPv6) sessions with 2 million routing table including 4000 Ipsec VPN tunnels or higher	M	
4.	Interface Ports	Must support 8 x 1 GbE/10 GbE SFP+ 4 x 1 GbE/10 GbE/25 GbE SFP28 2 x 40 GbE/100 GbE QSFP28 or or higher	M	
5.	Routing Protocols	Must support BGP, OSPF/OSPF v3, IPv4, IPv6, static routes, RIP v1/v2, protocol independent, sparse mode, Session Description, Distance Vector Multicast Routing, IGMP v1/v2, Source Discovery, Rreverse path forwarding protocol Encapsulation VLAN, PPPoE, EVPN Type 5 route, Policy-based routing, source-based routing and Equal-cost multipath or higher	M	
6.	Security	Application visibility and control	M	
	Features	Application QoS and DDoS protocol traffic	M	
		Advanced application policy-based routing	M	
		Application Quality of Experience	M	
		Application-based multipath routing	M	
		Enhances tunnel inspection for VXLAN encapsulated traffic with Layer 4-7 security.	M	
7.	Virtualization	Virtual routers IPv4, IPv6, Virtual private LAN service, NG VPN or higher	M	
8.	Telemetry & Automation	Must support telemetry Interface, integratable through REST APIs	D	
9.	Power Supplies	Dual AC power supplies (redundant, hot-swappable) or Higher	M	
10.	Cooling	Front to back airflow, redundant fan or Higher	M	
11.	Licensing	Premium software license	M	
12.	Support	One (01) Years Next Business Day with onsite service and support.	M	
13.	Training	Onsite technical training for 3 nominated officials	M	

	2 X FIREWALL (1 X PRIMARY AND 1 X DR SITE)				
14.	Product	The bidder is required to provide router and firewall from the same original equipment manufacturer (OEM).	M		

Load Balancer

	3 X LOAD BALANCERS (2 X PRIMARY AND 1 X DR SITE)				
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value	
1.	Hardware & Form Factor	1U rack-mountable appliance Minimum 8 × 1-Gigabit Ethernet (10/100/1000 Base-T) network interfaces Supports external management interface Internal solid-state storage (SSD) or Higher	M		
2.	Performance Requirements	Layer-4 Throughput: Minimum 5 Gbps Layer-7 (HTTP) Throughput: Minimum 3.5 Gbps, SSL Throughput: Minimum 1 Gbps SSL Transaction Capacity: Minimum 1,400 TPS (2K key), Concurrent Connections (L4): Minimum 14 million, New Connections per Second (L4): Minimum 120,000 CPS, New HTTP Connections per Second (L7): Minimum 24,000 CPS or Higher	M		
3.	Load Balancing Capabilities	Layer-4 (TCP/UDP) and Layer-7 (HTTP/S) load balancing Supported algorithms: Round Robin Weighted Round Robin Least Connection Adaptive load balancing (CPU/session/URL based) Supports a minimum of 100 backend/real servers Session persistence (cookie-based, IP-based, SSL session ID) Intelligent health checks: TCP, HTTP, HTTPS, ICMP, and custom scripts.	M		
4.	Application & Traffic Management	Full content-based (Layer-7) routing URL path—based, host header—based, parameter-based routing, Request/response rewrite & URL rewrite capability, Compression, caching, TCP connection pooling, HTTP multiplexing and server offloading support	M		
6.	Security Features	Integrated SSL offloading / SSL termination Application security features including: Protection against OWASP Top-10 threats (SQLi, XSS, CSRF), Form tampering protection Input validation and anomaly detection Access Control Lists (ACLs) – Source/Destination, Supports VLAN tagging (802.1Q), NAT, link-based failover Optional outbound Data Loss Prevention (DLP) for sensitive data inspection	М		
7.	High Availability (HA)	Active-Passive high-availability configuration State synchronization for seamless failover Automatic failover based on interface, system, or service health or Higher	M		
8.	Global Server Load Balancing (GSLB)	Multi-site failover and geo-redundant configuration, DNS-based load distribution Supports region-based, service-based, and geo-IP-based routing, Inter-site health status monitoring.	M		
9.	Networking & Protocol Support	IPv4 and IPv6 dual stack, Support for TCP, UDP, HTTP, HTTPS, SNMP v2/v3 for monitoring, Syslog for external log forwarding Static and dynamic routing support. or Higher	D		
10.	Authentication & Access Control Integrates	LDAP, RADIUS, Kerberos, Supports Two-Factor Authentication, Role-based administrative access. or Higher	D		

	3 X LOAD BALANCERS (2 X PRIMARY AND 1 X DR SITE)				
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value	
11.	Power & Environmental AC Input: 100– 240V, 50/60 Hz Power consumption approx.: 0.6 A	AC Input: 100–240V, 50/60 Hz Power consumption approx.: 0.6 A Heat dissipation approx.: 250 BTU/hr Operating temperature: 0°C – 40°C	D		
12.	Support	One (01) Years Next Business Day with onsite service and support.	M		
13.	Training	Onsite technical training for 3 nominated officials	M		

Core Switches

	3 X CORE SWITCHES (2 X PRIMARY AND 1 X DR SITE)					
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value		
1.	Form Factor	1 RU Configuration	M			
2.	Operating System	Must Support SmartFabric with Software define open networking for Cloud on the same hardware, Layer 2 and Layer 3 switching and routing protocols with integrated IP services, QoS, Manageability and Automation features, Smart abstraction interface, Control Plane Services, Time Protocol (IEEE 1588v2), with VM Mobility or Higher	M			
3.	Performance	Must Provide or higher: Throughput 2.4 Bpps (4.8 Bpps full duplex) Packet buffer memory: 32MB CPU memory: 16GB Switching capacity: 3.2 Tbps (6.4 Tbps full duplex) MAC Addresses: 32K min, 288K max IPv4 Hosts: 16K min, 168K max IPv6 Hosts: 8K min, 100K max IPv6 Routes: 128K IPv6 Routes: 64K Multicast Routes: 16K L2 Ingress ACL: 2K L2 Egress ACL: 2K L2 Egress ACL: 2K IPv4 Ingress ACL: 2K IPv6 Ingress ACL: 1K IPv6 Egress ACL: 1K IPv6 Egress ACL: 1K IPv6 Egress ACL: 1K VLANs: 4K MSTP instances: 63 instances PVST instances: 150 instances Total LAG: 128 Total members per LAG: 16	M			
4.	Interface Ports	Must provide 32x100GbE QSFP28 ports + 2xSFP+ 10GbE can be able 25G breakout or Higher	M			

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5.	Protocols	Must support EVPN/VXLAN at scale (L2/L3)	M	
		Built-in AI/HPC ready fabric features,		
		RoCEv2, PFC, and lossless buffer for GPU/AI		
		clusters and storage front ends, Breakout		
		flexibility and density, LAG load balancing:		

	3 X C	ORE SWITCHES (2 X PRIMARY AND 1 X D	R SITE)	
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
		Based on layer 2, IPv4 or IPv6 headers, Scalable L2 and L3 Ethernet Switching with QoS, ACL Converged network support for Data Center Bridging BGP EVPN with Integrated Routing and Bridging or Higher		
6.	Security Features	Local and remote authentication	M	
		Authentication, authorization, and accounting services	M	
		Restrict ingress traffic on an interface using port security	M	
		Secure encrypted connection using SSH	M	
		Limit user access using privilege levels with hypervisor integration	M	
		Limit concurrent login sessions with certerlize policy	M	
7.	Virtualization	VXLAN gateway functionality support for bridging and routing, L2 multipath support via Virtual Link Trunking (VLT) and Routed VLT or Higher	M	
8.	Power Supplies	Dual AC power supplies (redundant, hot- swappable) or Higher	M	
9.	Cooling	I/O Panel to PSU Airflow and PSU to I/O Panel Airflow, Redundant fans or Higher	D	
10.	Licensing	All functionality must be built-in software license or Higher	D	
11.	Support	One (01) Years Next Business Day with onsite service and support.	M	
12.	Training	Onsite technical training for 3 nominated officials	M	
13.	Product	All supplied must be new, genuine, sourced through authorized distribution channels. Refurbished, used, or grey-market equipment will not be accepted	M	

Distribution Switches

	3 X DISTRIBUTION SWITCHES (2 X PRIMARY AND 1 X DR SITE)					
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value		
1.	Form Factor	1 RU Configuration	M			
2.	Operating System	Must Support SmartFabric or Enterprise Software for Open Networking in the Cloud Distribution on the same hardware, Layer 2 and Layer 3 switching and routing protocols with integrated IP services, Quality of Service, Manageability and Automation features, Switch Abstraction Interface (SAI), Control Plane Services (CPS), Precision Time Protocol (PTP, IEEE 1588v2), VM Mobility or Higher	М			

	3 X DISTRIBUTION SWITCHES (2 X PRIMARY AND 1 X DR SITE)					
3.	Performance	Must Provide or higher: Throughput 1.5 Bpps (3.0 Bpps full duplex) Latency(nanosec): 847 Packet buffer memory: 32MB CPU memory: 16GB Switching capacity: 2.0 Tbps (4.0 Tbps full duplex) MAC Addresses: 32K min, 288K max IPv4 Hosts: 16K min, 168K max IPv6 Hosts: 8K min, 100K max IPv6 Routes: 128K IPv6 Routes: 64K Multicast Routes: 16K L2 Ingress ACL: 2K L2 Egress ACL: 2K IPv4 Ingress ACL: 2K IPv4 Egress ACL: 1K IPv6 Egress ACL: 1K VLANs: 4K MSTP instances: 63 instances PVST instances: 150 instances Total LAG: 128	M M			
4.	Interface Ports	Total members per LAG: 16 Must provide 48x 25GbE SFP28 + 2x 200GbE	M			
4.	interface Forts	QSFP28-DD + 4x 100GbE QSFP28 or Higher	IVI			
5.	Protocols	Must support EVPN/VXLAN at scale (L2/L3) Built-in AI/HPC ready fabric features, RoCEv2, PFC, and lossless buffer for GPU/AI clusters and storage front ends, Breakout flexibility and density, LAG load balancing: Based on layer 2, IPv4 or IPv6 headers, Scalable L2 and L3 Ethernet Switching with QoS, ACL Converged network support for Data Center Bridging BGP EVPN with Integrated Routing and Bridging (IRB)	M			
6.	Security	Local and remote authentication	M			
	Features	Authentication, authorization, and accounting services	M			
		Restrict ingress traffic on an interface using port security	M			
		Secure encrypted connection using SSH	M			
		Limit user access using privilege levels	M			
	77' . 1'	Limit concurrent login sessions	M			
7.	Virtualization	VXLAN gateway functionality support for bridging and routing, L2 multipath support via Virtual Link Trunking (VLT) and Routed VLT or Higher	M			
8.	Power Supplies	Dual AC power supplies (redundant, hot- swappable) or Higher	М			
9.	Cooling	I/O Panel to PSU Airflow and PSU to I/O Panel Airflow, Redundant fans or Higher	M			
10.	Licensing	Premium software license	M			
11.	Support	One (01) Years Next Business Day with onsite service and support.	M			

	3 X DISTRIBUTION SWITCHES (2 X PRIMARY AND 1 X DR SITE)					
12.	Training	Onsite technical training for 3 nominated	M			
		officials				
13.	Product	All supplied must be new, genuine, sourced				
		through authorized distribution channels.				
		Refurbished, used, or grey-market equipment				
		will not be accepted				

3.3 Ancillary Hardware Specifications

All Flash Enterprise Storage

	2 X ALL FLASH I	ENTERPRISE STORAGE (1 X PRIMARY SIT	E AND 1 X	DR SITE)
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
1.	Architecture:	The proposed unified NVMe / SSD array should be an enterprise class all flash storage with Dual active-active multi-controller/node supporting protocol block services natively or Higher	M	
2.	No Single Point of Failure:	The proposed array should have 99% reliability with No Single Point of Failure (SPOF). All the hardware and software components should be redundant including power supply, fans, batteries etc. The proposed array must support non-disruptive replacement of failed hardware component, firmware/microcode upgrades and hardware upgrades. or Higher	М	
3.	Dram Cache:	The proposed storage should be minimum 192GB or Higher DRAM Cache. The proposed array must protect data in cache during a manual power down or an unexpected power outage by de staging the data in cache to flash modules.	M	
4.	Multi-Protocol Support:	The proposed array should support FC, iSCSI & GigE connectivity natively and should not require external hardware to support these protocols and connectivity. or Higher	M	
5.	Front End Ports:	The proposed array should scale to at least 16 x 32Gbps or 24 x 25GbE iSCSI front end ports to provide scalable and dedicated connectivity to hosts and for remote replication. Must have support 4 x 10GBE SFP+ 4 x 25GBE SFP+ (redundant) ports controller/nodes. or Higher	M	
6.	Backend Connectivity:	SSD, NVMe or storage class memory drive connectivity should be using PCIe based technology for low latency compliant	M	
7.	Capacity & Performance Requirement:	The proposed array should be configured with an addressable 39 TiB effective capacity using NVMe/SSDs in industry standard RAID configuration and should be able to deliver at least 100000 IOPS (8K block size, 70% Read) with sub-millisecond response time. Mentioned performance numbers should be achieved using at least 3:1 data reduction technique like Compression and deduplication. Vendor should submit the document stating the abovementioned performance metrics capability of the proposed system.	M	

	2 X ALL FLASH ENTERPRISE STORAGE (1 X PRIMARY SITE AND 1 X DR SITE)			
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
8.	Scalability:	The proposed storage must be scalable to minimum addressable capacity of 800TB using NVMe/SSD drives. The proposed storage must support at least 90 SSD/NVMe or higher drives across multiple nodes/controllers.	M	
9.	Flash Drives:	The proposed array must support the latest industry standard dual ported native SSD/NVMe drives. All Flash drives support two independent I/O channels with automatic failover and fault isolation. Array should support mixing of drives of various sizes in same storage resource pool. or Higher	M	
10.	Data Efficiency:	The proposed array must include enterprise class data services including - Thin Provisioning, Inline Compression & Deduplication, Replication, Snapshot (with ROW algorithm). Data reduction must supported on FCP and iSCSI or Higher	M	
11.	Remote Replication:	The proposed array shall be able to provide remote replication. or Higher	M	
12.	Platform Support:	The proposed system should support popular operating system platforms such as Windows, AIX, HP-UX, Linux, Solaris etc. or Higher	M	
13.	Virtualized Environment:	Proposed storage solution should support VMware VAAI, SRM, VASA and data mobility. Detailed document to be provided for the same. Proposed storage should include software to create VM consistent point-in-time copies with support for granular data restoration. or Higher	М	
14.	Data Encryption:	The proposed array should be enabled for Data at Rest Encryption solution to encrypt data on all drives. Array should support either embedded automated key management with no user intervention at any time. Under no circumstances must the storage administrator, security administrator, or any other user be able to enable or disable encryption for any individual RAID group or individual drive.	M	
15.	Non-Disruptive Migration:	The proposed array should have the capability to non-disruptively migrate data from old generation of array (with in the same family of storage arrays). or Higher	M	
16.	Local Replication For Granular Recovery:	The proposed array must have capability to create up to 256 snapshots of a single source volume for granular recovery. Should have the capability to schedule creation, deletion and expiration of snapshots.	M	
17.	Local Replication Performance & Space Efficiency:	The proposed array must have capability to mount space-efficient snapshots or clones of single source volume for various purposes like reporting, backup, test & dev etc. This space-efficient snapshot solution should be based on redirect-on-write technology to minimize impact on production volumes.	M	

G	•	2 X ALL FLASH ENTERPRISE STORAGE (1 X PRIMARY SITE AND 1 X DR SITE)				
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value		
18.	Local Replication Refresh Production Copy:	The proposed array local replication solution should support incremental re-sync of source volumes to clones. or Higher	М			
19.	Remote Replication:	Should support replication of data across metro and global distances for disaster recovery. Required licenses for doing replication must be provided. If separate FCIP routers are required for asynchronous replication, then the same should be included in the BOM (2 Nos per site). Offered storage should support consistency groups or equivalent technology to keep the write order consistency. or Higher	М			
20.	Quality Of Service:	The proposed array should support QoS feature to assign priority to particular application/volume on the array. or Higher	M			
21.	Storage Management Software:	The proposed array should be supplied with native Storage management software with Web based GUI capable of generating customized reports, real time monitoring, historical performance data for analysis and trending, capacity utilization monitoring. or Higher	M			
22.	Monitoring & Reporting:	Proposed solution should also have web-based monitoring and management tool with support for 2 years of historical reporting. Software should support monitoring and reporting multiple storage system. Required on-prem software and hardware should be included in the solution. Vendor based software should be accessible from any internet connected device with mobile application support for iOS and Android through VPN. or Higher	M			
23.	Application Aware Automation & Orchestration:	Proposed storage solution should include software to automate and orchestrate application/databases data management - including but not limited to MSSQL, Oracle, SAP/HANA, Exchange etc. to create application / database consistent copy for multiple use cases including data repurposing, off-host backup, Test / Dev, Reporting etc. Proposed software should integrate with storage replication for application consistent disaster recovery. or Higher	M			
24.	Security Compliance:	Proposed storage must have Data at-rest Encryption utilizing FIPS 140-2 Level 2 SED drives, TLS 1.2 support, native SHA2 certificate support. or Higher	M			
25.	Licenses:	The proposed storage system must support thin-provisioning, Data reduction (Compression & deduplication), management, Storage Analytics, Snapshots, clones, Remote Replication & Data-at-Rest-Encryption features. Licenses for all these features should be factored from dayl for full supported capacity.	M			

	2 X ALL FLASH ENTERPRISE STORAGE (1 X PRIMARY SITE AND 1 X DR SITE)					
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value		
26.	Support Services	One (01) Years Next Business Day with onsite service and support.	M			
27.	Gartner Magic Quadrant:	Bidder must be listed in leader's quadrant of Gartner MQ report for All Flash storage for last 5 years. Bidder should propose their latest storage models and solutions in response to this RFP.	M			
28.	Snapshots	Proposed storage should have the ability to configure secure/immutable snapshots or Higher	M			
29.	Ransomware Protection	The Storage Solution must be able to integrate with external ransomware protection solution. The Storage Solution should be able to offer protection from ransomware via a real-time event analytics solution that analyses IO behavior to detect and alert to a ransomware/encryption attack or Higher	M			
30.	Training	5 days (on Job) training to configure, administrate and monitor the Storage for three officials	M			
31.	Product	The bidder is required to provide servers and storage from the same original equipment manufacturer (OEM). All supplied must be new, genuine, sourced through authorized distribution channels. Refurbished, used, or grey-market equipment will not be accepted	M			

NAS Storage

	2 X SCALE-OUT NETWORK NAS STORAGE (1 X PRIMARY AND 1 X DR SITE)				
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value	
1.	Architecture	Storage Should be Fully Symmetric and fully distributed clustered Architecture written for Scale-Out NAS operations for unstructured data or Higher	M		
2.	Controllers	Minimum 4 Active-Active Storage controllers/ Nodes. Nodes must be based on the Intel platform with minimum 2 Ghz processor and DDR5 RAM. or Higher	M		
3.	Performance	Storage must be capable to expand performance with capacity, linearly. Data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read and write operations.	M		
4.	Scalability	Must be upgradable to more than 250 numbers of Storage controllers/ nodes seamlessly, without any disruptions/downtime to production workflow or Higher	M		
5.	Host Connectivity Protocols	Must provide access for a variety of operating systems (Windows, Mac, Linux, UNIX) using all standard protocols: NFSv3, NFSv4, NFSoRDMA, NFS Kerberized sessions (UDP or TCP), SMB1 (CIFS), SMB2, SMB3, SMB3-CA, Multichannel, HTTP, FTP, NDMP,	M		

Sr.	2 X SCALE-OUT NETWORK NAS STORAGE (1 X PRIMARY		M or D Confirmed Va	
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
		SNMP, LDAP, HDFS, S3, ADS, NIS reads/writes. All protocols MUST be included		
		without additional licenses and hardware. or Higher		
6.	Host Connectivity Interfaces	Dedicated front end connectivity with Minimum 2 x 25 Gb ports with SFP+ optics per node	M	
7.	Back-end Interfaces	Dedicated back end connectivity with Minimum 2 x 25 Gb ports with SFP+ optics per node	М	
8.	Backplane	The backend internal connectivity (shoud support Dual 40/100G with QSFP+/QSFP28) between storage controllers/storage nodes should be using high performance 25 GigE network with no single point of failure. Dual/redundant switches with atleast 24 ports	М	
9.	Required Capacity	83TiB Effective capacity after applying data Protection Policy or Higher	M	
10.	Onboard cache	Must have minimum 512GB global, coherent, DRAM based cache across Storage controller/ node configured for read and write operations. This memory should be a pool of Globally Coherent Cache, by which all Storage Controllers/ Nodes can access each other's memory as single pool of cache. or Higher	M	
11.	Data Protection	Must be able to tolerate multi nodes and multi disk failure without losing data or Higher	M	
12.	Data Replication	Should be able to replicate to another offsite as per business requirement or Higher	M	
13.	File Sharing	Should allow simultaneous access to the same file/data via SMB and NFS for data sharing between Linux and Windows hosts or Higher	M	
14.	Client Load Balancing	Storage System should have capability to load balance client connectivity across these multiple controllers so that all clients gets distributed across all existing controllers/nodes to avoid any performance hotspot.	M	
15.	Licenses	All licenses must be perpetual	M	
16.	Investment Protection	Storage System quoted by the OEM to be in the Leaders Quadrant in the latest Gartner Magic Quadrant for Distributed File and Object Storage Arrays Report or Storage System OEM should be in the Top5 Global latest revenue report from IDC	M	
17.	Support Services	One (01) Years Next Business Day with onsite service and support.	M	
18.	Gartner Magic Quadrant:	Bidder must be listed in leaders quadrant of Gartner MQ report for All Flash storage for last 5 years. Bidder should propose their latest storage models and solutions in response to this RFP.	M	
19.	Snapshots	Proposed storage should have the ability to configure secure/immutable snapshots	M	
20.	Ransomware Protection	The Storage Solution must be able to integrate with external ransomware protection solution. The Storage Solution should be able to offer protection from ransomware via a real-time	M	

	2 X SCALE-OUT NETWORK NAS STORAGE (1 X PRIMARY AND 1 X DR SITE)					
Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value		
		event analytics solution that analyses IO behavior to detect and alert to a ransomware/encryption attack				
21.	Training	5 days (on Job) training to configure, administrate and monitor the Storage for three officials	M			
22.	Product	The bidder is required to provide servers and storage from the same original equipment manufacturer (OEM). All supplied must be new, genuine, sourced through authorized distribution channels. Refurbished, used, or grey-market equipment will not be accepted	M			

3.4 Software Specifications

Cloud with Security

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
	Class I. Dlatforms	Clared Districtions were by Oraca Carabian decide		
1.	Cloud Platform	Cloud Platform must be OpenStack based, with	3.4	
	Enterprise	Platinum or Gold members of the Open	M	
	License	Infrastructure Foundation.	M	
		Cloud Platform must adhere to HCI concept and include software defined storage with	M	
		include software defined storage with subscription from the same vendor for at least		
		one (01) year.		
		The Cloud Platform must include unlimited	M	
		quantity of Linux operating systems subscription	1V1	
		from the same vendor as cloud platform. The		
		Linux operating system should be listed and		
		approved by National Checklist Program (NCP),		
		defined by the NIST SP 800-70.		
		All licenses provided (Cloud platform, unlimited	M	
		Linux OS, software defined storage) must cover	1,1	
		all hardware offered, with no limitations of data		
		stored, virtual machines running or other		
		licensing limitations		
		The support level included for all products	M	
		(Cloud platform, unlimited Linux OS, software		
		defined storage) in proposals must include		
		access to support engineers during standard		
		business hours, and access 24x7 for high-		
		severity issues. The support must be provided by		
		software vendor (contributor) itself.		
		The software offered must have a lifetime and	M	
		active support of at least five (05) years.		
		Additionally, the platform must be possible to		
		upgrade to newer versions of software defined		
		offered without any loss of the current		
		environment at the time of upgrade.		
2.	Licenses	The licenses provided must cover all hardware	M	
	requirements	offered, with no limitations of data stored, users		
		quantity or any other licensing limitations		
		Licenses provided must have at least one (01)	M	
		years of renewals included		

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
3.	Platform requirements	Platform must support web-based management of the virtualized system by end user and operator	M	
		Platform must support upgrade in-place with no or minimal downtime.	M	
		Platform must monitor the operation of the given systems and equipment, should be able to generate reports based on the customer needs.	M	
		Platform must allow access to multiple resource pools, manages and provisions resources of a single hosting site and resource pools in a unified manner.	M	
		System should support high-performance ingestion for logs Log aggregation system should be scalable via adding new instances - Aggregated logs should support near real-time search, i.e. collected logs should be searchable very soon after generation. Search should support keyword search It should be possible to aggregate logs from different sources It should be possible to process logs and extract new fields if needed Log aggregation system should support creation of dashboards with relevant metrics	M	
		Platform must have the ability to integrate with internal and external systems to manage multicloud services.	M	
		Must be integrated with OpenStack and Kubernetes	M	
		Self-service functionality requirements	M	
		Must support adding of new custom service offerings allowing service provider to adjust the service offering attributes based on the need.	M	
		Must support integration with common service desk solutions which can be deployed onpremise.	M	
		Must support extension of allocated quotas and resources (incl adjusting the resource limits adding/removing resource components, changing project details etc) in dynamic way.	M	
		Must support user interactions via APIs for all of the control operations.	M	
		Must support generation of reports for end-users, which include details (like usage per service offering component, revenue estimations, invoicing history) of the consumed services. Reports must be available in self-service portal and can be downloaded in PDF and CSV format.	M	
		Must support integration of external identity providers over OIDC, SAML and LDAP protocols.	M	
		Self-service portal user interface should be English; with possibility to add additional languages without programming.	M	
		Must support automatic invoice generation based on consumed services and accounting models.	M	

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
4.	Deployment functionality	Deployment and management of the platform should be supported from the central server.	M	
		Changes to configuration should be logged and applied using configuration state management approach (i.e. declarative).	M	
		It should be possible to version and archive configuration of the core components of all systems.	M	
		The system should be deployable with High Availability, i.e. failure of a single node cannot lead to downtime or data loss	M	
		System should expose health endpoints for integration with external monitoring solution	M	
5.	Partner Compliance	Bidder's Partner should have Tier-3 certified constructed facility having OpenStack Cloud	M	
	1	Bidder have experience of deploying and managing OpenStack based public cloud since last 5 years	M	
		The Bidder must have atleast ten (10) Cloud Certified resources	M	
		The bidder have strong knowledge of Implementation, services integration and support	M	
		The bidder must have trained and certified in OpenStack Cloud	D	
6.	Monitoring and logging	All business events should be logged in a transactional way.	M	
		All services should expose a health endpoint	M	
7.	Training materials and	Documentation to provided solution must be submitted	M	
	documentation	All training materials (incl integration examples for different use cases) must be shared, and online training sessions in case of a need must be performed	M	
8.	Performance and Scalability	A very high scalable platform that can support different options for Sensors and Analyzers/Brains, supporting up to 500K IPs to be fully analyzed by AI in a one rack unit analyzer with the different Sensors types (Virtual, Cloud, Physical) and sizes.	M	
		Physical Sensors models that supports deferent throughput 2Gbps , 15Gbps , 30 Gbps , 50 Gbps through deferent capture interfaces options: 10G SFP+, 1G copper, SFP28 (10/25 G) or QSFP (40 G) or QSFP28 (100 G)	M	
		solution should support different SPAN / TAP traffic throughput upto 50 Gbps in a single sensor, and the ability to deploy multiple sensor in a single deployment	M	
		Have the option to deploy vSensors for the virtual environments (VMWare ESX, HyperV, KVM, Nutanix) with no additional cost	M	
		Have the option to deploy Cloud Sensors for IaaS (AWS, Azure, GCP) with no additional cost	M	
		Operate passive to the network i.e. not taxing network performance	M	

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
		Operate effectively and efficiently in an airgapped environment without external influence i.e people or other technology	M	
		The solution must be agentless	M	
		The solution must not require traffic decryption	M	
		all AI / ML engine should be fully onPrem without any cloud components	M	
		Ability to store the detections in the same Brain for 6 months along with it's sample PCAP	M	
9.	Detection and Analysis Automation	Automatically identify and classify threats, including attack phase and risk, without requiring any manual work to build/tune the use cases	M	
		AI/ML analysis and behavioral baselining must not be done locally on the sensor Level if there is multiple sensors deployed in the Organization, All AI/ML analysis should be done centrally on a centralized appliance collecting all security related Metadata from all distributed sensors	M	
		Must be on-prem and ability to work within air gapped environments	M	
		Must be AI/ML Behavioral based (signaturless) with the ability to support signature detections	M	
		Differentiate key assets from other hosts for risk prioritization	M	
		Possess a mechanism to automatically show the confidence of detection when threats are detected based on anomalies	M	
		Must have on single dashboard for detections that correlates Cloud/On-Prem/DC detections together automatically	M	
		Ability to automatically differentiate between general botnet behaviors and those that are more likely to be targeted threats	M	
		Ability to categorize the following Threats: Botnet behavior including spam, DDoS, external vulnerability scanning, Bitcoin mining, etc. Hidden tunnels within HTTP, HTTPS, DNS, ICMP used for command-and-control and data exfiltration. Without false positives due to standard beaconing from common tools and apps such as news tickers" will take out simple beacon detectors The use of algorithmically generated domains or DGAs Custom RATs (remote administration tools) from normal user traffic Unknown command & control (no reputation history) using other traffic attributes Data exfiltration independent of user identity or IP address Internal reconnaissance of an attacker Reconnaissance using slow or "paranoid" network scans Improper use of administrative and		
		management protocols, including RDP, SSH, iDRAC, and IPMI		Of

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
		 Activation of sub-OS rootkits using port hijacking Remote execution of procedure calls or code via SMB or DCERPC protocols Privileged access analytics use cases by observing the privilege for the (account, host and 		
		service). Automatically re-categorize behaviors that are caused by approved systems or usage, e.g. network scanners	M	
		Ability to automatically identify and outline attack campaigns	M	
		*Link attacker activity across multiple hosts to give comprehensive campaign view	M	
		*Advanced C&C detection is the foundation	M	
		*Detect all hosts that have connected to the C&C infrastructure	M	
		*Highlight relevant lateral detections between hosts	M	
		Solution must be protocol agnostic	M	
		Solution must provide an accounts-based view and prioritization based on threat and certainty scores	M	
		ability to create Host / account groups based on Regex within the same dashboard	M	
		Using the AI to do the Triage and eliminate the manual work from the security teams and saving time and help the security teams to focus on what matters.	M	
10.	Cyber Security Prioritization	Automatically score and prioritize each individual attacker behavior detected	M	
	and Investigation of Threats	Automatically score and prioritize each host/account based on its behaviors over time (Focus on Attacker progress prioritization not just single event prioritization using AI)	M	
		Use the AI to do the prioritization based on attacker progression over the time.	M	
		Ability to notify staff based on the threat score	M	
		Provide elevated visibility of key assets with identified attacker behaviors	M	
		Provide individual scores for both threat and certainty / confidence	M	
		Provide visibility into host interconnectivity	M	
		Provide packet captures of identified attacker behaviors for analysis	M	
		Have the ability to find commonalities across multiple devices in the network and present it in a coherent attack campaign of all hosts participating in the campaign	M	
11.	Detection Methodology	Directly identify threats, based on network traffic analytics and depend on the behavioral models to find known and unknown without the need to decrypting the traffic. regardless of the signatures, IoCetc.	M	
		should be capable of suggest some detections to be whitelisted based on AI analysis to reduce the overhead of the SOC team	M	

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
		Platform should use AI to whitelist benign activities in a fully automated way	M	
		Cover more than 90% of the MITRE ATT&CK network-based attackers Tactics with full	M	
		documentation on all detection use cases and MITRE mapping		
		The platform must have more than 10 patents that are referenced in MITRE D3FEND (Network Traffic Analytics)	M	
		Vendor must be recognized as leader or customer choice in the latest Gartner report	M	
		Ability to detect network-based threats within encrypted traffic without the need of decryption	M	
		Detect custom or unknown threats, where there is no signature or IP/domain reputation history based on behavior	M	
		Solution to Focus on Attackers Behaviors (TTPs) not just simple anomaly models with generic ML approach.	M	
		Solution to be applicable across all user and infrastructure devices (Windows, Mac, mobile devices, BYOD, IoT, routers, firewalls)	M	
		Use multiple behavior techniques (Supervised Learning, Unsupervised Learning, Deep Learning), with a proof from third part reports (Gartner)	M	
		Solution Must be referenced	M	
		Solution must not use signature-based methodology for detection	M	
		Solution must have the ability to analyze and correlate network traffic: North, South, East, West traffic	M	
		Solution must secure the data center within the virtual environment as well as the underlying infrastructure	M	
		Automate threat hunting at wire speed	M	
		Ability to perform matching on IOCs introduced via STIX	M	
		A platform approach to depend mainly and focus on security research and data science.	M	
		The platform must be a privilege-aware platform (Host, account, and service privilege) that will learn it automatically and be used in Privileged Access Analytics. Using observed privileges to strengthen zero-trust access.	M	
12.	Cloud (IaaS, PaaS SaaS)	Support the coverage of the AWS/AZURE/GCP Cloud workloads IaaS	M	
	- und build)	Securely deploy services, applications and storage instances across multi-cloud and hybrid footprints	M	
		Ability to feed Cloud activity into your data lake or SIEM to correlate with on-prem detections	M	
		The solution must have the capability to detect the attacker behaviors in the kill chain in the AWS/AZURE (for example, and not limited to AWS Lambda hijacking, AWS suspect privilege escalation)	М	

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
13.	Global / Local Modeling of Threats	Incorporate learnings from global attacker behaviors and techniques to detect threats on the local network whenever possible	M	
		Global modeling of threats to be combined with local network learning to improve accuracy and relevance for the local network	M	
		Detect potentially malicious anomalies based on deviation from learned local norms within the network	M	
		Continually learn as the network and usage evolves	M	
		Ability to detect threats within new devices or devices that were already compromised when baselined	M	
		The solution must not use a generic approach to build it's unsupervised models	M	
14.	Analysis	Maintain smart network packets capture detected attacker behaviors	M	
		Must not decrypt the traffic in order to analyze	M	
		Solution must not use NetFlow/Logs as a data source	M	
		Solution must use raw network traffic for real-time analysis	M	
		Utilize Artificial Intelligence capabilities to augment and automate SOC operations	M	
		Provide limited time links of Hosts or Events for analysis by non-system users.	M	
		Automate analysis to identify attacks	M	
		Ability to provide time-limited access to a specific event in the system with others without creating an account	M	
		All information about detections and hosts available via RESTful API to support automation	M	
15.	Types of Threats	- Detect the following type of	M	
	Detected	threats(not limited to): - Remote access tunnels used by attackers to control compromised systems - Hidden tunnels over HTTP, HTTPS, DNS, ICMP to communicate with C&C or to		
		exfiltrate data - Web-based Command and Control (not relying on IP reputation or threat lists) - Malware being updated		
		Multihomed domain fronting.Relay hosts.		
		 Malware getting new instructions Malware replicating a payload to / exploiting vulnerabilities against other hosts TOR Anonymization 		
		- Peer-to-peer traffic - Botnet monetization behaviors: Click Fraud, Bitcoin Mining, outbound DoS, outbound SPAM		
		Ransomware activity: encrypting file shares Network reconnaissance scans: port scans, port sweeps, scanning unused IPs. detect milicious DC activity in the network		
	<u>I</u>	2 State of the first of the fir	<u> </u>	Of

	- Privilege anomaly: to find use cases realter Privilege escalation, accounts take over, credentials theft and misuse Use of a stolen credential from a host it has not previously been used on - Use of a stolen credential from its normal system, but asking for unusual services or in excessive volume - A host trying many credentials to attempt to gain access to a server - Kerberos service scans - Fake Kerberos servers - Brute force attacks - RPC reconnaissance - Use of administrative protocols, including RDP, SSH, IDRAC, and IPMI, where the target host is not typically administered by the source host on that protocol - Activation of a sub-OS rootkit using an "knocking" byte sequence on a common port - A host gathering unusual volumes of data and then sending exfiltrating to an external IP		
	- A host being used as a relay to exfiltrate data		
on and		D	
	Ability to detect AD/LDAP reconnaissance	D	
	Ability to detect use of PowerShell/WMI and RPC to move laterally via remote code	D	
		D	
		D	
	· · · · · · · · · · · · · · · · · · ·	D	
	Ability to detect the use of PS exec and other remote administration tools to move laterally via SMB	D	
	A host being used as a relay to exfiltrate data to an external system. A host being used as a relay for command-and-control purposes to gain access deeper into the network	D	
	Must natively integrate with some EDR Vendors, also have an API capable of integrating with others when needed. to support host lock down and enrich host dashboard	M	
	Must natively integrate with some SIEM/Data Lake Vendors like (Splunk, Qradar, Azure Sentinel, ELK) and must have native Applications and dashboards within the SIEM	M	
	Must natively integrate with TAPs	M	
	Most integrations for response with EDR / FW / NAC / SOAR / AD without any additional license/Cost using APIs and directly on the same user interface	M	
	Account Lock down: Must natively integrate with AD: To allow immediate, customizable account enforcement via Active Directory	M	
	on and e.	credentials theft and misuse. Use of a stolen credential from a host it has not previously been used on - Use of a stolen credential from its normal system, but asking for unusual services or in excessive volume - A host trying many credentials to attempt to gain access to a server - Kerberos service scans - Fake Kerberos servers - Brute force attacks - RPC reconnaissance - Use of administrative protocols, including RDP, SSH, IDRAC, and IPMI, where the target host is not typically administered by the source host on that protocol - Activation of a sub-OS rootkit using an "knocking" byte sequence on a common port - A host gathering unusual volumes of data and then sending exfiltrating to an external IP - A host being used as a relay to exfiltrate data to an external system on and Ability to detect enumeration of file shares e. Ability to detect use of PowerShell/WMI and RPC to move laterally via remote code execution Ability to detect use of stolen RDP client tokens Ability to detect reconnaissance of RPC servers Ability to detect reconnaissance of RPC servers Ability to detect the use of PS exec and other remote administration tools to move laterally via SMB A host being used as a relay to exfiltrate data to an external system. A host being used as a relay for command-and-control purposes to gain access deeper into the network Must natively integrate with some EDR Vendors, also have an API capable of integrating with others when needed. to support host lock down and enrich host dashboard Must natively integrate with some SIEM/Data Lake Vendors like (Splunk, Qradar, Azure Sentinel, ELK) and must have native Applications and dashboards within the SIEM Must natively integrate with SIEM Must natively integrate with some siem/Data Lake Vendors like (Splunk, Qradar, Azure Sentinel, ELK) and must have native Applications and dashboards within the SIEM Must natively integrate with TAPs Most integrations for response with EDR / FW / NAC / SOAR / AD without any additional license/Cost using APIs and directly	credentials theft and misuse Use of a stolen credential from a host it has not previously been used on - Use of a stolen credential from its normal system, but asking for unusual services or in excessive volume - A host trying many credentials to attempt to gain access to a server - Kerberos service scans - Fake Kerberos servers - Brute force attacks - RPC reconnaissance - Use of administrative protocols, including RDP, SSH, IDRAC, and IPMI, where the target host is not typically administered by the source host on that protocol - Activation of a sub-OS rootkit using an "knocking" byte sequence on a common port - A host gathering unusual volumes of data and then sending exfiltrating to an external IP - A host being used as a relay to exfiltrate data to an external system on and Ability to detect AD/LDAP reconnaissance using techniques similar to Bloodhound Ability to detect use of PowerShell/WMI and RPC to move laterally via remote code execution Ability to detect reconnaissance of RDP servers Ability to detect treconnaissance of RDP servers Ability to detect treconnaissance of RPD servers Ability to detect reconnaissance of RPC servers Ability to detect the use of PS exec and other remote administration tools to move laterally via SMB A host being used as a relay to exfiltrate data to an external system. A host being used as a relay for command-and-control purposes to gain access deeper into the network Must natively integrate with some EDR Vendors, also have an API capable of integrating with others when needed, to support host lock down and enrich host dashboard Must natively integrate with some SIEM/Data Lake Vendors like (Splunk, Qradar, Azure Sentinel, ELK) and must have native Applications and dashboards within the SIEM Must natively integrate with TAPs Most integrations for response with EDR / FW / NAC / SOAR / AD without any additional license/Cost using APIs and directly on the same user interface Account Lock down: Must natively integrate with AD: To allow immediate, customiza

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
		and avoid service disruption by disabling accounts (auto and manual)		
		Must natively decapsulate the VxLAN/GRE traffic.	M	
17.	Operations	The solution must have the ability to automatically update. To reduce the operational burden of the solution, software updates must be an automated process that doesn't require any human intervention.	М	
		Software system should be updated with a regular frequency to adapt to the constantly evolving threat landscape.	M	
		When suspicious activity is identified and alerted upon it is critical that the system provide appropriate commentary around the detection including appropriate triggers as well as steps to verify and where to begin potential remediation.	M	
		The solution must enrich it's metadata/detections/hosts with the info that will help improve the IR approach, natively and without complex integrations (Host IID)	M	
		The system must meet ALL of the mandatory requirements without a VPN or cloud connection into the environment or any customer identifiable information being sent externally.	M	
		In order for a fully effective deployment the solution must not require any third party object configuration changes (except for span/tap/mirror) such as adding additional locations for logging destinations.	M	
		Must be able to provide health monitoring via email and syslog.	M	
		Must be able to alert on individual threats or suspicious hosts via email and syslog	D	
		Must provide granular role-based access control (RBAC) into the various elements of the product so security analysts can define custom roles with limited access if desired	D	
		Must have the ability to send audit log over syslog for actions such as login, logout and changes to settings that impact the security posture of the product	D	
18.	Clear AI Approach for addressing the attacker's behaviors not just simple anomaly	The EDR Vendor must provide a detailed explanation on their AI approach that is published publicly on how the address the attacker's behaviors (not just a simple anomaly, that's noisy)	M	
19.	On-prem AI/ML engine (Brain)	The NDR platform must have it's AI/ML engine (brain) on-prem and can work in an air-gaped environment	M	
20.	Provides a Clear list of the AI/ML Detection Coverage	NDR Vendor must provide a clear list of the AI/ML models it covers and a detailed description of it	М	

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
21.	Detect Attackers Behaviors without Decryption	Ability to detected the attacker's behaviors that is blended in the normal traffic with the need of the dependency of the decryption to find the unknown	М	
22.	Privilege Aware Platform	The Platform should have the capability to learn the observed privilege of the assets (hosts/accounts/services) and provide a set of behavioral models related to the privileged access analytics, automatically and without the need of any manual configuration	M	
23.	Analyses all the attack sufface using the AI/ML (no just the crown jewels)	Gives visibility on all attackers' behaviors in all the attack surfaces and all assets, not just the crown jewels, applying the zero-trust concept to all attack surfaces	D	
24.	Scalability	A very high scalable platform that can support different options for Sensors and Analyzers/Brains, supporting up to 500K IPs to be fully analyzed by AI in a one rack unit analyzer (up to 75Gbps) with the different Sensors types (Virtual, Cloud, Physical) and sizes.	D	
25.	Native Integration with the existing ecosystems	NDR Platform must have the capability to natively and easily integrate with the existing ecosystem EDR, NAC, SIEM, SOAR, FW	D	
26.	Native Integration with the Active Directory	* Account Lock down: Must natively integrate with AD: To allow immediate, customizable account enforcement via Active Directory integration. by surgically freeze account access and avoid service disruption by disabling accounts (auto and manual) * Enrich the Host/Accounts dashboard with AD context	D	
27.	SoC Workload Reduction	The NDR platform to integrate with SoC workflow and reduce the workload on the security analyst with an average of 34 times	D	
28.	Reduce the number of events analyzed by the security analyst on daily basis	Part of the Soc Workflow, The NDR is expected to the Make the workload on the security analyst minimal on daily basis, focusing on what matters, instead of looking at 100's events that are irrelevant and false positive (1-3 hosts/day)	D	
29.	Reduce the Meat time to Detect (MttD)	Using the AI approach to give clarity on the attacker's signal in the early stages of the attack to stop the threats from becoming a breach (Reducing the Attack Dwell time)	D	
30.	Reduce the Mean time to Respond (MttR)	Provide an AI enriched metadata that helps the security teams to do forensics at speed, and give the chance to correlate it with the other events in the SIEM	D	
31.	Mitre ATT&CK Coverage	NDR Platform must have a wide coverage to the attckers TTPs in MITRE (More than 95%)	M	
32.	Patents Referenced in Mitre D3FEND	The NDR should have a patents referenced in Mitre D3FEND	M	
33.	AI-driven detections	Real-time Behavior-based detections in that is signatureless and not just simple anomalous	M	

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
		events, but more into focusing what is the TTP used by the attacker		
34.	AI-driven prioritization	Correlates the events to Hosts/Accounts and uses the AI to prioritize based on the combination of behaviors and attacker progression over the time to amplify the attacker signal	M	
35.	AI-driven triage	Using AI to whitelist the events that are considered benign behaviors eliminates the manual work of the security analyst and makes the attacker's signal clear.	M	
36.	AI-enriched Metadata	Enrich the Metadata using the AI and other attributes (Static and dynamic driven) that will make the metadata more user-friendly and timesaving when it comes to Incident Response, Threat hunting, forensics, network visibility, and building custom use cases.	M	
37.	Cyber Security Focused Metadata	The NDR Must not have any metadata related to NPM or any irrelevant data that will distract the security teams	M	
38.	Flexibility to forward the metadata to a 3rd party data-lake	NDR Vendor must not force the End-user to have a specific storage/appliance from from the same NDR Vendor to retaining the metadata, however the NDR vendor must give the end-user the flexibility to forward the metadata to a 3rd party data-lake	M	
39.	Attack Surface Coverage	The NDR have the capability to cover all the attack surfaces: 1- Identity: Active Directory, Azure AD 2- Network: Campus, DC, IoT 3- Virtual Environments: VMWare, Hyper-V, KVM, Nutanix 4- SaaS: M365/AWS 5- IaaS: Azure/AWS/GCP	M	
40.	Time to value	Plug-N-Play platform to get the value immediately without the need of a heavy deployment workload	M	
41.	Network Visibility	Visibility on all assets inside the network (Hosts, IoT, Servers) and provide the network visibility on the metadata	M	
42.	Usability and Ease of Use	 Intuitive UI makes products easy to use without documentation In-product information helps analysts 	M M	
		 In-product information helps analysts understand attacker behaviors Product naturally guides the user to uncover 	M	
		meaningful threats • Provides the necessary context for	M	
		understanding incidents • Advanced threat hunting via powerful interface	M	
		 and data enrichments Simple and rapid deployment across any enterprise of any size 	M	
		Seamless, automatic, zero touch updates	M	

Data Consistency Software

	Automated Data	Product needs to identify data inconsistencies at		ı
	Validation and	source and target system	M	
	Anomaly Detection	Solution should easily detect anomalies and create alerts according to predefined thresholds	M	
		and rules. Analyze datasets to identify data anomalies	M	
		without preset rules, leveraging statistical algorithms and AI.		
		Provide automated data consistency continuously or interval monitoring capabilities.	M	
a	Data Consistency and Cross- Domain	Monitor data population trends between multiple data sources or systems based on predefined business rules.	M	
	Comparisons	Support cross-domain comparisons, such as database-to-database and database-to- file.	M	
		Enable internal/external database comparisons (different data layers or connections).	M	
		Facilitate cross-domain comparison between diverse formats (e.g., Database to Database, Database to File).	M	
	Integration Capabilities	Solutions must be integrated seamlessly with enterprise schedulers and multiple database systems.	M	
		Solution must be compatibility with databases like Oracle, MS SQL, Hadoop, PostgreSQL, Netezza, HANA, and MongoDB, and ability to read files.	M	
		Ability to trigger Stored Procedures, send web service calls, and send email notifications.	M	
		Solution must be capable to integrate with any REST API over standard protocols.	M	
		Provide integration interfaces based on Web Services technology for publishing or consuming services.	M	
		Enable querying of integrated business, process, and technical metadata in a centralized repository.	M	
	Performance and Scalability	Handle large volumes of data efficiently without compromising performance.	M	
	·	Architected with a microservices approach as an orchestrated set of HTTP-REST services.	M	
		Support distributed job dispatching and collocated processing.	D	
		Enable distributed in-memory data caching to optimize operations.	D	
		Ensure solutions avoid blocking or performance issues during simultaneous data refresh and query operations.	D	
	User Interface and Usability	Provide a browser-based web interface for system administration activities.	D	
		Offer an intuitive, easy-to-navigate platform for managing the solution.	D	
		Enable easy self-service data preparation for end-users.	D	
		Solution must allow users to create, define, update, and delete data sets and rules, as well as view available use cases (rules).	D	

Sr. No.	Parameters	Requirement Criteria	M or D	Confirmed Value
6.	Monitoring, Reporting, and	Include an alerting report and monitoring utility for data pipelines.	D	
	Audit	Generate reports for total executed rules, rule statuses, and success details.	D	
		Maintain audit or diagnostic logs for management-related and data-related activities.	D	
		Provide log management and auditing for all critical activities.	D	
7.	Infrastructure and Security	Ensure role-based access controls for account- related and data-related activities.	D	
		Support various user data sources, including SQL databases and LDAP.	D	
		Implement user access management with auditable logs (user ID, date, and time).	D	
		Use HTTPS protocols exclusively for secure web access.	D	
		Solution must ensure to utilize SSL/TLS-based communication for data transfer.	D	
8.	Test and Migration	Support unit tests, functional tests, regression tests, reconciliation, and other test processes.	D	
	Support	Enable end-to-end traceability and root cause analysis for issues.	D	
		Save test efforts for migration projects or assessing new development impacts on existing platforms.	D	
		Conduct cross-checks between Source-ODS- Target systems during and after ETL processes to detect inconsistencies.	D	

Standard Software

des M	
	se / Datacenter editions (for 7 x nodes M
ance M	3 x Instance M
odes M	n with one (01) year Thrive 18 x nodes M cloud (VMware, OpenStack, Endpoint Security for Servers, Endpoint Security for Linux, MOVE Enterprise (includes: brm), Network Visibility and
	Endpoint Security for Servers, Endpoint Security for Linux, MOVE Enterprise (includes:

Connectivity

CONNECTIVITY					
Sr. No.	Parameters	Requirement Criteria	M or D		
1.	The Internet Service over Redundant Optical Fiber Connectivity of 50		M		
2	Mbps for One (1) Year for each Site is required. The Primary & Backup Site connectivity is P2P of 50 Mbps.		M		

	CO-LOCATION & CONNECTIVITY SERVICES				
Sr. No.	Parameters	Requirement Criteria	M or D		
1.	The Co-location and Connectivity Services for Primary Site & DR Site is required by Tier-1 ISP holding international connectivity two or more and Tier-III/Rated or higher certified by Uptime Institute Tier Certification of Design Documents (TCDD), Tier Certification of Constructed Facility (TCCF), or Tier Certification of Operational Sustainability (TCOS) constructed facility for Primary site as well as for Backup Site.		M		
2.	The Backup Site is far location at geolocation distance of approximately 160 KM or more.		M		
3.	The Co-location Service Provider should provide the 24-Hour Help Desk.		M		
4.	The Co-location Service Provider should also have at primary site Meeting Room.		M		
5.	The Clearly defined support and escalation procedures in place.		M		
6.	At least One (1) Resident Engineer deputed at each Site for One (1) Year in 9 AM to 5 PM timing for the support of whole solution.		M		
7.	The Service Provider must have provided facility in Karachi.		M		

Support, Maintenance, Warranty and Service Level Agreement:

Sr. No.	Parameters	Requirement Criteria	M or D
1.	The whole solution includes,		M
	• The one (01) year, Next Business Day support, maintenance, warranty, and service level agreement.		
	All SLA/support must be backed by OEM back-to-back alignment.		
	The OEM must have local spare house depots in leading cities of		
	Pakistan, especially in Karachi.		

PROPOSED HIGH LEVEL DIAGRAM / REPORT FOR ESTABLISHMENT OF CO-LOCATION / CLOUD SERVICES OF IT INFRASTRUCTURE AT PRIMARY AND BACKUP SITE:

PF	PROPOSED HIGH LEVEL DIAGRAM / REPORT FOR ESTABLISHMENT OF CO-LOCATION / CLOUD SERVICES OF IT INFRASTRUCTURE AT PRIMARY AND BACKUP SITE:				
Sr. No.	Parameters Requirement M or D Criteria				
1.	The whole solution includes,		M		
	• The proposed report covers the whole idea, how to interconnect				
	the Co-location / Cloud Services of IT Infrastructure between the				
	Primary and Backup Site.				

E. TESTING AND QUALITY ASSURANCE REQUIREMENTS

4.1 Inspections

4.1.1 & 4.1.2

The following inspections and tests shall be performed:

- i. The Purchaser or its representative shall have the right to inspect and/ or to test the Goods to confirm their conformity to the Technical/ Contract specifications at no extra cost to the Purchaser.
- ii. 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/ production data (if any/ applicable) and online verification from official web site of the Manufacture, shall be furnished to the inspectors at no charge to the Purchaser.
- iii. Should any inspected or tested Goods fail to conform to the Specifications, the Purchaser may reject the Goods, and the Supplier shall replace the rejected Goods as per mutually agreed timelines as per specification requirements free of cost to the Purchaser.
- iv. The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at the Purchaser's delivery point shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Purchaser or its representative prior to the Goods' shipment from the factory/ warehouse.

4.2 Pre-commissioning Tests

- 4.2.0 In addition to the Supplier's standard check-out and set-up tests, the Supplier (with the assistance of the Purchaser) must perform the following tests on the System and its Subsystems before Installation will be deemed to have occurred and the Purchaser will issue the Installation Certificate(s) (pursuant to GCC Clause 26 and related SCC clauses).
- i. Load testing: This involves simulating heavy traffic or user loads to test the system's ability to handle high volumes of data or users.
- ii. Performance testing: This involves testing the system's performance under different conditions to ensure that it meets the required performance standards.

4.3 Operational Acceptance Tests

- 4.3.0 Pursuant to GCC Clause 27 and related SCC clauses, the Purchaser (with the assistance of the Supplier) will perform the following tests on the System and its Subsystems following Installation to determine whether the System and the Subsystems meet all the requirements mandated for Operational Acceptance.
- 4.3.1 As series of test as mentioned at pre-commissioning test shall be considered for OAT.

F. SERVICE SPECIFICATIONS – RECURRENT COST ITEMS

5.1. Warranty Defect Repair

- 5.1.1. The Supplier MUST provide the following services under the Contract or, as appropriate under separate contracts (as specified in the proposal documents).
 - 5.1.1.1. The Cloud and HARDWARE infra software should have one (01) year of warranty/ software subscriptions from the date of the implementation/ commercial lunch
 - 5.1.1.2. All Services will perform substantially in accordance with the features and functionalities described in the Documentation and as described in the RFP and Agreement
 - 5.1.1.3. Supplier shall be responsible, for the period during which all (Cloud & HARDWARE) Services are provided, the Services shall function in accordance with the applicable Program Documents and that the Applications shall be free from material program errors and shall function substantially in accordance with the Documentation.
 - 5.1.1.4. The warranty shall apply to the extent that Customer permits the installation of all fixes, new releases, hardware and software updates recommended by OEM. The warranties concerning availability of the Environment are documented in the relevant Cloud/HARDWARE Program Documents.
 - 5.1.1.5. Preventive and corrective maintenance in the respect of system and its auxiliaries must be carried out on monthly basis throughout the SLA period and Monthly PM and CM reports shall be submitted to CLICK on specified format in hard/email/fax
 - 5.1.1.6. Supplier shall warrant that during the term of contract the Services will performed in a professional and workmanlike manner and without any unscheduled Downtime.
 - 5.1.1.7. For purposes of all services warranty "Downtime" shall mean any interruption in the availability of the all/ any services to customer if such interruption is due to a material error in the product or a failure of the any system, provided that Downtime shall not include scheduled interruptions of which Customer is notified at least 48 hours in advance, maintenance window, or problems associated with Customer's Internet connectivity to the Cloud and HARDWARE Product or Designated Systems.
 - 5.1.1.8. Supplier shall warrant to end user:
 - (i) that commercially reasonable efforts will be made to maintain the online availability of the all services for a minimum of availability in any given month as provided in the chart below (excluding scheduled outages, events beyond the reasonable control of Converge, and outages that result from any End User technology issues); and
 - (ii) the functionality or features of the Services may change but will not materially decrease during an agreement Term.
 - The Warranty Period of the overall solution shall start from the date of issuance of FAC (Final Acceptance Certificate) of the solution.
 - 5.1.1.9. The Supplier during the Warranty period MUST cover the following

activities:

- i. The Supplier should rectify the problem if the solution does not run smoothly at optimal performance levels.
- ii. The Supplier should provide bug fixes to ensure that any issues with the solution are addressed and resolved.
- iii. The Supplier should ensure that disaster recovery drill is operating during the warranty period.
- iv. The Supplier should undertake performance monitoring services to detect and address performance issues with the solution.
- v. The Supplier should rectify any integration problem with other software and systems.
- vi. The Software releases and any supporting Documentation will be made available from the Principal's website.
- vii. The Purchaser should be able to:
 - a. Access the OEM Technical Assistance Center (TAC), 24 x 7 x 365 knowledgebase and ability to open support cases (with defined priority) along with history, patch upgrades, software downloads, maintenance, product updates, license details, deployment details, usage details, along with issue resolution details and procedures.
 - b. Access Principal's website system, which provides Customer with helpful technical and general information on Principal Products as well as access to Principal's online portal.
- viii. Supplier shall bear the costs related to delivery of repaired / replaced goods or parts.

5.1.2. Operational arrangements for warranty period

- i. 24-hour a day local support from supplier and international support from expert technicians via internet or phone/fax till the problem is completely resolved or backup is provided and restored.
- ii. Technical assistance via Principal website or on telephone if supplier is unable to resolve the issue within 24 hours.
- iii. Provide complete system support with technical staff located on-site during the warranty period.
- iv. Responsible to maintain a logbook for each incidence, record the work done at each visit and get it verified by the Purchaser. All defects, replacement of parts, work done etc. shall be recorded. The format of logbook will be mutually agreed between Supplier and Purchaser.
- v. The Supplier shall submit the following reports to Purchaser on a quarterly basis, which should be submitted as a supporting document for warranty activities:
 - i. Routine visit report
 - ii. Fault calls reports.
 - iii. Rectification Report.
 - iv. List of replacement / repair of parts.
- vi. If the Supplier, having been notified, fails to remedy the defect(s) within a reasonable period, Purchaser may proceed to take such remedial actions as may be necessary, at the Supplier's risk and cost and without prejudice to

any other rights which Purchaser may have accrued or will accrue to Purchaser against the Supplier under the Contract.

Level	Event	Description	Response time	Maximum time for resolution	LD imposed on the quoted item cost
L1	Severe	Complete Outage of Service / appliance due to malfunctioning of hardware components or software components, firmware, patch cords etc.	30 minutes	24 Hours	1.5%
L2	Critical	Partial Outage of service / appliance due to malfunctioning of hardware components or software components, firmware, patch cords, spare parts etc.	3 Hours	30 Hours	1%
L3	High	Delay in commissioning of advance services / patches deployment / IOS up gradation / new configuration etc.	1 day	48 days	0.5%
L4	Moderate	Tagging, rep orts submission, delay in preventive maintenance etc. delay in deployment of new upcoming version and patches etc.	3 working days	5 working days	0.25%

Note: Every lap of restoration time shall be counted as additional violation.

5.2. **Technical Support:**

The Supplier MUST provide the following services under the Contract or, as appropriate under separate contracts (as specified in the proposal documents).

- a) Preventive maintenance in respect of system and its auxiliaries.
- b) It will be the responsibility of the selected supplier to deploy the equipment
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- related firmware and any IOS patch as an when released by product principle during warranty period.
- c) Supplier will be responsible to ensure the uptime of all the equipment on sites. In case of fault in equipment, the supplier is required to provide the Backup equipment of equal capacity and ensure the service quality as per time mention in below table.
- d) The selected supplier shall maintain staff as mentioned in 5.3 during.
- e) In case of corrective maintenance, proposer will submit its Trouble Ticket in which all the details are mentioned Time Occurrence, Issue resolve time, issue description and issue required parts with a service report

5.2.1. Service Level Agreement

The selected proposer should provide following personnel's who will be responsible for the provision of the 24x7 Incident Response / Forensic services. The selected proposer shall offer 24x7 SOC Operations, 24x7 Always-on Service, Security monitoring and alerting of suspicious behavior. The selected proposer will offer a comprehensive SLA but not limited to response plan for particular incident, integrated incident response capabilities, semi-automated Incident Response, automated Incident Response via IR Playbooks, Detection using big data analytics AI- based Internet Access Profiling, Risk scoring for users and entities, Detection of Malware/RAT- based Command & Control (CnC) communication, Detection of unknown malwares and patterns, remediation verification, ticketing / service management, service web portal for Customer Access. Further following is the classification for L1, L2 and L3.

- L1 Core Service outage (i.e. CMP, cloud stack, billing, CRM, Network integration, HARDWARE integration, storage integration)
- L2 Core sub-service outage (service outage from CLICK cloud portal catalog) or security breach at core or user data damage at core
- L3 Service outage at university
- L4- end service outage or end user service provisioning at core
- i. The selected proposer shall monitor security events on 24x7 basis to detect attacks and predict potential threats and raise alerts for any suspicious events that may lead to security breach in CLICK environment.
- ii. The offered solutions shall provide an acceptable false positive rate of detection not exceeding 5% of total alerts raised.
- iii. The selected proposer must provide standard reports, configurable in accordance with CLICK requirements and be available at predefined intervals (i.e., Daily, Weekly, Monthly) along with ad-hoc reports for significant events or incidents. The proposer must offer SOC reports, Incident Reports, Forensic Reports, Threat Hunting Reports, and any other reports that are part of the solution.
- iv. The selected proposer should offer continuous monitoring of service response levels and key performance indicators (KPIs) through graphical views and reports.
- v. The selected proposer must offer email notifications to identified CLICK staff and graphical/visual notifications on the solution's dashboard(s).
- vi. The selected proposer must offer the ability of creating tasks in the course of security incident resolution enabling the CLICK to monitor and follow-up on the appropriate remediation actions.
- vii. The proposer will be responsible to provide,
 - Onsite support through a dedicated resource as per staffing details mentioned

- above along with the working hours mentioned above to CLICK for implementation, operations and maintenance of the solution and analysis, reporting, troubleshooting, scanning, assessment, remediation through the solution as per its specifications mentioned in the purchaser's requirement.
- The onsite resource will also assist and train CLICK relevant resources along with the resolution of issues, ensuring knowledge transfer and high support standards.
- Technical on-call support
- Technical support via remote sessions as and when required.
- Online support through a ticketing system along with access to online OEM
 customer portal (24x7x365) for knowledgebase and support cases along with
 history, patch upgrades, software downloads, maintenance, product updates,
 license details, deployment details, usage details, as well as reporting
 dashboards along with issue resolution details and procedures.
- viii. The resources must be certified for the proposed tools.
 - ix. proposer must depute minimum below SLA team for O&M of cloud infra, services, services expansion, end user management, NOC staff
 - x. The SLA will be based on 4 levels with following details,

				%Age of SLA invoice		
Level	Event	Event Response time*	Maximum time for resolution*	amount per SLA		
Level		Response time	Waximum time for resolution	Breach (from monthly		
				SLA invoice)		
L1	Severe	1/2 hour	2 Hours	5%		
L2	Critical	1 Hours	6 Hours	2.5%		
L3	High	12 hours	1 day	1		
L4	Moderate	1 day	2 days	0.5%		

*days include working and non-working days

- Severe means, service or application rendered unavailable or unresponsive, virus
 or malicious activity outbreak, requires constant restarting, or results in
 irretrievable corruption or loss of data, non-functioning of major application/
 critical business, device not scanning, or device blocking traffic affects business
 continuity and or causes the Product(s) or OS crash, insecure default settings,
 security issues with no workaround available and requires immediate fix.
- Critical means, Sub-component of a major application not functioning as documented, degradation of services, partial or limited-service availability, Major performance degradation.

- High means, application not functioning as documented, an issue affecting the product functionality but does not cause data corruption / loss or software crash and/ or system down.
- Moderate means General usage question, General information requests, Feature requests
- xi. The proposer should observe clearly define all the different timeframes (depending on the incident's severity) within which each incident will be escalated, along with its recommended actions, to the CLICK. Those timeframes should refer to the total time required from the moment raw logs reach SOC team until the incident is escalated to the CLICK, including all intermediate actions such as any internal analysis and manual validation of the correlated events, any internal escalation procedures and the time required to define the recommended mitigation action.
- xii. For severe events, the proposer should commit to a 1-hour SLA for escalating the incidents.
- xiii. The 1-hour timeframe starts at the collection of logs timestamp and must include as a minimum:
 - the analysis of the event,
 - the verification
 - the identification of actions and recommendations
 - the escalation to the CLICK via a detailed incident case in the SIEM solution workflow.
- xiv. The notification of involved parties according to an, approved by the Client, Incident Escalation and Response procedure.
- xv. The selected proposer should clearly define and describe all the different methods (depending on the incidents severity) by which each incident will be escalated, along with its recommended actions, to the CLICK. (i.e., Web Console, mail etc.).
- xvi. The selected proposer should provide a documented and detailed incident analysis and recommended mitigation actions (guidelines), through the solution dashboard (s)/ service portal when reporting an incident.
- xvii. The selected proposer should provide full incident response, analysis, and investigation along with CLICK's predefined POC(s), until the incident has been fully resolved when an incident is reported. The solution must facilitate incident response resolution via follow-up ticketing until the incident has been fully resolved. The selected proposer shall continue to monitor the specific incident for reoccurrence for a minimum period of one month after the incident has been fully resolved.
- xviii. The selected proposer should be able to customize the Incident Management workflow based on CLICK's requirements.
- xix. The selected proposer should offer comprehensive containment strategy by directly OEM and minimum intervention required by local onsite resources.
- xx. If there is any increase in the any (i.e cloud or HARDWARE) hardware due to further increase in Cloud or HARDWARE service, the cost of SLA/ operations will be increased on prorate basses

5.3. Requirements of the Supplier's Technical Team

5.3.1. The Supplier MUST provide a technical team to cover the Purchaser's anticipated Post-Operational Acceptance Technical Assistance Activities Requirements (e.g., modification of the Information System to comply with changing legislation and regulations).

Sr.	Key Personnel	Minimum Experience	Architect/		
No.			Engineer/PM		
1.	Certified PMP Project Manger	15 years in Large Scale IT Project	3		
		Management and Valid PMP			
		Certification			
2.	Certified Cloud Engineers	10 years for Cloud Engineer	3		
		5 Years for L3 and L2 and Valid			
		Certification			
3.	DEV OPS	10 Years and valid Certification	1		
4.	Certified Database Specialist	10 Years and valid Certification	1		
5.	Certified System Engineers	15 Years and valid Certification	2		
6.	Certified Network Engineers	15 Years and valid Certification	1		
7.	System Integration & Migration	15 Years and valid Certification	1		
	Specialist				
8.	Hardware Engineers	15 Years and valid Certification	1		
9.	NOC Support Staff	5 Years and valid Certification	1		
	Total Key Personnel:				

Team Required Skills/ Experience and Primary roles

1 PMP Certified Project Manager

- Experience: Minimum of 15 years of progressive experience in managing large-scale, complex IT projects.
- PMP Certification: Current and active Project Management Professional (PMP) certification from the Project Management Institute (PMI).
- Funded Project Experience: Direct, hands-on experience managing funded projects by the World Bank or a similar International Financial Institution (e.g., ADB, AfDB). Must understand the project cycle and reporting requirements.

2. Technical and Managerial Skills:

- Integrated Systems Mastery: Demonstrated expertise in managing projects that involve the simultaneous delivery of:
 - O Software: Custom development, COTS implementation, SaaS platforms.
 - O Hardware: Data center setup, network infrastructure, server farms, end-user devices.
 - O Integration: Middleware, APIs, data migration, and system interoperability.
- Advanced Project Management Methodologies:
 - Expert-level knowledge of Predictive (Waterfall) and Adaptive (Agile/Scrum) methodologies, with the ability to blend them in a Hybrid model.
 - O Mastery of Earned Value Management (EVM), Critical Path Method (CPM), and Risk Management.
- Procurement & Contract Management: Deep understanding of international competitive bidding (ICB) and other World Bank procurement methods. Strong contract negotiation and vendor management skills.

4. Leadership and Soft Skills:

- Diplomacy and Influence: Exceptional ability to navigate complex government structures and build consensus among diverse, high-level stakeholders.
- Crisis Leadership: Proven ability to lead under pressure, make decisive decisions in ambiguous situations, and resolve major project roadblocks.
- Strategic Communication: Superior written and verbal communication skills, with the ability to present complex information clearly to the World Bank, government ministers, and technical teams alike.
- Team Leadership: Experience building and mentoring large, multidisciplinary, and often culturally diverse teams.

2. Cloud Architect

1. Primary Role

- a. Lead the design of cloud architectures that are aligned with the business goals and technical requirements of the organization.
- Plan the deployment of cloud resources, including virtual machines, storage, and networking, ensuring efficient resource utilization.
- Develop and enforce security policies to meet regulatory compliance requirements and protect cloud resources and data.
- d. Optimize cloud costs through strategic resource allocation and effective cost management.
- Implement resource scaling and efficiently manage cloud resources to accommodate changing demands.
- f. Plan for high availability and disaster recovery to ensure business continuity in case of failures.
- g. Design cloud-native applications and microservices to leverage the benefits of cloud computing.
- h. Plan network architectures and configure security rules to safeguard cloud resources.
- i. Optimize application and database performance in the cloud environment.
- Set up monitoring and alerting systems, defining scaling policies for automated resource adjustments.
- k. Estimate future resource requirements and plan for capacity scaling to accommodate growth.
- Stay updated with the latest cloud technologies and identify opportunities for innovation and improvement.

2. Skills

- Proficiency in both private and public cloud platforms, including but not limited to AWS, Azure, Google Cloud, or others.
- b. The ability to create and effectively communicate complex architectural designs to stakeholders.
- In-depth knowledge of cloud security best practices and compliance requirements to maintain a secure cloud environment.
- d. Proficiency in resource scaling and management tools and techniques to ensure efficient resource allocation.
- e. Expertise in designing and implementing high availability (HA) and disaster recovery (DR) solutions for critical systems.
- An understanding of data and application integration and migration strategies to facilitate smooth cloud transitions.
- g. Knowledge of cloud-native application design and microservices architecture for efficient and scalable cloud applications.
- Networking skills, including Virtual Private Clouds (VPCs), subnets, and security groups for secure and well-architected networks.
- Skills to optimize application and database performance in the cloud environment for maximum efficiency.
- Proficiency in monitoring, alerting, and management tools to proactively maintain and manage cloud resources.
- k. Strong documentation skills to maintain records of cloud configurations and processes.
- The ability to evaluate cloud providers and third-party tools.

- m. The ability to evaluate cloud providers and third-party tools for integration into the cloud architecture.n. Skills in estimating and planning for resource capacity to support future growth and scalability.
- 3. Cloud Infrastructure (Level-3)
 - 1. Primary Role
 - a. Oversee the management and optimization of all cloud and data center resources.
 - Take charge of the holistic administration of the on-premises cloud infrastructure, ensuring its
 efficiency, reliability, and scalability.
 - Effectively allocate, monitor, and manage cloud resources to ensure cost-effectiveness and performance.
 - d. Ensure the seamless day-to-day operation of the on-premises cloud infrastructure, proactively addressing operational challenges and ensuring high availability.
 - 2. Skills
 - Demonstrate comprehensive expertise in both public and private cloud technologies, including their integration and management.
 - b. Exhibit proficiency in systems management, including the provisioning, configuration, and monitoring of virtual machines, storage, and network resources.
 - c. Possess knowledge of identity and access management (IAM) practices to control and secure user access to cloud resources.
 - Showcase a deep understanding of virtualization technologies, network configurations, and storage management in a hybrid cloud environment.
 - Demonstrate a high level of proficiency in both Linux and Windows operating systems, enabling seamless management and optimization of diverse workloads.
 - Implement and maintain robust cloud security measures by applying industry-best practices to protect sensitive data and resources.

4. Cloud Engineer (Level-2)

- 1. Primary Role
 - Ensure the uninterrupted day-to-day operation and performance of the cloud infrastructure, proactively addressing issues to maintain high availability and reliability
 - b. Leverage automation tools and practices to streamline application deployment, scaling, and management within the cloud infrastructure, enhancing efficiency and agility.
 - c. Collaborate closely with development teams to identify and implement optimal cloud solutions for their applications, aligning technology with business objectives.
 - d. Continuously monitor and fine-tune the performance of cloud systems to optimize resource utilization and cost-effectiveness.
- 2. Skills
 - Demonstrate proficiency in managing both Linux and Windows Servers, enabling seamless administration and maintenance of diverse workloads.
 - Exhibit excellent programming skills and the ability to write scripts and handle code, facilitating automation and custom solutions.
 - c. Possess knowledge of programming languages such as Java, Asp.net, PHP, Python, Ruby, enhancing versatility in application development and maintenance.
 - d. Showcase a strong understanding of virtualization technologies, including VMware, Hyper-V, KVM, and others, for efficient resource allocation and management.
 - e. Bring familiarity with networking and storage concepts in a cloud context, ensuring seamless integration and performance optimization.
 - f. Utilize expertise in DevOps tools like Jenkins, Ansible, Docker, Kubernetes, and others to enhance the automation and orchestration of cloud operations, promoting collaboration and efficiency.

5. DevOps Engineer

- 1. Primary Role
 - Spearhead the automation of application deployment, scaling, and management within the cloud infrastructure, enhancing efficiency and agility.
 - Collaborate closely with development teams to identify and implement optimal cloud solutions for their applications, aligning technology with business objectives.
 - Continuously monitor and fine-tune the performance of cloud systems to optimize resource utilization and cost-effectiveness.
 - d. Design and develop tools and processes for infrastructure management, workload automation across multiple cloud providers, version control management through Git, and the automation of testing and deployment.

2. Skills

- a. Possess proficiency in managing both Linux and Windows servers, enabling seamless administration and maintenance of diverse workloads.
- Exhibit excellent programming skills and the ability to write scripts and handle code, facilitating automation and custom solutions. Proficiency in any programming language like .NET, Java, Python, Ruby, etc.
- Understand software and database concepts, with the ability to configure and manage databases like MySQL, MariaDB, MongoDB, PostgreSQL, and more.
- Showcase strong networking skills for effective communication between various components of the cloud infrastructure.
- e. Possess basic knowledge of cloud infrastructure, including cloud services and components.
- f. Have a foundational understanding of hypervisors and data visualization technologies.
- g. Database management skills.
- Leverage strong troubleshooting and problem-solving abilities, applying DevOps and Agile
 principles to resolve operational challenges and enhance collaboration between development and
 operations teams.

6. Databases Administrator

1. Description:

a. The job role description emphasizes the importance of database design, management, security, and performance optimization. It also highlights the need for a broad skill set, including knowledge of various database systems and the ability to work with both on-premises and cloud deployments.

2. Primary Role

- Lead the design, implementation, maintenance, and security of databases, ensuring optimal performance and data integrity.
- Collaborate closely with software developers, system administrators, and IT staff to guarantee the smooth operation of databases, addressing any issues promptly.
- c. Ensure that database data is accessible, uncorrupted, and secure from external threats, implementing robust security measures.
- d. Perform backup, restoration, and troubleshooting of database sets and system access.
- e. Manage database replication, disaster recovery, clustering, updating, patching, and data migrations for data availability and business continuity.
- f. Administer user accounts and access security to protect sensitive data and resources.

3. Skills

- Possess a strong understanding of database theory and the technologies used to build and implement databases.
- Exhibit the ability to work with a variety of database software products, including MySQL, PostgreSQL, MongoDB, SQL Server, Oracle, and more.
- c. Demonstrate a strong knowledge of structured query language (SQL) and relevant software vendor certifications, ensuring proficiency in database query and manipulation.
- d. Automate database jobs and activities to streamline operations and reduce manual interventions.
- e. Work with Linux and Windows servers, maintaining and optimizing databases on diverse operating systems.
- Optimize database performance through techniques such as partitioning, indexing, and query optimization.
- g. Possess experience in implementing databases in both public and private cloud environments, ensuring adaptability to various deployment models.

7. System Engineer

- 1. Primary Role
 - a. 15 Years of experience in Designing, developing, and deploying modular cloud-based systems
 - Managing cloud computing environments through the deployment of new servers, storage systems, and other infrastructure components to support new applications.
 - c. Recommending new technologies that could improve security or efficiency.
 - Monitoring the performance of servers and other components to identify potential issues before they become problems.
 - e. Providing training on new technology and best practices to employees using the cloud system
 - f. Creating detailed documentation of all changes made to the cloud environment so that it can be recreated in the event of a disaster.
 - g. Operating and managing data center hardware, including servers, storage devices, and networking equipment.
 - h. Installing new software applications and updates, as well as removing obsolete software and hardware.
 - i. Managing system backups to ensure data integrity in case of failure.

8. Hardware Architect

- 1. Primary Role
- a. 10+ years of progressive, hands-on Hardware engineering and support experience in enterprise data center environments.
- b. Must be an expert hardware troubleshooter with a methodical approach to root cause analysis; must be a team player and customer-focused.
- c. Strong experience with Hardware configuration management, provisioning, and firmware update processes for multi-vendor environments.
- d. Deep understanding and hands-on experience with OEM hardware platforms and their management suites.
- e. Strong practical experience with data center networking concepts (TCP/IP, VLANs) and security appliance (Firewall) integration for management and data traffic.
- f. Strong experience with storage networking protocols and technologies, including iSCSI, Fibre Channel, NFS, and SMB/CIFS.
- Experience with industry-standard storage architectures (SAN, NAS, DAS) and hyper converged infrastructure (HCI).
- h. Experience providing technical guidance and leadership for hardware-related projects and operations.
- Ability to manage a variety of disparate tasks and priorities independently and troubleshoot complex multivendor hardware problems.
- j. Meticulous attention to detail; excellent time and project management skills.
- Excellent communication skills, analytical ability, strong judgment, and the ability to work effectively as a liaison between vendors, support teams, and management. Strong written, oral, and interpersonal communication skills.
- Relevant OEM certifications (e.g., Dell Technologies Proven Professional, HPE Master ASE, Cisco CCT/CCNA Data Center) are highly desirable.

9.. Network Engineer:

- a. At least 10 years of hands-on experience in network engineering with a proven background in deploying and commissioning data center infrastructure in colocation facilities.
- b. Expert-level knowledge and hands-on experience with:
 - Routing & Switching: BGP, OSPF, VLANs, VRF, and Ethernet switching.
 - Security: Next-Generation Firewall configuration and policy management (Palo Alto, Fortinet, or Cisco ASA/Firepower).
 - Data Center Technologies: Experience with Cisco Nexus series, Arista, or similar data center-class switches.
- c. Strong practical experience with server and storage integration, including:
 - · Understanding of server hardware (Dell, HPE, Cisco UCS) for initial setup and out-of-band management
 - Knowledge of storage networking protocols (iSCSI, NFS) and ability to configure switches and servers for storage connectivity.
- d. Proficiency in network automation and scripting (e.g., Python, Ansible) to streamline device configuration and deployment.
- Experience with network monitoring and management tools to validate performance and availability postcommissioning.
- f. In-depth ability to perform packet capture and analysis using tools like Wireshark for advanced troubleshooting.
- g. Excellent project management and organizational skills, with the ability to manage multiple tasks and vendors simultaneously in a fast-paced environment.
- Industry certifications are highly desirable, such as: Cisco: CCNP Enterprise or Data Center, virtualized environment is part of scope)
- Ability to work independently in a colocation environment with limited direct supervision, coordinating effectively
 with remote teams.
- j. Strong verbal and written communication skills, with the ability to create clear documentation and provide timely status updates to project stakeholders.

10 Hardware SLA/Support Engineer:

1. Description

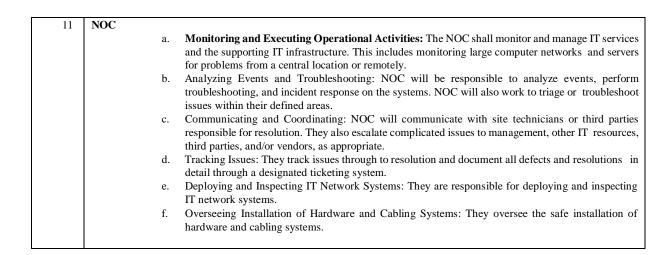
a. The role demands to provides technical assistance and consultation for faculty, researchers, students, and technical staff on the use of the computing platforms. Works closely with other staff and departmental entities to provide a comprehensive support infrastructure for academic, commercial, and government users, from a broad range of research disciplines.

Primary Role

- a. Provides systems support for advanced research computing environment, to include the installation, integration and management of computer systems, clusters, operating systems, peripherals, and system interfaces; monitors system usage; ensures that the operating at optimal performance and reliability levels; additional duties include consulting, training and the development and maintenance of systems documentation.
- b. Works in collaboration with senior systems staff to manage the hardware and systems software infrastructure to provide an effective, reliable, high performance, scalable computing environment.
- Maintains an understanding of state-of-the-art computing systems and peripherals; computer operating systems; and scalable, parallel architectures.
- d. Works with users and other computational professionals in evaluating user requirements, and in the configuration and deployment of computational resources.
- e. Support new and existing customers
- f. Travel will be required as part of the role (for events and customer meetings)
- g. Solves moderately complex problems and tasks independently.

3. Skills

- b. 5 years of progressive Hardware system administration and operations (preferably in an open stack/clones Linux administration, Batch Hardware cluster environment)
- i. Exposure to MPI (message passing interface) codes and libraries
- j. C/C++ not necessary of coding but able to compile / build open source applications / libraries.
- k. Shell scripting bash, perl or python or any combination
- l. Understanding of GPU and accelerator technologies
- m. Experience in managing servers remotely
- **n.** Good documentation & communications skills



Implementation Schedule

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U•	Table of Holidays and Other Non-Working Days	

IMPLEMENTATION SCHEDULE TABLE

Line Item No.	Subsystem / Item	Configuration Table No.	Site/ Site Code	Delivery (proposer to specify in the Preliminary Project Plan)	Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone
0	Project Plan		CLICK			Within 3 days from Effective Date	No
1	Supply & Deliver y of Hardware (Server, Storage, Network etc.)	Technical requirements of the Solution	Karachi	Within 6-8 weeks from Effective Date		Within 7-9 weeks from Effective Date	1% (Per Week)
2	Installation & Commission of Hardware at proposed colocation	Technical requirements of the Solution	DC-1 & DC-2		Within 8-10 weeks from Effective Date	Within 9-11 weeks from Effective Date	1% (Per Week)
3	End to End Cloud Deployment with one (01) years premium support	Technical requirements of the Solution	DC-1 & DC-2		Within 12-14 weeks from Effective Date	Within 14-16 weeks from Effective Date	1%(Per Week)
4	On Job Training of Proposed Solution	Technical requirements of the Solution	CLICK		14 weeks from Effective Date	16 weeks from Effective Date	1%(Per Week)

A. SITE TABLE(S)

[Specify: the detailed information regarding the site(s) at which the System is to be operated]

Site Code	Site	City / Town / Region	Primary Street Address	Drawing Reference No. (if any)
CLICK	CLICK	Karachi	FTC Building, Karachi	
DC-1	Colocation Datacenter	Karachi	Proposed by Bidder	
DC-2	Backup Datacenter	Karachi/ Sindh	Proposed by Bidder	

C. TABLE OF HOLIDAYS AND OTHER NON-WORKING DAYS

[Specify: the days for each month for each year that are non-working days, due to Holidays or other business reasons (other than weekends).]

Month	20xy	20xy+1	20xy+2			20zz
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

System Inventory Tables

Notes on preparing the System Inventory Tables

The System Inventory Tables detail:

- (a) for each Subsystem (Deliverable) indicated in the Implementation Schedule, the Information Technologies, Materials, and other Goods and Services that comprise the System to be supplied and/or performed by the Supplier;
- (b) the quantities of such Information Technologies, Materials, and other Goods and Services;
- (c) the sites and the location of each on a specific site (e.g., building, floor, room, department, etc.)
- (d) the cross references to the relevant section of the Technical Requirements where that item is described in greater detail

The Purchaser should modify these tables, as required, to suit the particulars of the System (and Subsystems) to be supplied and installed. The sample text provided for various sections of the tables is illustrative only and should be modified or deleted as appropriate.

There are two sample formats given for the System Inventory Tables: one for the Supply and Installation cost items and the second for Recurrent Cost Items needed (if any).

Section VII – Purchaser's Requirements

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Table of Contents: System Inventory Tables

System Inventory Table (Supply and Installation Cost Items) ... Error! Bookmark not defined.

<u>System Inventory Table (Recurrent Cost Items)</u> – *Warranty Period* Error! Bookmark not defined.

SYSTEM INVENTORY TABLE (SUPPLY AND INSTALLATION COST ITEMS) [INSERT: IDENTIFYING NUMBER]

Line item number: [specify: relevant line item number from the Implementation Schedule (e.g., 1.1)]

[as necessary for the supply and installation of the System, specify: the detailed components and quantities in the System Inventory Table below for the line item specified above, modifying the sample components and sample table entries as needed. Repeat the System Inventory Table as needed to cover each and every line item in the Implementation Schedule that requires elaboration.]

Component No.	Component	Relevant Technical Specifications No.	Additional Site Information (e.g., building, floor, department, etc.)	Quantity
1.	Infrastructure Node			
2.	Control Node			
3.	Compute Node			
4.	All Flash Enterprise Storage			
5.	Scale-Out Network NAS Storage			
6.	Cloud with Security			
7.	Data Consistency Software			
8.	Router			
9.	Firewall			
10.	Core Switches			

Component No.	Component	Relevant Technical Specifications No.	Additional Site Information (e.g., building, floor, department, etc.)	Quantity
11.	Distribution Switches			
12.	Software			
13.	Connectivity			
14.	Co-location Services			
15.	SUPPORT, MAINTENANCE, WARRANTY AND SERVICE LEVEL AGREEMENT:			
16.	HIGH-LEVEL DIAGRAM AND REPORT FOR ESTABLISHMENT OF CO-LOCATION / CLOUD SERVICES OF IT INFRASTRUCTURE AT PRIMARY AND BACKUP SITE:			

Note: -- indicates not applicable. "indicates repetition of table entry above.

SYSTEM INVENTORY TABLE (RECURRENT COST ITEMS) [INSERT: IDENTIFYING NUMBER] -

Line item number: [specify: relevant line item number from the Implementatio n Schedule (e.g., y.1)]Componen t No.	Component	Relevant Technical Specifications No.	Y1
1.	Warranty Defect Repair		all items, all sites, included in the Supply and Install Price
2.	Software/Firmware Licenses and Updates:		all items, all sites, included in the Supply and Install Price
3.	Technical Services		

Line item number: [specify: relevant line item number from the Implementatio n Schedule (e.g., y.1)]Componen t No.	Component	Relevant Technical Specifications No.	Y1

Note: -- indicates not applicable. " indicates repetition of table entry above.

Background and Informational Materials

Notes on Background and Informational Materials

This section of the request for proposals document provides a place to gather materials that the Purchaser believes will help Proposers prepare more precisely targeted technical proposals and more precise proposal prices.

These materials MUST NOT introduce requirements for the Information System. Rather they should assist Proposers to interpret the Technical Requirements and the General and Specific Conditions of Contract. For example, these Background and Informational Materials may describe existing information systems that the Information System to be supplied and installed under the Contract must integrate with. However, the specific requirement that the Supplier must integrate the Information System with other systems needs to be stated in the Technical Requirements. Similarly, these Background and Informational Materials may describe the legal and regulatory norms (including for example statutory report formats) that are relevant to the Information System. The Technical Requirements Section would need to spell out that the Supplier must ensure the Information System complies with the relevant legal and regulatory norms.

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Background and Informational Materials

Note: The following is only a sample outline. Entries should be modified, extended, and/or deleted, as appropriate for the particular System to be supplied and installed. DO NOT introduce requirements for the System in this section.

A. BACKGROUND

0.1 The Purchaser

- 0.1.1 [provide: an overview of the Agency's legal basis, organizational role, and core objectives]
- 0.1.2 [provide: an overview of the stakeholders to the Information System
- 0.1.3 [provide: an overview of the Purchaser's project management and decision-making arrangements applicable to the System and performance of the Contract]

0.2 The Purchaser's Business Objectives for the Information System

- 0.2.1 [provide: an overview of the current business objectives, procedures, and processes and how they will be affected by the System]
- 0.2.2 [provide: an overview of the changes in objectives, procedures, and processes to be made possible by the System]
- 0.2.3 [provide: a brief description of the expected benefits of the System]

B. INFORMATIONAL MATERIALS

0.3 The Legal, Regulatory, and Normative Context for the Information System

- 0.3.1 [provide: an overview of the laws, regulations and other formal norm which will shape the Information System.]
- 0.3.2 [provide: samples of existing standardized reports, data entry forms, data formats, data coding schemes, etc. which the Information System will need to implement.]

0.4 Existing Information Systems / Information Technologies Relevant to the Information System

- 0.4.1 [provide: an overview of the existing information systems and information technologies which will establish the technological context for the implementation of the Information System.]
- 0.4.2 [provide: an overview of the ongoing or planned information systems initiatives that will shape context for the implementation of the Information System.]

0.5 Available Training Facilities to Support the Implementation of the Information System

0.5.1 [provide: an overview of the Purchaser's existing training facilities that would be available to support the implementation of the Information System.]

0.6 Site Drawings and Site Survey Information Relevant to the Information System

0.6.1 [provide: information of the sites at which the Information System would be implemented.]

PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS

SECTION VIII - GENERAL CONDITIONS OF CONTRACT

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General Conditions of Contract

A. CONTRACT AND INTERPRETATION

- 1. Definitions
- 1.1 In this Contract, the following terms shall be interpreted as indicated below.
 - (a) contract elements
 - (i) "Contract" means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein. The Contract Agreement and the Contract Documents shall constitute the Contract, and the term "the Contract" shall in all such documents be construed accordingly.
 - (ii) "Contract Documents" means the documents specified in Article 1.1 (Contract Documents) of the Contract Agreement (including any amendments to these Documents).
 - (iii) "Contract Agreement" means the agreement entered into between the Purchaser and the Supplier using the form of Contract Agreement contained in the Sample Contractual Forms Section of the request for proposals documents and any modifications to this form agreed to by the Purchaser and the Supplier. The date of the Contract Agreement shall be recorded in the signed form.
 - (iv) "GCC" means the General Conditions of Contract.
 - (v) "SCC" means the Special Conditions of Contract.
 - (vi) "Technical Requirements" means the Technical Requirements in Section VII of the request for proposals documents.
 - (vii) "Implementation Schedule" means the Implementation Schedule in Section VII of the request for proposals documents.
 - (viii) "Contract Price" means the price or prices defined in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement.

- (ix) "Procurement Regulations" refers to the edition specified in the SCC of the World Bank "Procurement Regulations for IPF Borrowers".
- (x) "request for proposals **document**" refers to the document issued by the Purchaser on the subject procurement process.
- (xi) "Sexual Exploitation and Abuse" "(SEA)" means the following:

Sexual Exploitation is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another.

Sexual Abuse is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions.

(xii) "Sexual Harassment" "(SH)" is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by the Supplier's Personnel with other Supplier's or Purchaser's personnel.

(b) entities

- (i) "Purchaser" means the entity purchasing the Information System, as specified in the SCC.
- (ii) "Purchaser's Personnel" means all staff, labor and other employees of the Project Manager and of the Purchaser engaged in fulfilling the Purchaser's obligations under the Contract; and any other personnel identified as Purchaser's Personnel, by a notice from the Purchaser to the Supplier;
- (iii) "Project Manager" means the person named as such in the SCC or otherwise appointed by the Purchaser in the manner provided in GCC Clause 18.1 (Project Manager) to perform the duties delegated by the Purchaser.
- (iv) "Supplier" means the firm or Joint Venture whose proposal to **perform** the **Contract** has

- been accepted by the Purchaser and is named as such in the Contract Agreement.
- (v) "Supplier's Representative" means any person nominated by the Supplier and named as such in the Contract Agreement or otherwise approved by the Purchaser in the manner provided in GCC Clause 18.2 (Supplier's Representative) to perform the duties delegated by the Supplier.
- (vi) "Supplier's Personnel" means all personnel whom the Supplier utilizes in the execution of the Contract, including the staff, labor and other employees of the Supplier and each Subcontractor; and any other personnel assisting the Supplier in the execution of the Contract;
- (vii) "Subcontractor" means any firm to whom any of the obligations of the Supplier, including preparation of any design or supply of any Information Technologies or other Goods or Services, is subcontracted directly or indirectly by the Supplier.
- (viii) "Adjudicator" means the person named in Appendix 2 of the Contract Agreement, appointed by agreement between the Purchaser and the Supplier to make a decision on or to settle any dispute between the Purchaser and the Supplier referred to him or her by the parties, pursuant to GCC Clause 43.1 (Adjudication).
 - (ix) "The World Bank" (also called "The Bank") means the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).

(c) scope

- (i) "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.
- (ii) "Subsystem" means any subset of the System identified as such in the Contract that may be supplied, installed, tested, and commissioned

- individually before Commissioning of the entire System.
- (iii) "Information Technologies" means all information processing and communications-related hardware, Software, supplies, and consumable items that the Supplier is required to supply and install under the Contract.
- (iv) "Goods" means all equipment, machinery, furnishings, Materials, and other tangible items that the Supplier is required to supply or supply and install under the Contract, including, without limitation, the Information Technologies and Materials, but excluding the Supplier's Equipment.
- "Services" means all technical, logistical, (v) management, and any other Services to be provided by the Supplier under the Contract to supply, install, customize, integrate, and make operational the System. Such Services may include, but are not restricted to, activity management and quality assurance, design, development, customization, documentation, transportation, insurance, inspection, expediting, installation, preparation, integration, training, data migration, Pre-commissioning, Commissioning, maintenance, and technical support.
- (vi) "The Project Plan" means the document to be developed by the Supplier and approved by the Purchaser, pursuant to GCC Clause 19, based on the requirements of the Contract and the Preliminary Project Plan included in the Supplier's proposal. The "Agreed Project Plan" is the version of the Project Plan approved by the Purchaser, in accordance with GCC Clause 19.2. Should the Project Plan conflict with the Contract in any way, the relevant provisions of the Contract, including any amendments, shall prevail.
- (vii) "Software" means that part of the System which are instructions that cause information processing Subsystems to perform in a specific manner or execute specific operations.

- (viii) "System Software" means Software that provides the operating and management instructions for the underlying hardware and other components, and is identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be Systems Software. Such System Software includes, but is not restricted to, micro-code embedded in hardware (i.e., "firmware"). operating systems, communications, system and network management, and utility software.
- (ix) "General-Purpose Software" means Software that supports general-purpose office and software development activities and is identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be General-Purpose Software. Such General-Purpose Software may include, but is not restricted to, word processing, spreadsheet, generic database management, and application development software.
- (x) "Application Software" means Software formulated to perform specific business or technical functions and interface with the business or technical users of the System and is identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be Application Software.
- (xi) "Standard Software" means Software identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be Standard Software.
- (xii) "Custom Software" means Software identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be Custom Software.
- (xiii) "Source Code" means the database structures, dictionaries, definitions, program source files, and any other symbolic representations necessary for the compilation, execution, and subsequent maintenance of the Software

- (typically, but not exclusively, required for Custom Software).
- (xiv) "Materials" means all documentation in printed or printable form and all instructional and informational aides in any form (including audio, video, and text) and on any medium, provided to the Purchaser under the Contract.
- (xv) "Standard Materials" means all Materials not specified as Custom Materials.
- (xvi) "Custom Materials" means Materials developed by the Supplier at the Purchaser's expense under the Contract and identified as such in Appendix 5 of the Contract Agreement and such other Materials as the parties may agree in writing to be Custom Materials. Custom Materials includes Materials created from Standard Materials.
- (xvii) "Intellectual Property Rights" means any and all copyright, moral rights, trademark, patent, and other intellectual and proprietary rights, title and interests worldwide, whether vested, contingent, or future, including without limitation all economic rights and all exclusive rights to reproduce, fix, adapt, modify, translate, create derivative works from, extract or re-utilize data from, manufacture, introduce into circulation, publish, distribute, sell, license, sublicense, transfer, rent, lease, transmit or provide access electronically, broadcast, display, enter into computer memory, or otherwise use any portion or copy, in whole or in part, in any form, directly or indirectly, or to authorize or assign others to do so.
- (xviii) "Supplier's Equipment" means all equipment, tools, apparatus, or things of every kind required in or for installation, completion and maintenance of the System that are to be provided by the Supplier, but excluding the Information Technologies, or other items forming part of the System.

(d) activities

(i) "Delivery" means the transfer of the Goods from the Supplier to the Purchaser in accordance with

- the current edition Incoterms specified in the Contract.
- (ii) "Installation" means that the System or a Subsystem as specified in the Contract is ready for Commissioning as provided in GCC Clause 26 (Installation).
- (iii) "Pre-commissioning" means the testing, checking, and any other required activity that may be specified in the Technical Requirements that are to be carried out by the Supplier in preparation for Commissioning of the System as provided in GCC Clause 26 (Installation).
- (iv) "Commissioning" means operation of the System or any Subsystem by the Supplier following Installation, which operation is to be carried out by the Supplier as provided in GCC Clause 27.1 (Commissioning), for the purpose of carrying out Operational Acceptance Test(s).
- (v) "Operational Acceptance Tests" means the tests specified in the Technical Requirements and Agreed Project Plan to be carried out to ascertain whether the System, or a specified Subsystem, is able to attain the functional and performance requirements specified in the Technical Requirements and Agreed Project Plan, in accordance with the provisions of GCC Clause 27.2 (Operational Acceptance Test).
- (vi) "Operational Acceptance" means the acceptance by the Purchaser of the System (or any Subsystem(s) where the Contract provides for acceptance of the System in parts), in accordance with GCC Clause 27.3 (Operational Acceptance).
- (e) place and time
 - (i) "Purchaser's Country" is the **country named in** the SCC.
 - (ii) "Supplier's Country" is the country in which the Supplier is legally organized, as named in the Contract Agreement.
 - (iii) Unless otherwise specified in the SCC "Project Site(s)" means the place(s) in the Site Table in the

- Technical Requirements Section for the supply and installation of the System.
- (iv) "Eligible Country" means the countries and territories eligible for participation in procurements financed by the World Bank as defined in the Procurement Regulations.
- (v) "Day" means calendar day of the Gregorian Calendar.
- (vi) "Week" means seven (7) consecutive Days, beginning the day of the week as is customary in the Purchaser's Country.
- (vii) "Month" means calendar month of the Gregorian Calendar.
- (viii) "Year" means twelve (12) consecutive Months.
- (ix) "Effective Date" means the date of fulfillment of all conditions specified in Article 3 (Effective Date for Determining Time for Achieving Operational Acceptance) of the Contract Agreement, for the purpose of determining the Delivery, Installation, and Operational Acceptance dates for the System or Subsystem(s).
- (x) "Contract Period" is the time period during which this Contract governs the relations and obligations of the Purchaser and Supplier in relation to the System, as **unless otherwise specified in the SCC**, the Contract shall continue in force until the Information System and all the Services have been provided, unless the Contract is terminated earlier in accordance with the terms set out in the Contract.
- (xi) "Defect Liability Period" (also referred to as the "Warranty Period") means the period of validity of the warranties given by the Supplier commencing at date of the Operational Acceptance Certificate of the System or Subsystem(s), during which the Supplier is responsible for defects with respect to the System (or the relevant Subsystem[s]) as provided in GCC Clause 29 (Defect Liability).
- (xii) "The Coverage Period" means the Days of the Week and the hours of those Days during which

- maintenance, operational, and/or technical support services (if any) must be available.
- (xiii) The Post-Warranty Services Period" means the number of years **defined in the SCC** (if any), following the expiration of the Warranty Period during which the Supplier may be obligated to provide Software licenses, maintenance, and/or technical support services for the System, either under this Contract or under separate contract(s).

2. Contract Documents

2.1 Subject to Article 1.2 (Order of Precedence) of the Contract Agreement, all documents forming part of the Contract (and all parts of these documents) are intended to be correlative, complementary, and mutually explanatory. The Contract shall be read as a whole.

3. Interpretation

- 3.1 Governing Language
 - 3.1.1 Unless otherwise specified in the SCC, all Contract Documents and related correspondence exchanged between Purchaser and Supplier shall be written in the language of the request for proposals document (English), and the Contract shall be construed and interpreted in accordance with that language.
 - 3.1.2 If any of the Contract Documents or related correspondence are prepared in a language other than the governing language under GCC Clause 3.1.1 above, the translation of such documents into the governing language shall prevail in matters of interpretation. The originating party, with respect to such documents shall bear the costs and risks of such translation.

3.2 Singular and Plural

The singular shall include the plural and the plural the singular, except where the context otherwise requires.

3.3 Headings

The headings and marginal notes in the GCC are included for ease of reference and shall neither constitute a part of the Contract nor affect its interpretation.

3.4 Persons

Words importing persons or parties shall include firms, corporations, and government entities.

3.5 Incoterms

Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by the Incoterms

Incoterms means international rules for interpreting trade terms published by the International Chamber of Commerce (latest edition), 38 Cours Albert 1^{er}, 75008 Paris, France.

3.6 Entire Agreement

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

3.7 Amendment

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

3.8 Independent Supplier

The Supplier shall be an independent contractor performing the Contract. The Contract does not create any agency, partnership, joint venture, or other joint relationship between the parties to the Contract.

Subject to the provisions of the Contract, the Supplier shall be solely responsible for the manner in which the Contract is performed. All employees, representatives, or Subcontractors engaged by the Supplier in connection with the performance of the Contract shall be under the complete control of the Supplier and shall not be deemed to be employees of the Purchaser, and nothing contained in the Contract or in any subcontract awarded by the Supplier shall be construed to create any contractual relationship between any such employees, representatives, or Subcontractors and the Purchaser.

3.9 Joint Venture

If the Supplier is a Joint Venture of two or more firms, all such firms shall be jointly and severally bound to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one of such firms to act as a leader with authority to bind the Joint Venture. The composition or constitution of the Joint Venture shall not be altered without the prior consent of the Purchaser.

3.10 Nonwaiver

- 3.10.1 Subject to GCC Clause 3.10.2 below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, nor shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- 3.10.2 Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, must be dated and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

3.11 Severability

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

3.12 Country of Origin

"Origin" means the place where the Information Technologies, Materials, and other Goods for the System were produced or from which the Services are supplied. Goods are produced when, through manufacturing, processing, Software development, or substantial and major assembly or integration of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components. The Origin of Goods and Services is distinct from the nationality of the Supplier and may be different.

4. Notices

- 4.1 Unless otherwise stated in the Contract, all notices to be given under the Contract shall be in writing and shall be sent, pursuant to GCC Clause 4.3 below, by personal delivery, airmail post, special courier, facsimile, electronic mail, or other electronic means, with the following provisions.
 - 4.1.1 Any notice sent by facsimile, electronic mail, or EDI shall be confirmed within two (2) days after dispatch

- by notice sent by airmail post or special courier, except as otherwise specified in the Contract.
- 4.1.2 Any notice sent by airmail post or special courier shall be deemed (in the absence of evidence of earlier receipt) to have been delivered ten (10) days after dispatch. In proving the fact of dispatch, it shall be sufficient to show that the envelope containing such notice was properly addressed, stamped, and conveyed to the postal authorities or courier service for transmission by airmail or special courier.
- 4.1.3 Any notice delivered personally or sent by facsimile, electronic mail, or EDI shall be deemed to have been delivered on the date of its dispatch.
- 4.1.4 Either party may change its postal, facsimile, electronic mail, or EDI addresses for receipt of such notices by ten (10) days' notice to the other party in writing.
- 4.2 Notices shall be deemed to include any approvals, consents, instructions, orders, certificates, information and other communication to be given under the Contract.
- 4.3 Pursuant to GCC Clause 18, notices from/to the Purchaser are normally given by, or addressed to, the Project Manager, while notices from/to the Supplier are normally given by, or addressed to, the Supplier's Representative, or in its absence its deputy if any. If there is no appointed Project Manager or Supplier's Representative (or deputy), or if their related authority is limited by the SCC for GCC Clauses 18.1 or 18.2.2, or for any other reason, the Purchaser or Supplier may give and receive notices at their fallback addresses. The address of the Project Manager and the fallback address of the Purchaser are as **specified in the SCC** or as subsequently established/amended. The address of the Supplier's Representative and the fallback address of the Supplier are as specified in Appendix 1 of the Contract Agreement or as subsequently established/amended.

5. Governing Law

- 5.1 The Contract shall be governed by and interpreted in accordance with the laws of the country **specified in the SCC**.
- 5.2 Throughout the execution of the Contract, the Supplier shall comply with the import of goods and services prohibitions in the Purchaser's Country when
 - (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country; or
 - (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.

6. Fraud and Corruption

- 6.1 The Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in the Appendix 1 to the GCC.
- 6.2 The Purchaser requires the Suppliers to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the procurement process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

B. SUBJECT MATTER OF CONTRACT

7. Scope of the 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 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 proposal, 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. Time for Commencement and Operational Acceptance
- 8.1 The Supplier shall commence work on the System within the period **specified in the SCC**, and without prejudice to GCC Clause 28.2, the Supplier shall thereafter proceed with the System in accordance with the time schedule specified in the Implementation Schedule and any refinements made in the Agreed Project Plan.
- 8.2 The Supplier shall achieve Operational Acceptance of the System (or Subsystem(s) where a separate time for Operational Acceptance of such Subsystem(s) is specified in the Contract) in accordance with the time schedule specified in the Implementation Schedule and any refinements made in the Agreed Project Plan, or within such extended time to which the Supplier shall be entitled under GCC Clause 40 (Extension of Time for Achieving Operational Acceptance).

9. Supplier's Responsibilities

9.1 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. The Supplier shall ensure that its Subcontractors carryout the work on the Information System in accordance with the Contract, including complying with relevant environmental and social requirements and the obligations set out in GCC Clause 9.9.

The Supplier shall at all times take all reasonable precautions to maintain the health and safety of the Supplier's Personnel employed for the execution of the Contract at the Project Site/s in the Purchaser's country where the Contract is executed.

If **required in the SCC**, the Supplier shall submit to the Purchaser for its approval a health and safety manual which has been specifically prepared for the Contract.

The health and safety manual shall be in addition to any other similar document required under applicable health and safety regulations and laws.

The health and safety manual shall set out any applicable health and safety requirement under the Contract,

- (a) which may include:
 - (i) the procedures to establish and maintain a safe working environment;
 - (ii) the procedures for prevention, preparedness and response activities to be implemented in the case of an emergency event (i.e. an unanticipated incident, arising from natural or man-made hazards);
 - (iii) the measures to be taken to avoid or minimize the potential for community exposure to water-borne, water-based, water-related, and vector-borne diseases,
 - (iv) the measures to be implemented to avoid or minimize the spread of communicable diseases;
 and

- (b) any other requirements stated in the Purchaser's Requirements.
- 9.2 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 Purchaser 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 twenty-eight (28) days prior to proposal 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.
- 9.3 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 Project Plan (pursuant to GCC Clause 19.2) within the time schedule specified in the Implementation Schedule. Failure to provide such resources, information, and decision-making may constitute grounds for termination pursuant to GCC Clause 41.2.
- 9.4 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 Purchaser's Country that are necessary for the performance of the Contract, including, without limitation, visas for the Supplier'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 Purchaser under GCC Clause 10.4 and that are necessary for the performance of the Contract.
- 9.5 The Supplier shall comply with all laws in force in the Purchaser'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 Purchaser 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 10.1. The Supplier shall not indemnify the Purchaser to the extent that such liability, damage, claims, fines, penalties, and

expenses were caused or contributed to by a fault of the Purchaser.

- 9.6 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, as defined in GCC Clause 3.12, in a country that shall be an Eligible Country, as defined in GCC Clause 1.1 (e) (iv).
- 9.7 Pursuant to paragraph 2.2 e. of the Appendix 1 to the General Conditions of Contract, the Supplier shall permit and shall cause its agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit, the Bank and/or persons appointed by the Bank to inspect the site and/or the accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have such accounts, records and other documents audited by auditors appointed by the Supplier's and its Subcontractors' Bank. The subconsultants' attention is drawn to GCC Clause 6.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).
- 9.8 The Supplier shall conform to the sustainable procurement contractual provisions, if and as **specified in the SCC.**

9.9 **Code of Conduct**

The Supplier shall have a Code of Conduct for the Supplier's Personnel employed for the execution of the Contract at the Project Site/s.

The Supplier shall take all necessary measures to ensure that each such personnel is made aware of the Code of Conduct including specific behaviors that are prohibited, and understands the consequences of engaging in such prohibited behaviors.

These measures include providing instructions and documentation that can be understood by such personnel, and seeking to obtain that person's signature acknowledging receipt of such instructions and/or documentation, as appropriate.

The Supplier shall also ensure that the Code of Conduct is visibly displayed in the Project Site/s as well as, as applicable, in areas outside the Project Site/s accessible to the local

community and any project affected people. The posted Code of Conduct shall be provided in languages comprehensible to the Supplier's Personnel, Purchaser's Personnel and the local community.

The Supplier's Management Strategy and Implementation Plans, if applicable, shall include appropriate processes for the Supplier to verify compliance with these obligations.

- 9.10 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.
- 9.11 The Supplier, including its Subcontractors, shall comply with all applicable safety obligations. The Supplier shall at all times take all reasonable precautions to maintain the health and safety of the Supplier's Personnel employed for the execution of Contract at the Project Site/s.

9.12 Training of Supplier's Personnel

The Supplier shall provide appropriate training to relevant Supplier's Personnel on any applicable environmental and social aspect of the Contract, including appropriate sensitization on prohibition of SEA, health and safety.

As stated in the Purchaser's Requirements or as instructed by the Project Manager, the Supplier shall also allow appropriate opportunities for the relevant personnel to be trained on any applicable environmental and social aspects of the Contract by the Purchaser's Personnel and/or other personnel assigned by the Purchaser.

The Supplier shall provide training on SEA and SH, including its prevention, to any of its personnel who has a role to supervise other Supplier's Personnel.

9.13 Stakeholder engagements

The Supplier shall provide relevant contract- related information, as the Purchaser and/or Project Manager may reasonably request to conduct contract stakeholder engagement. "Stakeholder" refers to individuals or groups who:

- (a) are affected or likely to be affected by the Contract; and
- (b) may have an interest in the Contract.

The Supplier may also directly participate in contract stakeholder engagements, as the Purchaser and/or Project Manager may reasonably request.

9.14 Forced Labor

The Supplier, including its Subcontractors, shall not employ or engage forced labour. Forced labour consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labour, such as indentured labour, bonded labour or similar labour-contracting arrangements.

No persons shall be employed or engaged who have been subject to trafficking. Trafficking in persons is defined as the recruitment, transportation, transfer, harbouring or receipt of persons by means of the threat or use of force or other forms of coercion, abduction, fraud, deception, abuse of power, or of a position of vulnerability, or of the giving or receiving of payments or benefits to achieve the consent of a person having control over another person, for the purposes of exploitation.

9.15 Child Labor

The Supplier, including its Subcontractors, shall not employ or engage a child under the age of 14 unless the national law specifies a higher age (the minimum age).

The Supplier, including its Subcontractors, shall not employ or engage a child between the minimum age and the age of 18 in a manner that is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.

The Supplier, including its Subcontractors, shall only employ or engage children between the minimum age and the age of 18 after an appropriate risk assessment has been conducted by the Supplier with the Project Manager's consent. The Supplier shall be subject to regular monitoring by the Project Manager that includes monitoring of health, working conditions and hours of work.

Work considered hazardous for children is work that, by its nature or the circumstances in which it is carried out, is likely to jeopardize the health, safety, or morals of children. Such work activities prohibited for children include work:

- (a) with exposure to physical, psychological or sexual abuse:
- (b) underground, underwater, working at heights or in confined spaces;
- (c) with dangerous machinery, equipment or tools, or involving handling or transport of heavy loads;
- (d) in unhealthy environments exposing children to hazardous substances, agents, or processes, or to temperatures, noise or vibration damaging to health; or
- (e) under difficult conditions such as work for long hours, during the night or in confinement on the premises of the employer.

9.16 Non-Discrimination and Equal Opportunity

The Supplier shall not make decisions relating to the employment or treatment of personnel for the execution of the Contract on the basis of personal characteristics unrelated to inherent job requirements. The Supplier shall base the employment of personnel for the execution of the Contract on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices.

Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Supplier shall provide protection and assistance as necessary to ensure non-discrimination and equal opportunity, including for specific groups such as women, people with disabilities, migrant workers and children (of working age in accordance with GCC Clause 9.15).

9.17 Personnel Grievance Mechanism

The Supplier shall have a grievance mechanism for personnel employed in the execution of the Contract to raise workplace concerns. The grievance mechanism shall be proportionate to the nature, scale, risks and impacts of the Contract. The grievance mechanism may utilize existing grievance mechanisms, provided that they are properly

designed and implemented, address concerns promptly, and are readily accessible to such personnel.

9.18 Security of the Project Site

If stated in the SCC, the Supplier shall be responsible for the security at the Project Site/s including providing and maintaining at its own expense all lighting, fencing, and watching when and where necessary for the proper execution and the protection of the locations, or for the safety of the owners and occupiers of adjacent property and for the safety of the public.

In making security arrangements, the Supplier shall be guided by applicable laws and any other requirements that may be stated in the Purchaser's Requirements.

The Supplier shall (i) conduct appropriate background checks on any personnel retained to provide security; (ii) train the security personnel adequately (or determine that they are properly trained) in the use of force (and where applicable, firearms), and appropriate conduct towards the Supplier's Personnel, Purchaser's Personnel and affected communities; and (iii) require the security personnel to act within the applicable Laws and any requirements set out in the Purchaser's Requirements.

The Supplier shall not permit any use of force by security personnel in providing security except when used for preventive and defensive purposes in proportion to the nature and extent of the threat.

9.19 Recruitment of Persons

The Supplier shall not recruit, or attempt to recruit, either on limited time or `permanent basis or through any other contractual agreement, staff and labor from amongst the Purchaser's Personnel.

9.20 **Unless otherwise specified in the SCC** the Supplier shall have no other Supplier responsibilities.

10. Purchaser's Responsibilities

- 10.1 The Purchaser shall ensure the accuracy of all information and/or data to be supplied by the Purchaser to the Supplier, except when otherwise expressly stated in the Contract.
- 10.2 The Purchaser shall be responsible for timely provision of all resources, information, and decision making under its control that are necessary to reach an Agreed Project Plan (pursuant to GCC Clause 19.2) within the time schedule specified in the Implementation Schedule. Failure to

- provide such resources, information, and decision making may constitute grounds for Termination pursuant to GCC Clause 41.3.1 (b).
- 10.3 The Purchaser 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.
- 10.4 If requested by the Supplier, the Purchaser 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 Supplier's Personnel, as the case may be, to obtain.
- 10.5 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 Project Plan, or other parts of the Contract, the Purchaser shall use its best endeavors to assist the Supplier in obtaining such services in a timely and expeditious manner.
- 10.6 The Purchaser 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 Project Plan, except where provision of such items is explicitly identified in the Contract as being the responsibility of the Supplier. Delay by the Purchaser may result in an appropriate extension of the Time for Operational Acceptance, at the Supplier's discretion.
- 10.7 Unless otherwise specified in the Contract or agreed upon by the Purchaser and the Supplier, the Purchaser 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 Implementation Schedule and the Agreed Project Plan.
- 10.8 The Purchaser 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 Project Plan, or other parts of the Contract.
- 10.9 The Purchaser assumes primary responsibility for the Operational Acceptance Test(s) for the System, in accordance with GCC Clause 27.2, 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.
- 10.10 The Purchaser 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.
- 10.11 All costs and expenses involved in the performance of the obligations under this GCC Clause 10 shall be the responsibility of the Purchaser, save those to be incurred by the Supplier with respect to the performance of the Operational Acceptance Test(s), in accordance with GCC Clause 27.2.
- 10.12 **Unless otherwise specified in the SCC** the Purchaser shall have no other Purchaser responsibilities.

C. PAYMENT

11. Contract Price

- 11.1 The Contract Price shall be as specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement.
- 11.2 Unless an adjustment clause is **provided for in the SCC**, the Contract Price shall be a firm lump sum not subject to any alteration, except in the event of a Change in the System pursuant to **GCC Clause 39** or to other clauses in the Contract;
- 11.3 The Supplier shall be deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall, except as otherwise provided for in the Contract, cover all its obligations under the Contract.

12. Terms of Payment

12.1 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the System or Subsystem(s), Delivered, Pre-commissioned, Installed, and Operationally Accepted, and by documents submitted pursuant to GCC Clause 22.5 and upon fulfillment of other obligations stipulated in the Contract.

The Contract Price shall be paid as **specified in the SCC.**

- 12.2 No payment made by the Purchaser herein shall be deemed to constitute acceptance by the Purchaser of the System or any Subsystem(s).
- 12.3 Payments shall be made promptly by the Purchaser, but in no case later than forty five (45) days after submission of a valid invoice by the Supplier. In the event that the Purchaser fails to make any payment by its respective due date or within the period set forth in the Contract, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate(s) **specified in the SCC** for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.
- 12.4 Payments shall be made in the currency(ies) specified in the Contract Agreement, pursuant to GCC Clause 11. For Goods and Services supplied locally, payments shall be made as specified in the SCC.
- 12.5 **Unless otherwise specified in the SCC,** payment of the foreign currency portion of the Contract Price for Goods supplied from outside the Purchaser's Country shall be made to the Supplier through an irrevocable letter of credit opened by an authorized bank in the Supplier's Country and will be payable on presentation of the appropriate documents. It is agreed that the letter of credit will be subject to Article 10 of the latest revision of *Uniform Customs and Practice for Documentary Credits*, published by the International Chamber of Commerce, Paris.
- 12.6 **As specified in the SCC**, if the Supplier fails to perform its cyber security obligations under the Contract, an assessed amount, as determined by the Project Manager, may be withheld until the obligation has been performed.

13. Securities

13.1 Issuance of Securities

The Supplier shall provide the securities specified below in favor of the Purchaser at the times and in the amount, manner, and form specified below.

13.2 Advance Payment Security

- 13.2.1 The Supplier shall provide within twenty-eight (28) days of the notification of Contract award an Advance Payment Security in the amount and currency of the Advance Payment specified in SCC for GCC Clause 12.1 above and valid until the System is Operationally Accepted.
- 13.2.2 The security shall be in the form provided in the request for proposal document or in another form acceptable to the Purchaser. The amount of the security shall be reduced in proportion to the value of the System executed by and paid to the Supplier from time to time and shall automatically become null and void when the full amount of the advance payment has been recovered by the Purchaser. **Unless otherwise specified in the SCC**, the reduction in value and expiration of the Advance Payment Security are calculated as follows:

P*a/(100-a), where "P" is the sum of all payments effected so far to the Supplier (excluding the Advance Payment), and "a" is the Advance Payment expressed as a percentage of the Contract Price pursuant to the SCC for GCC Clause 12.1.

The security shall be returned to the Supplier immediately after its expiration.

13.3 Performance Security

- 13.3.1 The Supplier shall, within twenty-eight (28) days of the notification of Contract award, provide a security for the due performance of the Contract in the amount and currency **specified in the SCC.**
- 13.3.2 The security shall be a bank guarantee in the form provided in the Sample Contractual Forms Section of the request for proposal document, or it shall be in another form acceptable to the Purchaser.
- 13.3.3 The security shall automatically become null and void once all the obligations of the Supplier under the Contract have been fulfilled, including, but not limited to, any obligations during the Warranty Period and any

- extensions to the period. The security shall be returned to the Supplier no later than twenty-eight (28) days after its expiration.
- 13.3.4 Upon Operational Acceptance of the entire System, the security shall be reduced to the amount **specified in the SCC**, on the date of the Operational Acceptance, so that the reduced security would only cover the remaining warranty obligations of the Supplier.

14. Taxes and Duties

- 14.1 For Goods or Services supplied from outside the Purchaser's country, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the Purchaser's country. Any duties, such as importation or customs duties, and taxes and other levies, payable in the Purchaser's country for the supply of Goods and Services from outside the Purchaser's country are the responsibility of the Purchaser unless these duties or taxes have been made part of the Contract Price in Article 2 of the Contract Agreement and the Price Schedule it refers to, in which case the duties and taxes will be the Supplier's responsibility.
- 14.2 For Goods or Services supplied locally, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods or Services to the Purchaser. The only exception are taxes or duties, such as value-added or sales tax or stamp duty as apply to, or are clearly identifiable, on the invoices and provided they apply in the Purchaser's country, and only if these taxes, levies and/or duties are also excluded from the Contract Price in Article 2 of the Contract Agreement and the Price Schedule it refers to.
- 14.3 If any tax exemptions, reductions, allowances, or privileges may be available to the Supplier in the Purchaser's Country, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.
- 14.4 For the purpose of the Contract, it is agreed that the Contract Price specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement is based on the taxes, duties, levies, and charges prevailing at the date twenty-eight (28) days prior to the date of proposal submission in the Purchaser's Country (also called "Tax" in this GCC Clause 14.4). If any Tax rates are increased or decreased, a new Tax is introduced, an existing Tax is

abolished, or any change in interpretation or application of any Tax occurs in the course of the performance of the Contract, which was or will be assessed on the Supplier, its Subcontractors, or their employees in connection with performance of the Contract, an equitable adjustment to the Contract Price shall be made to fully take into account any such change by addition to or reduction from the Contract Price, as the case may be.

D. INTELLECTUAL PROPERTY

15. Copyright

- 15.1 The Intellectual Property Rights in all Standard Software and Standard Materials shall remain vested in the owner of such rights.
- 15.2 The Purchaser agrees to restrict use, copying, or duplication of the Standard Software and Standard Materials in accordance with GCC Clause 16, except that additional copies of Standard Materials may be made by the Purchaser 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.
- 15.3 The Purchaser'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 **unless otherwise specified in the SCC** to a legally constituted successor organization (e.g., a reorganization of a public entity formally authorized by the government or through a merger or acquisition of a private entity).
- 15.4 Unless otherwise specified in the SCC, the Intellectual Property Rights in all Custom Software and Custom Materials specified in Appendices 4 and 5 of 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 Purchaser. The Supplier shall do and execute or arrange for the doing and executing of each necessary act, document, and thing (as legally sufficient) that the Purchaser may consider necessary or desirable to perfect the right, title, and interest of the Purchaser 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 Purchaser and

where permitted by applicable law, ensure that the holder of such a moral right waives it.

15.5 **Unless otherwise specified in the SCC**, escrow arrangements shall NOT be required.

16. Software License Agreements

16.1 Except to the extent that the Intellectual Property Rights in the Software vest in the Purchaser, the Supplier hereby grants to the Purchaser license to access and use the Software, including all inventions, designs, and marks embodied in the Software.

Such license to access and use the Software shall:

- (a) be:
 - (i) nonexclusive;
 - (ii) fully paid up and irrevocable (except that it shall terminate if the Contract terminates under GCC Clauses 41.1 or 41.3);
 - (iii) unless otherwise specified in the SCC valid throughout the territory of the Purchaser's Country;
 - (iv) unless otherwise specified in the SCC subject to NO additional restrictions.
- (b) permit the Software to be:
 - (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 proposal), 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;
 - (ii) 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 proposal specifies a class of computer to which the license is restricted, the replacement computer(s) is(are) within that class;
 - (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;
- (iv) reproduced for safekeeping or backup purposes;
- (v) customized, adapted, or combined with other computer software for use by the Purchaser, 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;
- (vi) unless otherwise specified in the SCC, disclosed to, and reproduced for use by, support service suppliers and their subcontractors, 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
- (vii) **unless otherwise specified in the SCC** disclosed to, and reproduced for use by, NO other parties.
- 16.2 The Supplier has the right to audit the Standard Software to verify compliance with the above license agreements. Unless otherwise specified in the SCC, the Purchaser will make available to the Supplier, within seven (7) days of a written request, accurate and up-to-date records of the number and location of copies, the number of authorized users, or any other relevant data required to demonstrate use of the Standard Software as per the license agreement. If and only if, expressly agreed in writing between the Purchaser and the Supplier, Purchaser will allow, under a pre-specified agreed procedure, the execution of embedded functions under Supplier's control, unencumbered transmission of resulting information on software usage.

17. Confidential Information

- 17.1 Unless otherwise specified in the SCC, the "Receiving Party" (either the Purchaser 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.
- 17.2 For the purposes of GCC Clause 17.1, 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 Purchaser or the Purchaser's use of the System.
- 17.3 Notwithstanding GCC Clauses 17.1 and 17.2:
 - (a) the Supplier may furnish to its Subcontractor Confidential Information of the Purchaser to the extent reasonably required for the Subcontractor to perform its work under the Contract; and
 - (b) the Purchaser 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 17 as if that person were party to the Contract in place of the Receiving Party.

17.4 The Purchaser 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 Purchaser's prior written consent, use any Confidential Information received from the Purchaser for any purpose other than those that are required for the performance of the Contract.

- 17.5 The obligation of a party under GCC Clauses 17.1 through 17.4 above, however, shall not apply to that information which:
 - (a) now or hereafter enters the public domain through no fault of the Receiving Party;
 - (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;
 - (c) otherwise lawfully becomes available to the Receiving Party from a third party that has no obligation of confidentiality;
 - (d) is being provided to the Bank.
- 17.6 The above provisions of this GCC Clause 17 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.
- 17.7 **Unless otherwise specified in the SCC**, the provisions of this GCC Clause 17 shall survive the termination, for whatever reason, of the Contract for three (3) years.

E. SUPPLY, INSTALLATION, TESTING, COMMISSIONING, AND ACCEPTANCE OF THE SYSTEM

18. Representatives 18.1 Project Manager

If the Project Manager is not named in the Contract, then within fourteen (14) days of the Effective Date, the Purchaser shall appoint and notify the Supplier in writing of the name of the Project Manager. The Purchaser may from time to time appoint some other person as the Project Manager in place of the person previously so appointed and shall give a notice of the name of such other person to the Supplier without delay. No such appointment shall be made at such a time or in such a manner as to impede the progress of work on the System. Such appointment shall take effect only upon receipt of such notice by the Supplier. Unless otherwise specified in the SCC (if any), the Project Manager shall have the authority to represent the Purchaser on all day-to-day matters relating to the System or arising from the Contract, and shall normally be the person giving

or receiving notices on behalf of the Purchaser pursuant to GCC Clause 4.

18.2 Supplier's Representative

- 18.2.1 If the Supplier's Representative is not named in the Contract, then within fourteen (14) days of the Effective Date, the Supplier shall appoint the Supplier's Representative and shall request the Purchaser in writing to approve the person so appointed. The request must be accompanied by a detailed curriculum vitae for the nominee, as well as a description of any other System or non-System responsibilities the nominee would retain while performing the duties of the Supplier's Representative. If the Purchaser does not object to the appointment within fourteen (14) days, the Supplier's Representative shall be deemed to have been approved. If the Purchaser objects to the appointment within fourteen (14) days giving the reason therefor, then the Supplier shall appoint a replacement within fourteen (14) days of such objection in accordance with this GCC Clause 18.2.1.
- 18.2.2 Unless otherwise specified in the SCC (if any), the Supplier's Representative shall have the authority to represent the Supplier on all day-to-day matters relating to the System or arising from the Contract, and shall normally be the person giving or receiving notices on behalf of the Supplier pursuant to GCC Clause 4.
- 18.2.3 The Supplier shall not revoke the appointment of the Supplier's Representative without the Purchaser's prior written consent, which shall not be unreasonably withheld. If the Purchaser consents to such an action, the Supplier shall appoint another person of equal or superior qualifications as the Supplier's Representative, pursuant to the procedure set out in GCC Clause 18.2.1.
- 18.2.4 The Supplier's Representative and staff are obliged to work closely with the Purchaser's Project Manager and staff, act within their own authority, and abide by directives issued by the Purchaser that are consistent with the terms of the Contract. The Supplier's Representative is responsible for managing the activities of the Supplier's Personnel.
- 18.2.5 The Supplier's Representative may, subject to the approval of the Purchaser (which shall not be

unreasonably withheld), at any time delegate to any person any of the powers, functions, and authorities vested in him or her. Any such delegation may be revoked at any time. Any such delegation or revocation shall be subject to a prior notice signed by the Supplier's Representative and shall specify the powers, functions, and authorities thereby delegated or revoked. No such delegation or revocation shall take effect unless and until the notice of it has been delivered.

18.2.6 Any act or exercise by any person of powers, functions and authorities so delegated to him or her in accordance with GCC Clause 18.2.5 shall be deemed to be an act or exercise by the Supplier's Representative.

18.3 Removal of Supplier's Personnel

- 18.3.1 The Project Manager may require the Supplier to remove (or cause to be removed) the Supplier's Representative or any other person employed by the Supplier in the execution of the Contract, who:
 - (a) persists in any misconduct or lack of care;
 - (b) carries out duties incompetently or negligently;
 - (c) fails to comply with any provision of the Contract;
 - (d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment;
 - (e) based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Contract;
 - (f) has been recruited from the Purchaser's Personnel;
 - (g) engages in any other behaviour which breaches the Code of Conduct, as applicable;

If appropriate, the Supplier shall then promptly appoint (or cause to be appointed) a suitable replacement with equivalent skills and experience.

Notwithstanding any requirement from the Project Manager to remove or cause to remove any person, the Supplier shall take immediate action as appropriate in response to any violation of (a) through (g) above. Such immediate action shall include removing (or causing to be removed) from work on the System, any person

- Employed by the Supplier in the execution of the Contract who engages in (a), (b), (c), (d), (e) or (g) above or has been recruited as stated in (f) above.
- 18.3.2 If any representative or person employed by the Supplier is removed in accordance with GCC Clause 18.3.1, the Supplier shall, where required, promptly appoint a suitable replacement with equivalent skills and experience.

19. Project Plan

- 19.1 In close cooperation with the Purchaser and based on the Preliminary Project Plan included in the Supplier's proposal, 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.
- 19.2 Unless otherwise specified in the SCC, within thirty (30) days from the Effective Date of the Contract, the Supplier shall present a Project Plan to the Purchaser. Such submission to the Purchaser shall include any applicable environmental and social management plan to manage environmental and social risks and impacts. The Purchaser shall, within fourteen (14) days of receipt of the Project Plan, notify the Supplier of any respects in which it considers that the Project Plan does not adequately ensure that the proposed program of work, proposed methods, and/or proposed Information Technologies will satisfy the Technical Requirements and/or the SCC (in this Clause 19.2 called "non-conformities" below). The Supplier shall, within five (5) days of receipt of such notification, correct the Project Plan and resubmit to the Purchaser. The Purchaser shall, within five (5) days of resubmission of the Project Plan, notify the Supplier of any remaining nonconformities. This procedure shall be repeated as necessary until the Project Plan is free from non-conformities. When the Project Plan is free from non-conformities, the Purchaser shall provide confirmation in writing to the Supplier. This approved Project Plan ("the Agreed Project Plan") shall be contractually binding on the Purchaser and the Supplier.
- 19.3 If required, the impact on the Implementation Schedule of modifications agreed during finalization of the Agreed Project Plan shall be incorporated in the Contract by amendment, in accordance with GCC Clauses 39 and 40.

- 19.4 The Supplier shall undertake to supply, install, test, and commission the System in accordance with the Agreed Project Plan and the Contract.
- 19.5 **Unless otherwise specified in the SCC**, the Supplier shall submit to the Purchaser Monthly Progress Reports summarizing:
 - (i) results accomplished during the prior period;
 - (ii) cumulative deviations to date from schedule of progress milestones as specified in the Agreed Project Plan;
 - (iii) corrective actions to be taken to return to planned schedule of progress; proposed revisions to planned schedule:
 - (iv) other issues and outstanding problems; proposed actions to be taken;
 - (v) resources that the Supplier expects to be provided by the Purchaser and/or actions to be taken by the Purchaser in the next reporting period;
 - (vi) status of compliance to environmental and social requirements, as applicable;
 - (vii) other issues or potential problems the Supplier foresees that could impact on project progress and/or effectiveness.
- 19.6 The Supplier shall submit to the Purchaser other (periodic) reports as specified in the SCC.
- 19.7 Immediate Reporting requirement

The Supplier shall inform the Project Manager immediately of any allegation, incident or accident in Project Site/s, which has or is likely to have a significant adverse effect on the environment, the affected communities, the public, Purchaser's Personnel or Supplier's Personnel. This includes, but is not limited to, any incident or accident causing fatality or serious injury; significant adverse effects or damage to private property; any cyber security incidents as **specified in the SCC**; or any allegation of SEA and/or SH. In case of SEA and/or SH, while maintaining confidentiality as appropriate, the type of allegation (sexual exploitation, sexual abuse or sexual harassment), gender and age of the person who experienced the alleged incident should be included in the information.

The Supplier, upon becoming aware of the allegation, incident or accident, shall also immediately inform the Purchaser of any such incident or accident on the Subcontractors' or suppliers' premises relating to the Contract which has or is likely to have a significant adverse effect on the environment, the affected communities, the public, Purchaser's Personnel or Supplier's Personnel. The notification shall provide sufficient detail regarding such incidents or accidents.

The Supplier shall provide full details of such incidents or accidents to the Project Manager within the timeframe agreed with the Purchaser.

The Purchaser shall require its Subcontractors to immediately notify it of any incidents or accidents referred to in this Sub- Clause.

20. Subcontracting

20.1

- Appendix 3 (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 Purchaser. 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 Purchaser for its approval in sufficient time so as not to impede the progress of work on the System. Submision by the Supplier, for addition of any Subcontractor not named in the Contract, shall also include the Subcontractor's declaration in accordance with Appendix 2 to the GCC- Sexual exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration. Approval by the Purchaser of a Subcontractor(s) shall not relieve the Supplier from any of its obligations, duties, or responsibilities under the Contract.
- 20.2 The Supplier may, at its discretion, select and employ Subcontractors for such critical items from those Subcontractors listed pursuant to GCC Clause 20.1. If the Supplier wishes to employ a Subcontractor not so listed, or subcontract an item not so listed, it must seek the Purchaser's prior approval under GCC Clause 20.3.
- 20.3 For items for which pre-approved Subcontractor lists have not been specified in Appendix 3 to the Contract

Agreement, the Supplier may employ such Subcontractors as it may select, provided: (i) the Supplier notifies the Purchaser in writing at least twenty-eight (28) days prior to the proposed mobilization date for such Subcontractor, including by providing the Subcontractor's declaration in accordance with Appendix 2 to the GCC- Sexual exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration; and (ii) by the end of this period either the Purchaser has granted its approval in writing or fails to respond. The Supplier shall not engage any Subcontractor to which the Purchaser has objected in writing prior to the end of the notice period. The absence of a written objection by the Purchaser 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 Purchaser of Subcontractors not listed in the Contract Agreement, nothing in this Clause, however, shall limit the rights and obligations of either the Purchaser or Supplier as they are specified in GCC Clauses 20.1 and 20.2, or in Appendix 3 of the Contract Agreement.

20.4 The Supplier shall ensure that its Subcontractors comply with the relevant ES requirements and the obligations set out in GCC Clause 9.9.

21. Design and Engineering

21.1 Technical Specifications and Drawings

21.1.1 The Supplier shall execute the basic and detailed design and the implementation activities necessary for successful installation of the System in compliance with the provisions of the Contract or, where not so specified, in accordance with good industry practice.

The Supplier shall be responsible for any discrepancies, errors or omissions in the specifications, drawings, and other technical documents that it has prepared, whether such specifications, drawings, and other documents have been approved by the Project Manager or not, provided that such discrepancies, errors, or omissions are not because of inaccurate information furnished in writing to the Supplier by or on behalf of the Purchaser.

21.1.2 The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification, or other document, or any modification of such design, drawings, specification, or other documents provided or designated by or on behalf of the Purchaser, by

giving a notice of such disclaimer to the Project Manager.

21.2 Codes and Standards

Wherever references are made in the Contract to codes and standards in accordance with which the Contract shall be executed, the edition or the revised version of such codes and standards current at the date twenty-eight (28) days prior to date of proposal submission shall apply. During Contract execution, any changes in such codes and standards shall be applied after approval by the Purchaser and shall be treated in accordance with GCC Clause 39.3.

- 21.3 Approval/Review of Controlling Technical Documents by the Project Manager
 - 21.3.1 Unless otherwise specified in the SCC, there will NO Controlling Technical Documents required. However, if the SCC specifies Controlling Technical Documents, the Supplier shall prepare and furnish such documents for the Project Manager's approval or review.

Any part of the System covered by or related to the documents to be approved by the Project Manager shall be executed only after the Project Manager's approval of these documents.

GCC Clauses 21.3.2 through 21.3.7 shall apply to those documents requiring the Project Manager's approval, but not to those furnished to the Project Manager for its review only.

- 21.3.2 Within fourteen (14) days after receipt by the Project Manager of any document requiring the Project Manager's approval in accordance with GCC Clause 21.3.1, the Project Manager shall either return one copy of the document to the Supplier with its approval endorsed on the document or shall notify the Supplier in writing of its disapproval of the document and the reasons for disapproval and the modifications that the Project Manager proposes. If the Project Manager fails to take such action within the fourteen (14) days, then the document shall be deemed to have been approved by the Project Manager.
- 21.3.3 The Project Manager shall not disapprove any document except on the grounds that the document

- does not comply with some specified provision of the Contract or that it is contrary to good industry practice.
- 21.3.4 If the Project Manager disapproves the document, the Supplier shall modify the document and resubmit it for the Project Manager's approval in accordance with GCC Clause 21.3.2. If the Project Manager approves the document subject to modification(s), the Supplier shall make the required modification(s), and the document shall then be deemed to have been approved, subject to GCC Clause 21.3.5. The procedure set out in GCC Clauses 21.3.2 through 21.3.4 shall be repeated, as appropriate, until the Project Manager approves such documents.
- 21.3.5 If any dispute occurs between the Purchaser and the Supplier in connection with or arising out of the disapproval by the Project Manager of any document and/or any modification(s) to a document that cannot be settled between the parties within a reasonable period, then, in case the Contract Agreement includes and names an Adjudicator, such dispute may be referred to the Adjudicator for determination in accordance with GCC Clause 43.1 (Adjudication). If such dispute is referred to an Adjudicator, the Project Manager shall give instructions as to whether and if so, how, performance of the Contract is to proceed. The Supplier shall proceed with the Contract in accordance with the Project Manager's instructions, provided that if the Adjudicator upholds the Supplier's view on the dispute and if the Purchaser has not given notice under GCC Clause 43.1.2, then the Supplier shall be reimbursed by the Purchaser for any additional costs incurred by reason of such instructions and shall be relieved of such responsibility or liability in connection with the dispute and the execution of the instructions as the Adjudicator shall decide, and the Time for Achieving Operational Acceptance shall be extended accordingly.
- 21.3.6 The Project Manager's approval, with or without modification of the document furnished by the Supplier, shall not relieve the Supplier of any responsibility or liability imposed upon it by any provisions of the Contract except to the extent that any subsequent failure results from modifications required by the Project Manager or inaccurate information

furnished in writing to the Supplier by or on behalf of the Purchaser.

21.3.7 The Supplier shall not depart from any approved document unless the Supplier has first submitted to the Project Manager an amended document and obtained the Project Manager's approval of the document, pursuant to the provisions of this GCC Clause 21.3. If the Project Manager requests any change in any already approved document and/or in any document based on such an approved document, the provisions of GCC Clause 39 (Changes to the System) shall apply to such request.

22. Procurement, Delivery, and Transport

- 22.1 Subject to related Purchaser's responsibilities pursuant to GCC Clauses 10 and 14, 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.
- 22.2 Delivery of the Information Technologies, Materials, and other Goods shall be made by the Supplier in accordance with the Technical Requirements.
- 22.3 Early or partial deliveries require the explicit written consent of the Purchaser, which consent shall not be unreasonably withheld.
- 22.4 Transportation
 - 22.4.1 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 Purchaser's instructions to the Supplier.
 - 22.4.2 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.
 - 22.4.3 **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.

- 22.5 **Unless otherwise specified in the SCC,** the Supplier will provide the Purchaser with shipping and other documents, as specified below:
 - 22.5.1 For Goods supplied from outside the Purchaser's Country:

Upon shipment, the Supplier shall notify the Purchaser and the insurance company contracted by the Supplier to provide cargo insurance by cable, facsimile, electronic mail, or EDI with the full details of the shipment. The Supplier shall promptly send the following documents to the Purchaser by mail or courier, as appropriate, with a copy to the cargo insurance company:

- (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 Purchaser's Country and at the site.
- 22.5.2 For Goods supplied locally (i.e., from within the Purchaser's country):

Upon shipment, the Supplier shall notify the Purchaser by cable, facsimile, electronic mail, or EDI with the full details of the shipment. The Supplier shall promptly send the following documents to the Purchaser by mail or courier, as appropriate:

- (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.

22.6 Customs Clearance

(a) The Purchaser will bear responsibility for, and cost of, customs clearance into the Purchaser's country in accordance the particular Incoterm(s) used for

- Goods supplied from outside the Purchaser's country in the Price Schedules referred to by Article 2 of the Contract Agreement.
- (b) At the request of the Purchaser, the Supplier will make available a representative or agent during the process of customs clearance in the Purchaser's country for goods supplied from outside the Purchaser's country. In the event of delays in customs clearance that are not the fault of the Supplier:
 - (i) the Supplier shall be entitled to an extension in the Time for Achieving Operational Acceptance, pursuant to GCC Clause 40;
 - (ii) 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.

23. Product Upgrades

- 23.1 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 proposal and still to be delivered, the Supplier shall be obligated to offer to the Purchaser the latest versions of the available Information Technologies having equal or better performance or functionality at the same or lesser unit prices, pursuant to GCC Clause 39 (Changes to the System).
- At any point during performance of the Contract, for Information Technologies still to be delivered, the Supplier will also pass on to the Purchaser any cost reductions and additional and/or improved support and facilities that it offers to other clients of the Supplier in the Purchaser's Country, pursuant to GCC Clause 39 (Changes to the System).
- 23.3 During performance of the Contract, the Supplier shall offer to the Purchaser 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 Purchaser'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 proposal.
- Unless otherwise specified in the SCC, during the Warranty Period, the Supplier will provide at no additional cost to the Purchaser all new versions, releases, and updates for all Standard Software that are used in the System, within thirty (30) days of their availability from the Supplier to other clients of the Supplier in the Purchaser's country, and no later than twelve (12) months after they are released in the country of origin of the Software.
- 23.5 The Purchaser shall introduce all new versions, releases or updates of the Software within eighteen (18) months of receipt of a production-ready copy of the new version, release, or update, provided that the new version, release, or update does not adversely affect System operation or performance or require extensive reworking of the System. In cases where the new version, release, or update adversely affects System operation or performance, or requires extensive reworking of the System, the Supplier shall continue to support and maintain the version or release previously in operation for as long as necessary to allow introduction of the new version, release, or update. In no case shall the Supplier stop supporting or maintaining a version or release of the Software less than twenty four (24) months after the Purchaser receives a production-ready copy of a subsequent version, release, or update. The Purchaser shall use all reasonable endeavors to implement any new version, release, or update as soon as practicable, subject to the twenty-four-month-long stop date.

24. Implementation, Installation, and Other Services

- 24.1 The Supplier shall provide all Services specified in the Contract and Agreed Project Plan in accordance with the highest standards of professional competence and integrity.
- 24.2 Prices charged by the Supplier for Services, if not included in the Contract, shall be agreed upon in advance by the parties (including, but not restricted to, any prices submitted by the Supplier in the Recurrent Cost Schedules of its proposal) and shall not exceed the prevailing rates charged by the Supplier to other purchasers in the Purchaser's Country for similar services.

25. Inspections and Tests

- 25.1 The Purchaser or its representative shall have the right to inspect and/or test any components of the System, as specified in the Technical Requirements, to confirm their good working order and/or conformity to the Contract at the point of delivery and/or at the Project Site.
- 25.2 The Purchaser or its representative shall be entitled to attend any such inspections and/or tests of the components, provided that the Purchaser shall bear all costs and expenses incurred in connection with such attendance, including but not limited to all inspection agent fees, travel, and related expenses.
- 25.3 Should the inspected or tested components fail to conform to the Contract, the Purchaser may reject the component(s), and the Supplier shall either replace the rejected component(s), or make alterations as necessary so that it meets the Contract requirements free of cost to the Purchaser.
- 25.4 The Project Manager 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.
- 25.5 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 pursuant to GCC Clause 43 (Settlement of Disputes), starting with referral of the matter to the Adjudicator in case an Adjudicator is included and named in the Contract Agreement.

26. Installation of the System

26.1

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 Project Plan, the Supplier shall so notify the Purchaser in writing.

- 26.2 The Project Manager shall, within fourteen (14) days after receipt of the Supplier's notice under GCC Clause 26.1, either issue an Installation Certificate in the form specified in the Sample Contractual Forms Section in the request for proposals document, 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 27.2.1), has achieved Installation by the date of the Supplier's notice under GCC Clause 26.1, 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 Purchaser in writing, in accordance with GCC Clause 26.1. The procedure set out in this GCC Clause 26.2 shall be repeated, as necessary, until an Installation Certificate is issued.
- 26.3 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 26.1, or if the Purchaser 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 Purchaser put the System into production operation, as the case may be.

27. Commissioning and Operational Acceptance

27.1 Commissioning

- 27.1.1 Commissioning of the System (or Subsystem if specified pursuant to the SCC for GCC Clause 27.2.1) shall be commenced by the Supplier:
 - (a) immediately after the Installation Certificate is issued by the Project Manager, pursuant to GCC Clause 26.2; or
 - (b) as otherwise specified in the Technical Requirement or the Agreed Project Plan; or

- (c) immediately after Installation is deemed to have occurred, under GCC Clause 26.3.
- 27.1.2 The Purchaser 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.

27.2 Operational Acceptance Tests

27.2.1 The Operational Acceptance Tests (and repeats of such tests) shall be the primary responsibility of the Purchaser (in accordance with GCC Clause 10.9), but shall be conducted with the full cooperation of the Supplier during Commissioning of the System (or major components or Subsystem[s]), 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 proposal, including, but not restricted to, the functional and technical performance requirements.

Unless otherwise specified in the SCC, the Operational Acceptance Tests during Commissioning will be conducted as specified in the Technical Requirements and/or the Agreed Project Plan.

At the Purchaser'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.

27.2.2 If for reasons attributable to the Purchaser, the Operational Acceptance Test of the System (or Subsystem[s] or major components, pursuant to the SCC for GCC Clause 27.2.1) cannot be successfully completed within ninety (90) days from the date of Installation or any other period agreed upon in writing by the Purchaser 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 Project Plan, and GCC Clause 28.2 and 28.3 shall not apply.

27.3 Operational Acceptance

- 27.3.1 Subject to GCC Clause 27.4 (Partial Acceptance) below, Operational Acceptance shall occur in respect of the System, when
 - (a) the Operational Acceptance Tests, as specified in the Technical Requirements, and/or SCC and/or the Agreed 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 Purchaser 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 Purchaser 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 Purchaser and document such use.
- 27.3.2 At any time after any of the events set out in GCC Clause 27.3.1 have occurred, the Supplier may give a notice to the Project Manager requesting the issue of an Operational Acceptance Certificate.
- 27.3.3 After consultation with the Purchaser, and within fourteen (14) days after receipt of the Supplier's notice, the Project Manager shall:
 - (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 27.3.1 (b) arises.
- 27.3.4 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 Purchaser, and the Purchaser, 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

Purchaser of its request for Operational Acceptance Certification, in accordance with GCC Clause 27.3.3. The Purchaser shall then issue to the Supplier the Operational Acceptance Certification in accordance with GCC Clause 27.3.3 (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 27.3.4 shall be repeated, as necessary, until an Operational Acceptance Certificate is issued.

- 27.3.5 If the System or Subsystem fails to pass the Operational Acceptance Test(s) in accordance with GCC Clause 27.2, then either:
 - (a) the Purchaser may consider terminating the Contract, pursuant to GCC Clause 41.2.2; or
 - (b) if the failure to achieve Operational Acceptance within the specified time period is a result of the failure of the Purchaser 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, and GCC Clauses 30.3 and 30.4 shall not apply.
- 27.3.6 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.

27.4 Partial Acceptance

27.4.1 If so specified in the SCC for GCC Clause 27.2.1, 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 27.4.2.
- 27.4.2 The issuance of Operational Acceptance Certificates for individual major components or Subsystems pursuant to GCC Clause 27.4.1 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 Clauses 12.1 and 27.2.1) once all major components and Subsystems have been supplied, installed, tested, and commissioned.
- 27.4.3 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 Purchaser or Supplier.

F. GUARANTEES AND LIABILITIES

28. Operational Acceptance Time Guarantee

- 28.1 The Supplier guarantees that it shall complete the supply, Installation, Commissioning, and achieve Operational Acceptance of the System (or Subsystems, pursuant to the SCC for GCC Clause 27.2.1) within the time periods specified in the Implementation Schedule and/or the Agreed Project Plan pursuant to GCC Clause 8.2, or within such extended time to which the Supplier shall be entitled under GCC Clause 40 (Extension of Time for Achieving Operational Acceptance).
- 28.2 Unless otherwise specified in the SCC, if the Supplier fails to supply, install, commission, and achieve Operational Acceptance of the System (or Subsystems pursuant to the SCC for GCC Clause 27.2.1) within the time for achieving Operational Acceptance specified in the Implementation Schedule or the Agreed Project Plan, or any extension of the time for achieving Operational Acceptance previously granted under GCC Clause 40 (Extension of Time for Achieving Operational Acceptance), the Supplier shall pay to the Purchaser liquidated damages at the rate of one half of one percent per week as a percentage of the Contract Price

(exclusive of Recurrent Costs if any), or the relevant part of the Contract Price if a Subsystem has not achieved Operational Acceptance. The aggregate amount of such liquidated damages shall in no event exceed the amount of ten (10) percent of the Contract Price (exclusive of Recurrent Costs if any). Once the Maximum is reached, the Purchaser may consider termination of the Contract, pursuant to GCC Clause 41.2.2.

- 28.3 Unless otherwise specified in the SCC, liquidated damages payable under GCC Clause 28.2 shall apply only to the failure to achieve Operational Acceptance of the System (and Subsystems) as specified in the Implementation Schedule and/or Agreed Project Plan. This Clause 28.3 shall not limit, however, any other rights or remedies the Purchaser may have under the Contract for other delays.
- 28.4 If liquidated damages are claimed by the Purchaser for the System (or Subsystem), the Supplier shall have no further liability whatsoever to the Purchaser in respect to the Operational Acceptance time guarantee for the System (or Subsystem). However, the payment of liquidated damages shall not in any way relieve the Supplier from any of its obligations to complete the System or from any other of its obligations and liabilities under the Contract.

29. Defect Liability

- 29.1 The Supplier warrants that the System, including all Information Technologies, Materials, and other Goods supplied and Services provided, shall be free from defects in the design, engineering, Materials, and workmanship that prevent the System and/or any of its components from fulfilling the Technical Requirements or that limit in a fashion the performance, reliability, extensibility of the System and/or Subsystems. Unless otherwise specified in the SCC, there will be NO exceptions and/or limitations to this warranty with respect to Software (or categories of Software). 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.
- 29.2 The Supplier also warrants that the Information Technologies, Materials, and other Goods supplied under the Contract are new, unused, and incorporate all recent improvements in design that materially affect the System's

- or Subsystem's ability to fulfill the Technical Requirements.
- 29.3 Unless otherwise specified in the SCC, the Supplier warrants that: (i) all Goods components to be incorporated into the System form part of the Supplier's and/or Subcontractor's current product lines, and (ii) they have been previously released to the market.
- 29.4 **Unless otherwise specified in the SCC**, the 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 extend for thirty-six (36) months.
- 29.5 If during the Warranty Period any defect as described in GCC Clause 29.1 should be found in the design, engineering, Materials, and workmanship of Information Technologies and other Goods supplied or of the Services provided by the Supplier, the Supplier shall promptly, in consultation and agreement with the Purchaser 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.
- 29.6 The Supplier shall not be responsible for the repair, replacement, or making good of any defect, or of any damage to the System arising out of or resulting from any of the following causes:
 - (a) improper operation or maintenance of the System by the Purchaser;
 - (b) normal wear and tear;
 - (c) use of the System with items not supplied by the Supplier, unless otherwise identified in the Technical Requirements, or approved by the Supplier; or
 - (d) modifications made to the System by the Purchaser, or a third party, not approved by the Supplier.
- 29.7 The Supplier's obligations under this GCC Clause 29 shall not apply to:

- (a) any materials that are normally consumed in operation or have a normal life shorter than the Warranty Period; or
- (b) any designs, specifications, or other data designed, supplied, or specified by or on behalf of the Purchaser or any matters for which the Supplier has disclaimed responsibility, in accordance with GCC Clause 21.1.2.
- 29.8 The Purchaser shall give the Supplier a notice promptly following the discovery of such defect, stating the nature of any such defect together with all available evidence. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect any such defect. The Purchaser shall afford the Supplier all necessary access to the System and the site to enable the Supplier to perform its obligations under this GCC Clause 29.
- 29.9 The Supplier may, with the consent of the Purchaser, remove from the site any Information Technologies and other Goods that are defective, if the nature of the defect, and/or any damage to the System caused by the defect, is such that repairs cannot be expeditiously carried out at the site. If the repair, replacement, or making good is of such a character that it may affect the efficiency of the System, the Purchaser may give the Supplier notice requiring that tests of the defective part be made by the Supplier immediately upon completion of such remedial work, whereupon the Supplier shall carry out such tests.

If such part fails the tests, the Supplier shall carry out further repair, replacement, or making good (as the case may be) until that part of the System passes such tests. The tests shall be agreed upon by the Purchaser and the Supplier.

29.10 Unless otherwise specified in the SCC, the response times and repair/replacement times for Warranty Defect Repair are specified in the Technical Requirements. Nevertheless, if the Supplier fails to commence the work necessary to remedy such defect or any damage to the System caused by such defect within two weeks the Purchaser may, following notice to the Supplier, proceed to do such work or contract a third party (or parties) to do such work, and the reasonable costs incurred by the Purchaser in connection with such work shall be paid to the Purchaser by the Supplier or may be deducted by the Purchaser from

- any monies due the Supplier or claimed under the Performance Security.
- 29.11 If the System or Subsystem cannot be used by reason of such defect and/or making good of such defect, the Warranty Period for the System shall be extended by a period equal to the period during which the System or Subsystem could not be used by the Purchaser because of such defect and/or making good of such defect.
- 29.12 Items substituted for defective parts of the System during the Warranty Period shall be covered by the Defect Liability Warranty for the remainder of the Warranty Period applicable for the part replaced or three (3) months, whichever is greater. For reasons of information security, the Purchaser may choose to retain physical possession of any replaced defective information storage devices.
- 29.13 At the request of the Purchaser and without prejudice to any other rights and remedies that the Purchaser may have against the Supplier under the Contract, the Supplier will offer all possible assistance to the Purchaser to seek warranty services or remedial action from any subcontracted third-party producers or licensor of Goods included in the System, including without limitation assignment or transfer in favor of the Purchaser of the benefit of any warranties given by such producers or licensors to the Supplier.

30. Functional Guarantees

- 30.1 The Supplier guarantees that, once the Operational Acceptance Certificate(s) has been issued, the System represents a complete, integrated solution to the Purchaser's requirements set forth in the Technical Requirements and it conforms to all other aspects of the Contract. The Supplier acknowledges that GCC Clause 27 regarding Commissioning and Operational Acceptance governs how technical conformance of the System to the Contract requirements will be determined.
- 30.2 If, for reasons attributable to the Supplier, the System does not conform to the Technical Requirements or does not conform to all other aspects of the Contract, the Supplier shall at its cost and expense make such changes, modifications, and/or additions to the System as may be necessary to conform to the Technical Requirements and meet all functional and performance standards. The Supplier shall notify the Purchaser upon completion of the necessary changes, modifications, and/or additions and

shall request the Purchaser to repeat the Operational Acceptance Tests until the System achieves Operational Acceptance.

30.3 If the System (or Subsystem[s]) fails to achieve Operational Acceptance, the Purchaser may consider termination of the Contract, pursuant to GCC Clause 41.2.2, and forfeiture of the Supplier's Performance Security in accordance with GCC Clause 13.3 in compensation for the extra costs and delays likely to result from this failure.

31. Intellectual Property Rights Warranty

31.1 The Supplier hereby represents and warrants that:

- (a) the System as supplied, installed, tested, and accepted;
- (b) use of the System in accordance with the Contract; and
- (c) copying of the Software and Materials provided to the Purchaser in accordance with the Contract

do not and will not infringe any Intellectual Property Rights held by any third party and that it has all necessary rights or at its sole expense shall have secured in writing all transfers of rights and other consents necessary to make the assignments, licenses, and other transfers of Intellectual Property Rights and the warranties set forth in the Contract, and for the Purchaser to own or exercise all Intellectual Property Rights as provided in the Contract. Without limitation, the Supplier shall secure all necessary written agreements, consents, and transfers of rights from its employees and other persons or entities whose services are used for development of the System.

32. Intellectual Property Rights Indemnity

32.1 The Supplier shall indemnify and hold harmless the Purchaser 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 Purchaser or its employees or officers may suffer as a result of any infringement or alleged infringement of any Intellectual Property Rights by reason of:

- (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 Purchaser's breach of GCC Clause 32.2.
- 32.2 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.
- 32.3 Such indemnities shall also not apply if any claim of infringement:
 - (a) is asserted by a parent, subsidiary, or affiliate of the Purchaser's organization;
 - (b) is a direct result of a design mandated by the Purchaser's Technical Requirements and the possibility of such infringement was duly noted in the Supplier's Proposal; or
 - (c) results from the alteration of the System, including the Materials, by the Purchaser or any persons other than the Supplier or a person authorized by the Supplier.
- 32.4 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Clause 32.1, the Purchaser shall promptly give the Supplier notice of such proceedings or claims, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf. Unless the Supplier has so failed to notify the Purchaser within the twenty-eight (28) days, the Purchaser shall make no admission that may be prejudicial to the defense of any such proceedings or claim. The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim and shall be

reimbursed by the Supplier for all reasonable expenses incurred in so doing.

32.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors 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 Supplier or its employees, officers, or Subcontractors may suffer as a result of any infringement or alleged infringement of any Intellectual Property Rights arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided to the Supplier in connection with this Contract by the Purchaser or any persons (other than the Supplier) contracted by the Purchaser, except to the extent that such losses, liabilities, and costs arise as a result of the Supplier's breach of GCC Clause 32.8.

32.6 Such indemnity shall not cover

- (a) any use of the design, data, drawing, specification, or other documents or materials, other than for the purpose indicated by or to be reasonably inferred from the Contract;
- (b) any infringement resulting from the use of the design, data, drawing, specification, or other documents or materials, or any products produced thereby, in association or combination with any other Goods or Services not provided by the Purchaser or any other person contracted by the Purchaser, where the infringement arises because of such association or combination and not because of the use of the design, data, drawing, specification, or other documents or materials in its own right.

32.7 Such indemnities shall also not apply:

- (a) if any claim of infringement is asserted by a parent, subsidiary, or affiliate of the Supplier's organization;
- (b) to the extent that any claim of infringement is caused by the alteration, by the Supplier, or any persons contracted by the Supplier, of the design, data, drawing, specification, or other documents or materials provided to the Supplier by the Purchaser or any persons contracted by the Purchaser.

32.8 If any proceedings are brought or any claim is made against the Supplier arising out of the matters referred to in GCC Clause 32.5, the Supplier shall promptly give the Purchaser notice of such proceedings or claims, and the Purchaser may at its own expense and in the Supplier's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. If the Purchaser fails to notify the Supplier within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Supplier shall be free to conduct the same on its own behalf. Unless the Purchaser has so failed to notify the Supplier within the twenty-eight (28) days, the Supplier shall make no admission that may be prejudicial to the defense of any such proceedings or claim. The Supplier shall, at the Purchaser's request, afford all available assistance to the Purchaser in conducting such proceedings or claim and shall be reimbursed by the Purchaser for all reasonable expenses incurred in so doing.

33. Limitation of Liability

- 33.1 Provided the following does not exclude or limit any liabilities of either party in ways not permitted by applicable law:
 - (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser; and
 - (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to any obligation of the Supplier to indemnify the Purchaser with respect to intellectual property rights infringement.

G. RISK DISTRIBUTION

34. Transfer of Ownership

34.1 With the exception of Software and Materials, the ownership of the Information Technologies and other Goods shall be transferred to the Purchaser at the time of

- Delivery or otherwise under terms that may be agreed upon and specified in the Contract Agreement.
- 34.2 Ownership and the terms of usage of the Software and Materials supplied under the Contract shall be governed by GCC Clause 15 (Copyright) Clause 16 (Software License Agreements), and any elaboration in the Technical Requirements.
- 34.3 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.

35. Care of the System

- 35.1 The Purchaser shall become responsible for the care and custody of the System or Subsystems upon their Delivery. The Purchaser shall make good at its own cost any loss or damage that may occur to the System or Subsystems from any cause from the date of Delivery until the date of Operational Acceptance of the System or Subsystems, pursuant to GCC Clause 27 (Commissioning and Operational Acceptance), excepting such loss or damage arising from acts or omissions of the Supplier, its employees, or subcontractors.
- 35.2 If any loss or damage occurs to the System or any part of the System by reason of:
 - (a) (insofar as they relate to the country where the Project Site is located) nuclear reaction, nuclear radiation, radioactive contamination, a pressure wave caused by aircraft or other aerial objects, or any other occurrences that an experienced Supplier could not reasonably foresee, or if reasonably foreseeable could not reasonably make provision for or insure against, insofar as such risks are not normally insurable on the insurance market and are mentioned in the general exclusions of the policy of insurance taken out under GCC Clause 37;
 - (b) any use not in accordance with the Contract, by the Purchaser or any third party;
 - (c) any use of or reliance upon any design, data, or specification provided or designated by or on behalf of the Purchaser, or any such matter for which the Supplier has disclaimed responsibility in accordance with GCC Clause 21.1.2,

the Purchaser shall pay to the Supplier all sums payable in respect of the System or Subsystems that have achieved Operational Acceptance, notwithstanding that the same be lost, destroyed, or damaged. If the Purchaser requests the Supplier in writing to make good any loss or damage to the System thereby occasioned, the Supplier shall make good the same at the cost of the Purchaser in accordance with GCC Clause 39. If the Purchaser does not request the Supplier in writing to make good any loss or damage to the System thereby occasioned, the Purchaser shall either request a change in accordance with GCC Clause 39, excluding the performance of that part of the System thereby lost, destroyed, or damaged, or, where the loss or damage affects a substantial part of the System, the Purchaser shall terminate the Contract pursuant to GCC Clause 41.1.

- 35.3 The Purchaser shall be liable for any loss of or damage to any Supplier's Equipment which the Purchaser has authorized to locate within the Purchaser's premises for use in fulfillment of Supplier's obligations under the Contract, except where such loss or damage arises from acts or omissions of the Supplier, its employees, or subcontractors.
- 36. Loss of or
 Damage to
 Property;
 Accident or
 Injury to
 Workers;
 Indemnification
- 36.1 The Supplier and each and every Subcontractor shall abide by the job safety, insurance, customs, and immigration measures prevalent and laws in force in the Purchaser's Country.
- 36.2 Subject to GCC Clause 36.3, the Supplier shall indemnify and hold harmless the Purchaser 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 Purchaser or its employees or officers may suffer as a result of the death or injury of any person or loss of or damage to any property (other than the System, whether accepted or not) arising in connection with the supply, installation, testing, and Commissioning of the System and by reason of the negligence of the Supplier or its Subcontractors, or their employees, officers or agents, except any injury, death, or property damage caused by the negligence of the Purchaser, its contractors, employees, officers, or agents.
- 36.3 If any proceedings are brought or any claim is made against the Purchaser that might subject the Supplier to liability under GCC Clause 36.2, the Purchaser shall promptly give the Supplier notice of such proceedings or claims, and the

Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf. Unless the Supplier has so failed to notify the Purchaser within the twenty-eight (28) day period, the Purchaser shall make no admission that may be prejudicial to the defense of any such proceedings or claim. The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

- 36.4 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from any and all losses, liabilities, and costs (including losses, liabilities, and costs incurred in defending a claim alleging such a liability) that the Supplier or its employees, officers, or Subcontractors may suffer as a result of the death or personal injury of any person or loss of or damage to property of the Purchaser, other than the System not yet achieving Operational Acceptance, that is caused by fire, explosion, or any other perils, in excess of the amount recoverable from insurances procured under GCC Clause 37 (Insurances), provided that such fire, explosion, or other perils were not caused by any act or failure of the Supplier.
- 36.5 If any proceedings are brought or any claim is made against the Supplier that might subject the Purchaser to liability under GCC Clause 36.4, the Supplier shall promptly give the Purchaser notice of such proceedings or claims, and the Purchaser may at its own expense and in the Supplier's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. If the Purchaser fails to notify the Supplier within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Supplier shall be free to conduct the same on its own behalf. Unless the Purchaser has so failed to notify the Supplier within the twenty-eight (28) days, the Supplier shall make no admission that may be prejudicial to the defense of any such proceedings or claim. The Supplier shall, at the Purchaser's request, afford all available assistance to the Purchaser in conducting such proceedings or claim and

shall be reimbursed by the Purchaser for all reasonable expenses incurred in so doing.

36.6 The party entitled to the benefit of an indemnity under this GCC Clause 36 shall take all reasonable measures to mitigate any loss or damage that has occurred. If the party fails to take such measures, the other party's liabilities shall be correspondingly reduced.

37. Insurances

37.1 The Supplier shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurance set forth below. The identity of the insurers and the form of the policies shall be subject to the approval of the Purchaser, who should not unreasonably withhold such approval.

(a) Cargo Insurance During Transport

as applicable, 110 percent of the price of the Information Technologies and other Goods in a freely convertible currency, covering the Goods from physical loss or damage during shipment through receipt at the Project Site.

(b) Installation "All Risks" Insurance

as applicable, 110 percent of the price of the Information Technologies and other Goods covering the Goods at the site from all risks of physical loss or damage (excluding only perils commonly excluded under "all risks" insurance policies of this type by reputable insurers) occurring prior to Operational Acceptance of the System.

(c) Third-Party Liability Insurance

On terms as **specified in the SCC**, covering bodily injury or death suffered by third parties (including the Purchaser's personnel) and loss of or damage to property (including the Purchaser's property and any Subsystems that have been accepted by the Purchaser) occurring in connection with the supply and installation of the Information System.

(d) Automobile Liability Insurance

In accordance with the statutory requirements prevailing in the Purchaser's Country, covering use of all vehicles used by the Supplier or its Subcontractors (whether or not owned by them) in connection with the execution of the Contract.

- (e) Other Insurance (if any), as **specified in the SCC.**
- 37.2 The Purchaser shall be named as co-insured under all insurance policies taken out by the Supplier pursuant to GCC Clause 37.1, except for the Third-Party Liability, and the Supplier's Subcontractors shall be named as co-insured under all insurance policies taken out by the Supplier pursuant to GCC Clause 37.1 except for Cargo Insurance During Transport. All insurer's rights of subrogation against such co-insured for losses or claims arising out of the performance of the Contract shall be waived under such policies.
- 37.3 The Supplier shall deliver to the Purchaser certificates of insurance (or copies of the insurance policies) as evidence that the required policies are in full force and effect.
- 37.4 The Supplier shall ensure that, where applicable, its Subcontractor(s) shall take out and maintain in effect adequate insurance policies for their personnel and vehicles and for work executed by them under the Contract, unless such Subcontractors are covered by the policies taken out by the Supplier.
- 37.5 If the Supplier fails to take out and/or maintain in effect the insurance referred to in GCC Clause 37.1, the Purchaser may take out and maintain in effect any such insurance and may from time to time deduct from any amount due the Supplier under the Contract any premium that the Purchaser shall have paid to the insurer or may otherwise recover such amount as a debt due from the Supplier.
- 37.6 Unless otherwise provided in the Contract, the Supplier shall prepare and conduct all and any claims made under the policies affected by it pursuant to this GCC Clause 37, and all monies payable by any insurers shall be paid to the Supplier. The Purchaser shall give to the Supplier all such reasonable assistance as may be required by the Supplier in connection with any claim under the relevant insurance policies. With respect to insurance claims in which the Purchaser's interest is involved, the Supplier shall not give any release or make any compromise with the insurer without the prior written consent of the Purchaser. With respect to insurance claims in which the Supplier's interest is involved, the Purchaser shall not give any release or

make any compromise with the insurer without the prior written consent of the Supplier.

38. Force Majeure

- 38.1 "Force Majeure" shall mean any event beyond the reasonable control of the Purchaser or of the Supplier, as the case may be, and which is unavoidable notwithstanding the reasonable care of the party affected and shall include, without limitation, the following:
 - (a) war, hostilities, or warlike operations (whether a state of war be declared or not), invasion, act of foreign enemy, and civil war;
 - (b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion, and terrorist acts;
 - (c) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler, or any other act or failure to act of any local state or national government authority;
 - (d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, quarantine, and plague;
 - (e) earthquake, landslide, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves, or other natural or physical disaster;
 - (f) failure, by the Supplier, to obtain the necessary export permit(s) from the governments of the Country(s) of Origin of the Information Technologies or other Goods, or Supplier's Equipment provided that the Supplier has made all reasonable efforts to obtain the required export permit(s), including the exercise of due diligence in determining the eligibility of the System and all of its components for receipt of the necessary export permits.
- 38.2 If either party is prevented, hindered, or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the

- circumstances of the event of Force Majeure within fourteen (14) days after the occurrence of such event.
- The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered, or delayed. The Time for Achieving Operational Acceptance shall be extended in accordance with GCC Clause 40 (Extension of Time for Achieving Operational Acceptance).
- 38.4 The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upon its or their performance of the Contract and to fulfill its or their obligations under the Contract, but without prejudice to either party's right to terminate the Contract under GCC Clause 38.6.
- 38.5 No delay or nonperformance by either party to this Contract caused by the occurrence of any event of Force Majeure shall:
 - (a) constitute a default or breach of the Contract;
 - (b) (subject to GCC Clauses 35.2, 38.3, and 38.4) give rise to any claim for damages or additional cost or expense occasioned by the delay or nonperformance,
 - if, and to the extent that, such delay or nonperformance is caused by the occurrence of an event of Force Majeure.
- 38.6 If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of one or more events of Force Majeure during the time period covered by the Contract, the parties will attempt to develop a mutually satisfactory solution, failing which, either party may terminate the Contract by giving a notice to the other.
- 38.7 In the event of termination pursuant to GCC Clause 38.6, the rights and obligations of the Purchaser and the Supplier shall be as specified in GCC Clauses 41.1.2 and 41.1.3.
- 38.8 Notwithstanding GCC Clause 38.5, Force Majeure shall not apply to any obligation of the Purchaser to make payments to the Supplier under this Contract.

H. CHANGE IN CONTRACT ELEMENTS

39. Changes to the System

39.1 Introducing a Change

39.1.1 Subject to GCC Clauses 39.2.5 and 39.2.7, the Purchaser shall have the right to propose, and subsequently require, the Project Manager to order the Supplier from time to time during the performance of the Contract to make any change, modification, addition, or deletion to, in, or from the System (interchangeably called "Change"), provided that such Change falls within the general scope of the System, does not constitute unrelated work, and is technically practicable, taking into account both the state of advancement of the System and the technical compatibility of the Change envisaged with the nature of the System as originally specified in the Contract.

A Change may involve, but is not restricted to, the substitution of updated Information Technologies and related Services in accordance with GCC Clause 23 (Product Upgrades).

- 39.1.2 The Supplier may from time to time during its performance of the Contract propose to the Purchaser (with a copy to the Project Manager) any Change that the Supplier considers necessary or desirable to improve the quality or efficiency of the System. The Purchaser may at its discretion approve or reject any Change proposed by the Supplier.
- 39.1.3 Notwithstanding GCC Clauses 39.1.1 and 39.1.2, no change made necessary because of any default of the Supplier in the performance of its obligations under the Contract shall be deemed to be a Change, and such change shall not result in any adjustment of the Contract Price or the Time for Achieving Operational Acceptance.
- 39.1.4 The procedure on how to proceed with and execute Changes is specified in GCC Clauses 39.2 and 39.3, and further details and sample forms are provided in the Sample Contractual Forms Section in the request for proposals document.
- 39.1.5 Moreover, the Purchaser and Supplier will agree, during development of the Project Plan, to a date prior to the scheduled date for Operational Acceptance, after

which the Technical Requirements for the System shall be "frozen." Any Change initiated after this time will be dealt with after Operational Acceptance.

- 39.2 Changes Originating from Purchaser
 - 39.2.1 If the Purchaser proposes a Change pursuant to GCC Clauses 39.1.1, it shall send to the Supplier a "Request for Change Proposal," requiring the Supplier to prepare and furnish to the Project Manager as soon as reasonably practicable a "Change Proposal," which shall include the following:
 - (a) brief description of the Change;
 - (b) impact on the Time for Achieving Operational Acceptance;
 - (c) detailed estimated cost of the Change;
 - (d) effect on Functional Guarantees (if any);
 - (e) effect on any other provisions of the Contract; and
 - (f) any additional documents as **specified in the SCC**.
 - 39.2.2 Prior to preparing and submitting the "Change Proposal," the Supplier shall submit to the Project Manager a "Change Estimate Proposal," which shall be an estimate of the cost of preparing the Change Proposal, plus a first approximation of the suggested approach and cost for implementing the changes. Upon receipt of the Supplier's Change Estimate Proposal, the Purchaser shall do one of the following:
 - (a) accept the Supplier's estimate with instructions to the Supplier to proceed with the preparation of the Change Proposal;
 - (b) advise the Supplier of any part of its Change Estimate Proposal that is unacceptable and request the Supplier to review its estimate;
 - (c) advise the Supplier that the Purchaser does not intend to proceed with the Change.
 - 39.2.3 Upon receipt of the Purchaser's instruction to proceed under GCC Clause 39.2.2 (a), the Supplier shall, with proper expedition, proceed with the preparation of the Change Proposal, in accordance with GCC Clause 39.2.1. The Supplier, at its discretion, may specify a validity period for the Change Proposal, after which if the Purchaser and Supplier has not reached

- agreement in accordance with GCC Clause 39.2.6, then GCC Clause 39.2.7 shall apply.
- 39.2.4 The pricing of any Change shall, as far as practicable, be calculated in accordance with the rates and prices included in the Contract. If the nature of the Change is such that the Contract rates and prices are inequitable, the parties to the Contract shall agree on other specific rates to be used for valuing the Change.
- 39.2.5 If before or during the preparation of the Change Proposal it becomes apparent that the aggregate impact of compliance with the Request for Change Proposal and with all other Change Orders that have already become binding upon the Supplier under this GCC Clause 39 would be to increase or decrease the Contract Price as originally set forth in Article 2 (Contract Price) of the Contract Agreement by more than fifteen (15) percent, the Supplier may give a written notice of objection to this Request for Change Proposal prior to furnishing the Change Proposal. If the Purchaser accepts the Supplier's objection, the Purchaser shall withdraw the proposed Change and shall notify the Supplier in writing of its acceptance.

The Supplier's failure to so object to a Request for Change Proposal shall neither affect its right to object to any subsequent requested Changes or Change Orders, nor affect its right to take into account, when making such subsequent objection, the percentage increase or decrease in the Contract Price that any Change not objected to by the Supplier represents.

39.2.6 Upon receipt of the Change Proposal, the Purchaser and the Supplier shall mutually agree upon all matters contained in the Change Proposal. Within fourteen (14) days after such agreement, the Purchaser shall, if it intends to proceed with the Change, issue the Supplier a Change Order. If the Purchaser is unable to reach a decision within fourteen (14) days, it shall notify the Supplier with details of when the Supplier can expect a decision. If the Purchaser decides not to proceed with the Change for whatever reason, it shall, within the said period of fourteen (14) days, notify the Supplier accordingly. Under such circumstances, the Supplier shall be entitled to reimbursement of all costs reasonably incurred by it in the preparation of the Change Proposal, provided that these do not exceed the

amount given by the Supplier in its Change Estimate Proposal submitted in accordance with GCC Clause 39.2.2.

39.2.7 If the Purchaser and the Supplier cannot reach agreement on the price for the Change, an equitable adjustment to the Time for Achieving Operational Acceptance, or any other matters identified in the Change Proposal, the Change will not be implemented. However, this provision does not limit the rights of either party under GCC Clause 6 (Settlement of Disputes).

39.3 Changes Originating from Supplier

If the Supplier proposes a Change pursuant to GCC Clause 39.1.2, the Supplier shall submit to the Project Manager a written "Application for Change Proposal," giving reasons for the proposed Change and including the information specified in GCC Clause 39.2.1. Upon receipt of the Application for Change Proposal, the parties shall follow the procedures outlined in GCC Clauses 39.2.6 and 39.2.7. However, should the Purchaser choose not to proceed or the Purchaser and the Supplier cannot come to agreement on the change during any validity period that the Supplier may specify in its Application for Change Proposal, the Supplier shall not be entitled to recover the costs of preparing the Application for Change Proposal, unless subject to an agreement between the Purchaser and the Supplier to the contrary.

- 39.4 Value engineering. The Supplier may prepare, at its own cost, a value engineering proposal at any time during the performance of the Contract. The value engineering proposal shall, at a minimum, include the following;
 - (a) the proposed change(s), and a description of the difference to the existing Contract requirements;
 - (b) a full cost/benefit analysis of the proposed change(s) including a description and estimate of costs (including life cycle costs) the Purchaser may incur in implementing the value engineering proposal; and
 - (c) a description of any effect(s) of the change on performance/functionality.

The Purchaser may accept the value engineering proposal if the proposal demonstrates benefits that:

(a) accelerates the delivery period; or

- (b) reduces the Contract Price or the life cycle costs to the Purchaser; or
- (c) improves the quality, efficiency, safety or sustainability of the systems; or
- (d) yields any other benefits to the Purchaser,

without compromising the necessary functions of the systems.

If the value engineering proposal is approved by the Purchaser and results in:

- (a) a reduction of the Contract Price; the amount to be paid to the Supplier shall be the percentage specified in the SCC of the reduction in the Contract Price; or
- (b) an increase in the Contract Price; but results in a reduction in life cycle costs due to any benefit described in (a) to (d) above,

the amount to be paid to the Supplier shall be the full increase in the Contract Price.

40. Extension of Time for Achieving Operational Acceptance

- 40.1 The time(s) for achieving Operational Acceptance specified in the Schedule of Implementation shall be extended if the Supplier is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:
 - (a) any Change in the System as provided in GCC Clause 39 (Change in the Information System);
 - (b) any occurrence of Force Majeure as provided in GCC Clause 38 (Force Majeure);
 - (c) default of the Purchaser; or
 - (d) any other matter specifically mentioned in the Contract:

by such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Supplier.

40.2 Except where otherwise specifically provided in the Contract, the Supplier shall submit to the Project Manager a notice of a claim for an extension of the time for achieving Operational Acceptance, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable

after receipt of such notice and supporting particulars of the claim, the Purchaser and the Supplier shall agree upon the period of such extension. In the event that the Supplier does not accept the Purchaser's estimate of a fair and reasonable time extension, the Supplier shall be entitled to refer the matter to the provisions for the Settlement of Disputes pursuant to GCC Clause 43.

40.3 The Supplier shall at all times use its reasonable efforts to minimize any delay in the performance of its obligations under the Contract.

41. Termination

41.1 Termination for Purchaser's Convenience

- 41.1.1 The Purchaser may at any time terminate the Contract for any reason by giving the Supplier a notice of termination that refers to this GCC Clause 41.1.
- 41.1.2 Upon receipt of the notice of termination under GCC Clause 41.1.1, the Supplier shall either as soon as reasonably practical or upon the date specified in the notice of termination
 - (a) cease all further work, except for such work as the Purchaser may specify in the notice of termination for the sole purpose of protecting that part of the System already executed, or any work required to leave the site in a clean and safe condition:
 - (b) terminate all subcontracts, except those to be assigned to the Purchaser pursuant to GCC Clause 41.1.2 (d) (ii) below;
 - (c) remove all Supplier's Equipment from the site, repatriate the Supplier's Personnel from the site, remove from the site any wreckage, rubbish, and debris of any kind;
 - (d) in addition, the Supplier, subject to the payment specified in GCC Clause 41.1.3, shall
 - (i) deliver to the Purchaser the parts of the System executed by the Supplier up to the date of termination:
 - (ii) to the extent legally possible, assign to the Purchaser all right, title, and benefit of the Supplier to the System, or Subsystem, as at the date of termination, and, as may be required by the Purchaser, in any

- subcontracts concluded between the Supplier and its Subcontractors;
- (iii) deliver to the Purchaser all nonproprietary drawings, specifications, and other documents prepared by the Supplier or its Subcontractors as of the date of termination in connection with the System.
- 41.1.3 In the event of termination of the Contract under GCC Clause 41.1.1, the Purchaser shall pay to the Supplier the following amounts:
 - (a) the Contract Price, properly attributable to the parts of the System executed by the Supplier as of the date of termination;
 - (b) the costs reasonably incurred by the Supplier in the removal of the Supplier's Equipment from the site and in the repatriation of the Supplier's Personnel;
 - (c) any amount to be paid by the Supplier to its Subcontractors in connection with the termination of any subcontracts, including any cancellation charges;
 - (d) costs incurred by the Supplier in protecting the System and leaving the site in a clean and safe condition pursuant to GCC Clause 41.1.2 (a); and
 - (e) the cost of satisfying all other obligations, commitments, and claims that the Supplier may in good faith have undertaken with third parties in connection with the Contract and that are not covered by GCC Clauses 41.1.3 (a) through (d) above.

41.2 Termination for Supplier's Default

- 41.2.1 The Purchaser, without prejudice to any other rights or remedies it may possess, may terminate the Contract forthwith in the following circumstances by giving a notice of termination and its reasons therefore to the Supplier, referring to this GCC Clause 41.2:
 - (a) if the Supplier becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, if the Supplier is a corporation, a resolution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of

- amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Supplier takes or suffers any other analogous action in consequence of debt;
- (b) if the Supplier assigns or transfers the Contract or any right or interest therein in violation of the provision of GCC Clause 42 (Assignment); or
- (c) if the Supplier, in the judgment of the Purchaser has engaged in Fraud and Corruption, as defined in paragraph 2.2 a. of the Appendix 1 to the GCC, in competing for or in executing the Contract, including but not limited to willful misrepresentation of facts concerning ownership of Intellectual Property Rights in, or proper authorization and/or licenses from the owner to offer, the hardware, software, or materials provided under this Contract.

41.2.2 If the Supplier:

- (a) has abandoned or repudiated the Contract;
- (b) has without valid reason failed to commence work on the System promptly;
- (c) persistently fails to execute the Contract in accordance with the Contract or persistently neglects to carry out its obligations under the Contract without just cause;
- (d) refuses or is unable to provide sufficient Materials, Services, or labor to execute and complete the System in the manner specified in the Agreed Project Plan furnished under GCC Clause 19 at rates of progress that give reasonable assurance to the Purchaser that the Supplier can attain Operational Acceptance of the System by the Time for Achieving Operational Acceptance as extended;

then the Purchaser may, without prejudice to any other rights it may possess under the Contract, give a notice to the Supplier stating the nature of the default and requiring the Supplier to remedy the same. If the Supplier fails to remedy or to take steps to remedy the same within thirty (30) days of its receipt of such notice, then the Purchaser may terminate the Contract

- forthwith by giving a notice of termination to the Supplier that refers to this GCC Clause 41.2.
- 41.2.3 Upon receipt of the notice of termination under GCC Clauses 41.2.1 or 41.2.2, the Supplier shall, either immediately or upon such date as is specified in the notice of termination:
 - (a) cease all further work, except for such work as the Purchaser may specify in the notice of termination for the sole purpose of protecting that part of the System already executed or any work required to leave the site in a clean and safe condition:
 - (b) terminate all subcontracts, except those to be assigned to the Purchaser pursuant to GCC Clause 41.2.3 (d) below;
 - (c) deliver to the Purchaser the parts of the System executed by the Supplier up to the date of termination;
 - (d) to the extent legally possible, assign to the Purchaser all right, title and benefit of the Supplier to the System or Subsystems as at the date of termination, and, as may be required by the Purchaser, in any subcontracts concluded between the Supplier and its Subcontractors;
 - (e) deliver to the Purchaser all drawings, specifications, and other documents prepared by the Supplier or its Subcontractors as at the date of termination in connection with the System.
- 41.2.4 The Purchaser may enter upon the site, expel the Supplier, and complete the System itself or by employing any third party. Upon completion of the System or at such earlier date as the Purchaser thinks appropriate, the Purchaser shall give notice to the Supplier that such Supplier's Equipment will be returned to the Supplier at or near the site and shall return such Supplier's Equipment to the Supplier in accordance with such notice. The Supplier shall thereafter without delay and at its cost remove or arrange removal of the same from the site.
- 41.2.5 Subject to GCC Clause 41.2.6, the Supplier shall be entitled to be paid the Contract Price attributable to the portion of the System executed as at the date of termination and the costs, if any, incurred in protecting

the System and in leaving the site in a clean and safe condition pursuant to GCC Clause 41.2.3 (a). Any sums due the Purchaser from the Supplier accruing prior to the date of termination shall be deducted from the amount to be paid to the Supplier under this Contract.

41.2.6 If the Purchaser completes the System, the cost of completing the System by the Purchaser shall be determined. If the sum that the Supplier is entitled to be paid, pursuant to GCC Clause 41.2.5, plus the reasonable costs incurred by the Purchaser in completing the System, exceeds the Contract Price, the Supplier shall be liable for such excess. If such excess is greater than the sums due the Supplier under GCC Clause 41.2.5, the Supplier shall pay the balance to the Purchaser, and if such excess is less than the sums due the Supplier under GCC Clause 41.2.5, the Purchaser shall pay the balance to the Supplier. The Purchaser and the Supplier shall agree, in writing, on the computation described above and the manner in which any sums shall be paid.

41.3 Termination by Supplier

41.3.1 If:

- (a) the Purchaser has failed to pay the Supplier any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause pursuant to the SCC, or commits a substantial breach of the Contract, the Supplier may give a notice to the Purchaser that requires payment of such sum, with interest on this sum as stipulated in GCC Clause 12.3, requires approval of such invoice or supporting documents, or specifies the breach and requires the Purchaser to remedy the same, as the case may be. If the Purchaser fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Supplier's notice; or
- (b) the Supplier is unable to carry out any of its obligations under the Contract for any reason attributable to the Purchaser, including but not

limited to the Purchaser's failure to provide possession of or access to the site or other areas or failure to obtain any governmental permit necessary for the execution and/or completion of the System;

then the Supplier may give a notice to the Purchaser of such events, and if the Purchaser has failed to pay the outstanding sum, to approve the invoice or supporting documents, to give its reasons for withholding such approval, or to remedy the breach within twenty-eight (28) days of such notice, or if the Supplier is still unable to carry out any of its obligations under the Contract for any reason attributable to the Purchaser within twenty-eight (28) days of the said notice, the Supplier may by a further notice to the Purchaser referring to this GCC Clause 41.3.1, forthwith terminate the Contract.

- 41.3.2 The Supplier may terminate the Contract immediately by giving a notice to the Purchaser to that effect, referring to this GCC Clause 41.3.2, if the Purchaser becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, being a corporation, if a resolution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Purchaser takes or suffers any other analogous action in consequence of debt.
- 41.3.3 If the Contract is terminated under GCC Clauses 41.3.1 or 41.3.2, then the Supplier shall immediately:
 - (a) cease all further work, except for such work as may be necessary for the purpose of protecting that part of the System already executed, or any work required to leave the site in a clean and safe condition;
 - (b) terminate all subcontracts, except those to be assigned to the Purchaser pursuant to Clause 41.3.3 (d) (ii);
 - (c) remove all Supplier's Equipment from the site and repatriate the Supplier's Personnel from the site.

- (d) In addition, the Supplier, subject to the payment specified in GCC Clause 41.3.4, shall:
 - (i) deliver to the Purchaser the parts of the System executed by the Supplier up to the date of termination;
 - (ii) to the extent legally possible, assign to the Purchaser all right, title, and benefit of the Supplier to the System, or Subsystems, as of the date of termination, and, as may be required by the Purchaser, in any subcontracts concluded between the Supplier and its Subcontractors;
 - (iii) to the extent legally possible, deliver to the Purchaser all drawings, specifications, and other documents prepared by the Supplier or its Subcontractors as of the date of termination in connection with the System.
- 41.3.4 If the Contract is terminated under GCC Clauses 41.3.1 or 41.3.2, the Purchaser shall pay to the Supplier all payments specified in GCC Clause 41.1.3 and reasonable compensation for all loss, except for loss of profit, or damage sustained by the Supplier arising out of, in connection with, or in consequence of such termination.
- 41.3.5 Termination by the Supplier pursuant to this GCC Clause 41.3 is without prejudice to any other rights or remedies of the Supplier that may be exercised in lieu of or in addition to rights conferred by GCC Clause 41.3.
- 41.4 In this GCC Clause 41, the expression "portion of the System executed" shall include all work executed, Services provided, and all Information Technologies, or other Goods acquired (or subject to a legally binding obligation to purchase) by the Supplier and used or intended to be used for the purpose of the System, up to and including the date of termination.
- 41.5 In this GCC Clause 41, in calculating any monies due from the Purchaser to the Supplier, account shall be taken of any sum previously paid by the Purchaser to the Supplier under the Contract, including any advance payment paid pursuant to the SCC.

42.1

42. Assignment

Neither the Purchaser nor the Supplier shall, without the express prior written consent of the other, assign to any third party the Contract or any part thereof, or any right, benefit, obligation, or interest therein or thereunder, except that the Supplier shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract.

I. SETTLEMENT OF DISPUTES

43. Settlement of Disputes

43.1 Adjudication

- 43.1.1 If any dispute of any kind whatsoever shall arise between the Purchaser and the Supplier in connection with or arising out of the Contract, including without prejudice to the generality of the foregoing, any question regarding its existence, validity, termination, or the operation of the System (whether during the progress of implementation or after its achieving Operational Acceptance and whether before or after the termination, abandonment, or breach of the Contract), the parties shall seek to resolve any such dispute by mutual consultation. If the parties fail to resolve such a dispute by mutual consultation within fourteen (14) days after one party has notified the other in writing of the dispute, then, if the Contract Agreement in Appendix 2 includes and names an Adjudicator, the dispute shall, within another fourteen (14) days, be referred in writing by either party to the Adjudicator, with a copy to the other party. If there is no Adjudicator specified in the Contract Agreement, the mutual consultation period stated above shall last twenty-eight (28) days (instead of fourteen), upon expiry of which either party may move to the notification of arbitration pursuant to GCC Clause 43.2.1.
- 43.1.2 The Adjudicator shall give his or her decision in writing to both parties within twenty-eight (28) days of the dispute being referred to the Adjudicator. If the Adjudicator has done so, and no notice of intention to commence arbitration has been given by either the Purchaser or the Supplier within fifty-six (56) days of such reference, the decision shall become final and binding upon the Purchaser and the Supplier. Any

- decision that has become final and binding shall be implemented by the parties forthwith.
- 43.1.3 The Adjudicator shall be paid an hourly fee at the rate specified in the Contract Agreement plus reasonable expenditures incurred in the execution of duties as Adjudicator, and these costs shall be divided equally between the Purchaser and the Supplier.
- 43.1.4 Should the Adjudicator resign or die, or should the Purchaser and the Supplier agree that the Adjudicator is not fulfilling his or her functions in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Purchaser and the Supplier. Failing agreement between the two within twenty-eight (28) days, the new Adjudicator shall be appointed at the request of either party by the Appointing Authority **specified in the SCC**, or, if no Appointing Authority is **specified in SCC**, the Contract shall, from this point onward and until the parties may otherwise agree on an Adjudicator or an Appointing Authority, be implemented as if there is no Adjudicator.

43.2 Arbitration

43.2.1 If

- (a) the Purchaser or the Supplier is dissatisfied with the Adjudicator's decision and acts before this decision has become final and binding pursuant to GCC Clause 43.1.2, or
- (b) the Adjudicator fails to give a decision within the allotted time from referral of the dispute pursuant to GCC Clause 43.1.2, and the Purchaser or the Supplier acts within the following fourteen (14) days, or
- (c) in the absence of an Adjudicator from the Contract Agreement, the mutual consultation pursuant to GCC Clause 43.1.1 expires without resolution of the dispute and the Purchaser or the Supplier acts within the following fourteen (14) days,

then either the Purchaser or the Supplier may act to give notice to the other party, with a copy for information to the Adjudicator in case an Adjudicator had been involved, of its intention to commence arbitration, as provided below, as to the matter in

- dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.
- 43.2.2 Any dispute in respect of which a notice of intention to commence arbitration has been given, in accordance with GCC Clause 43.2.1, shall be finally settled by arbitration. Arbitration may be commenced prior to or after Installation of the Information System.
- 43.2.3 Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC.**
- 43.3 Notwithstanding any reference to the Adjudicator or arbitration in this clause,
 - (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree;
 - (b) the Purchaser shall pay the Supplier any monies due the Supplier.

J. CYBER SECURITY

44. Cyber Security

44.1 **Pursuant to the SCC**, the Supplier, including its Subcontractors/ suppliers/ manufacturers shall take all technical and organizational measures necessary to protect the information technology systems and data used in connection with the Contract. Without limiting the foregoing, the Supplier, including its Subcontractors/ suppliers/ manufacturers, shall use all reasonable efforts to establish, maintain, implement and comply with, reasonable information technology, information security, cyber security and data protection controls, policies and procedures, including oversight, access controls, encryption, technological and physical safeguards and business continuity/disaster recovery and security plans that are designed to protect against and prevent breach, destruction, loss, unauthorized distribution, use, access, disablement, misappropriation or modification, or other compromise or misuse of or relating to any information technology system or data used in connection with the Contract.

APPENDIX 1

Fraud and Corruption

(Text in this Appendix shall not be modified)

1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
 - "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - v. "obstructive practice" is:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.

- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, subcontractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti-Corruption Guidelines, and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner; (ii) to be a nominated sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents, personnel, permit the Bank to inspect³ all accounts,

For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

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

Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

APPENDIX 2

Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration for Subcontractors

[The following table shall be filled in by each subcontractor proposed by the Supplier, that was not named in the Contract]

Subcontractor's Name: [insert full name]

Date: [insert day, month, year]
Contract reference [insert contract reference]
Page [insert page number] of [insert total number] pages

	SEA and/or SH Declaration
We:	
☐ (a) have not been subject to disquali	ification by the Bank for non-compliance with SEA/SH obligations.
☐ (b) are subject to disqualification by	the Bank for non-compliance with SEA/ SH obligations.
	tion by the Bank for non-compliance with SEA/SH obligations, and list. An arbitral award on the disqualification case has been made in
[If (c) above is applicable, attach evolunderlying the disqualification.]	idence of an arbitral award reversing the findings on the issues
Period of disqualification: From:	To:
Name of the Subcontractor	
Name of the person duly authorized	to sign on behalf of the Subcontractor
Title of the person signing on behalf	f of the Subcontractor
Signature of the person named above	ve
Date signed	day of
Countersignature of authorized repr	esentative of the Supplier:
Signature:	
Date signed	day of

SECTION IX - SPECIAL CONDITIONS OF CONTRACT

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Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions of the SCC shall prevail over those in the General Conditions of Contract. For the purposes of clarity, any referenced GCC clause numbers are indicated in the left column of the SCC.

A. CONTRACT AND INTERPRETATION

Definitions (GCC Clause 1)

GCC 1.1 (a) (ix)	The applicable edition of the Procurement Regulation is dated:
	Procurement of Goods, Works, and Non-consulting Services under IDA
	Loans by World Bank for IPF Borrowers", November 2020
GCC 1.1 (b) (i)	The Purchaser is: Competitive & Livable City of Karachi (CLICK),
	Investment Department, Government of Sindh
GCC 1.1 (b) (ii)	The Project Manager is: Project Director, CLICK SID
GCC 1.1 (e) (i)	The Purchaser's Country is: Islamic Republic of Pakistan
GCC 1.1 (e) (x)	The contract shall be valid till successful completion of the warranty period
	and all the contractual obligation and/or any extended period beyond the
	original warranty period as mutually agreed between the parties.
GCC 1.1 (e)	The Post-Warranty Services Period is 12 months starting with the
(xiii)	completion of the Warranty Period.

Notices (GCC Clause 4)

GCC 4.3	Address of the Project Manager: Project Director, Competitive and
	Livable City of Karachi (CLICK), Investment Department,
	Government of Sindh, 1st Floor, Block-A, Finance & Trade Center,
	Shahra-e-Faisal Karachi. Pakistan.
	Fallback address of the Purchaser: Project Director, Competitive and
	Livable City of Karachi (CLICK), Investment Department,
	Government of Sindh, 1st Floor, Block-A, Finance & Trade Center,
	Shahra-e-Faisal, Karachi. Pakistan.

B. SUBJECT MATTER OF CONTRACT

Scope of the System (GCC Clause 7)

	Supplier's Proposal: Please see the section System Inventory Table (Recurrent Cost Items) in Section – VII.
GCC 7.3	The Supplier's obligations under the Contract will include the following recurrent cost items, as identified in the Recurrent Cost tables in the

Time for Commencement and Operational Acceptance (GCC Clause 8)

GCC 8.1	The Supplier shall commence work on the System: from the signing date
	of the Contract.

Supplier's Responsibilities (GCC Clause 9)

GCC 9.1	Health and Safety manual is required.
GCC 9.8	The following sustainable procurement contractual provisions, apply: None
GCC 9.18	The Supplier " is required " to make security arrangements for the Project Site/s.

C. PAYMENT

Contract Price (GCC Clause 11)

GCC 11.2	Adjustments to the Contract Price shall be as follows: "not applicable"

Terms of Payment (GCC Clause 12)

GCC 12.1	Subject to the provisions of GCC Clause 12 (Terms of Payment),		
	the Purchaser shall pay the Contract Price to the Supplie		
	according to the categories and in the manner specified below.		
	Only the categories Advance Payment and Complete System		
	Integration relate to the entire Contract Price. In other payment		
	categories, the term "total Contract Price" means the total cost of		
	goods or services under the specific payment category. Within		
	each such category, the Contract Implementation Schedule may		

trigger pro-rata payments for the portion of the total Contract Price for the category corresponding to the goods or services actually Delivered, Installed, or Operationally Accepted, at unit prices and in the currencies specified in the Price Schedules of the Contract Agreement.

The payment will be made in the currency of contract as per the following Payment Milestone. All the payments against the deliverables will be vetted and endorsed by the **Technical Implementation Committee** (**TIC**) with the submission of the **Completion Certificate.** In case of foreign bidders, the terms of payment can be changed at the contract stage.

	Payment Milestone and Schedule		
Sr. No.	Milestone	Percentage	Proof of Document
1.	Advance Payment	10% of the Total Contract Price	Against receipt of a claim accompanied by the Advance Payment Security specified in GCC Clause 13.2.
2.	Information Technologies, Goods, Materials, and other Goods, with the Custom Software and Custom Materials	80% of the Total Contract Price or prorata Contract Price for the category against the 50% of Delivery, 15% of Installation and 15% of Operational Acceptance.	The payments against the deliverables will be vetted and endorsed by Technical Implementation Committee (TIC) with the submission of the Completion
3.	Training	5% of the Total Contract Price for training services at the start of the full training program.	Certificate.
4.	Complete System Integration	5% of the Total Contract Price, exclusive of all costs, as final payment against Operational Acceptance of the System as an integrated whole.	

The payment(s) shall be made upon completion of delivery and successful installation, testing, commissioning (as applicable) and subsequent acceptance as per respective clauses of the Contract together with verification/ acceptance/ sign-off of the Supplier's invoice(s) and Documents for Payments by the Purchaser.

	A sign-off by Purchaser regarding successful delivery and subsequent installation, testing, commissioning, and acceptance (as applicable) shall be a prerequisite before an invoice can be submitted by the Supplier.
	For the payments under this Contract, the Supplier must opt for any option(s) mentioned below at the time of proposal(s) submission. The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:
	A. Payment for Goods and Services Quoted in Local Currency (PKR):
	Purchaser will make individual invoice's payment through Cross Cheque in PKR to the Supplier.
	B. Payment for Goods Quoted in Foreign Currency:
	In the case of International Suppliers only, the World Bank upon request/advise of Purchaser will make up to 100% of individual invoice payment to the Supplier in the currency of the Proposal/ Contract via Telegraphic/ Bank Transaction in Foreign Bank account.
GCC 12.3	The Purchaser shall pay to the Supplier interest on the delayed payments at a rate of:
	KIBOR+ 1% For Local Currency (PKR)
	SOFR + 1% for USD
GCC 12.4	The Supplier will invoice the Purchaser in the currency used in the Contract Agreement and the Price Schedules it refers to, for Goods and Services supplied locally, and the conversion between this currency and Pak Rupees (PKR) for payment purposes.
	In case the two currencies are different - will be made as of the actual
	payment date using the exchange rate as per the TT selling rate issued by
	the Treasury Management Division of National Bank of Pakistan at
	https://www.nbp.com.pk/ratesheet/index.aspx prevailing on the
000 10 6	contract signing date.
GCC 12.6	There are no Special Conditions of Contract applicable to GCC Clause 12.6".

Securities (GCC Clause 13)

GCC 13.3.1 The Performance Se	curity shall be denominated in the currency of the
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	Contract for an amount equal to 8% (Eight percent) of the Contract Price, excluding any Recurrent Costs.
	• The Performance guarantee will be released after the successful completion of the entire project, endorsed by the Technical Implementation Committee (TIC).
	• The Performance Guarantee must be in the form of a Bank Guarantee issued by a Schedule Bank in Pakistan.
	• The Performance Security shall be in the shape of an unconditional and irrevocable Bank Guarantee issued by any scheduled bank in Pakistan as per applicable template valid for a period of twenty-eight (28) days beyond the completion of the Contract period.
GCC 13.3.4	During the Warranty Period (i.e., after Operational Acceptance of the System), the Performance Security shall be reduced to 1 % percent of the Contract Price, excluding any Recurrent Costs.
	Discharge of the Performance Security shall take place: Within twenty-eight (28) days following successful completion of warranty and performance obligations by the Supplier under the Contract.

D. INTELLECTUAL PROPERTY

Copyright (GCC Clause 15)

GCC 15.3	There are no Special Conditions of Contract applicable to GCC
	Clause 15.3
GCC 15.4	There are no Special Conditions of Contract applicable to GCC Clause
	15.4
GCC 15.5	There are no Special Conditions of Contract applicable to GCC
	Clause 15.5

Software License Agreements (GCC Clause 16)

There are no Special Conditions of Contract applicable to GCC
Clause 16.1 (a) (iv)

GCC 16.1 (b)	There are no Special Conditions of Contract applicable to GCC
(vi)	Clause 16.1 (b) (vi)
GCC 16.1 (b)	There are no Special Conditions of Contract applicable to GCC
(vii)	Clause 16.1 (b) (vii)
GCC 16.2	There are no Special Conditions of Contract applicable to GCC
	Clause 16.2

Confidential Information (GCC Clause 17)

GCC 17.1	There are no Special Conditions of Contract applicable to GCC
	Clause 17.1

E. SUPPLY, INSTALLATION, TESTING, COMMISSIONING, AND ACCEPTANCE OF THE SYSTEM

Representatives (GCC Clause 18)

GCC 18.1	There are no Special Conditions of Contract applicable to GCC
	Clause 18
GCC 18.2.2	There are no Special Conditions of Contract applicable to GCC
	Clause 18.2.2

Project Plan (GCC Clause 19)

GCC 19.1	Chapters in the Project Plan shall address the following subject:
	(a) Project Organization and Management Plan, including quality assurance, configuration management, problem escalation and resolution, etc.
	(b) Systems Development Methodology Plan
	(c) Delivery and Installation Plan
	(d) Integration and Data Migration Plan

	(e) Training Plan
	(f) Documentation Plan
	(g) Verification, Validation and Testing Plan
	(h) Technical Support Plan, including Warranty Services
	(i) Task, Time, and Resource Schedules;
	Further details regarding the required contents of each of the above chapters are contained in the Technical Requirements.
GCC 19.6	The Supplier shall submit to the Purchaser:
	(i) monthly inspection and quality assurance reports
	(ii) monthly training participants test results
GCC 19.7	There are no Special Conditions of Contract applicable to GCC
	Clause 19.7

Design and Engineering (GCC Clause 21)

GCC 21.3.1	There are no Special Conditions of Contract applicable to GCC Clause 21.3.1.

Product Upgrades (GCC Clause 23)

GCC 23.4	There are no Special Conditions of Contract applicable to GCC
	Clause 23.4.

Inspections and Tests (GCC Clause 25)

GCC 25	Pursuant to GCC Clause 25.
	i. The Purchaser or its representative shall have the right to inspect and/ or to test the Goods to confirm their conformity to the Technical/ Contract specifications at no extra cost to the Purchaser.
	ii. 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/ production data (if any/ applicable) and online verification from official web site of the Manufacture, shall be furnished to the inspectors at no charge to the Purchaser.

iii. Should any inspected or tested Goods fail to conform to the Specifications, the Purchaser may reject the Goods, and the Supplier shall replace the rejected Goods within three working days as per specification requirements free of cost to the Purchaser.

iv. The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at the Purchaser's delivery point shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Purchaser or its representative prior to the Goods' shipment from the factory/ warehouse.

v. Nothing mentioned here "Inspection and Tests" shall not in any way release the Supplier from any warranty or other obligations under this Contract.

Commissioning and Operational Acceptance (GCC Clause 27)

GCC 27.2.1	There are no Special Conditions of Contract applicable to GCC
	Clause 27.2.1.

F. GUARANTEES AND LIABILITIES

Operational Acceptance Time Guarantee (GCC Clause 28)

GCC 28.2	Liquidated damages shall be assessed at one half of one percent (0.5%) of the
	Contract Price per week for all components/deliverables with the exception of
	Warranty/ Maintenance Services.

	Clause 28.3.
GCC 28.3	There are no Special Conditions of Contract applicable to GCC
	right to move its case for encashment of Performance Security.
	However, if the damages amount exceeds 10%, the Purchaser reserves the
	Price.
	The maximum liquidated damages are ten percent (10%) of the Contract

Defect Liability (GCC Clause 29)

GCC 29.1	There are no Special Conditions of Contract applicable to GCC
	Clause 29.1.
GCC 29.4	There are no Special Conditions of Contract applicable to GCC
	Clause 29.4.
GCC 29.10	There are no Special Conditions of Contract applicable to GCC Clause
	29.10

Functional Guarantees (GCC Clause 30)

There are no Special Conditions of Contract applicable to GCC
Clause 30.
There are no Special Conditions of Contract applicable to GCC
Clause 32.
_

G. RISK DISTRIBUTION

Insurances (GCC Clause 37)

GCC 37.1 (c)	The Supplier shall obtain Third-Party Liability Insurance in the amount of
	One Hundred percent (100%) for supplied materials and software.
	The Insurance shall cover the period from beginning date, relative to the
	Effective Date of the Contract until expiration date, relative to the Effective
	Date of the Contract or its completion.
GCC 37.1 (e)	There are no Special Conditions of Contract applicable to GCC

Clause 37.1 (e).

H. CHANGE IN CONTRACT ELEMENTS

Changes to the System (GCC Clause 39)

GCC 39.2.1	There are no Special Conditions of Contract applicable to GCC
	Clause 39.2.1.
GCC 39.4	Value Engineering
	The Purchaser: will not consider a Value Engineering Proposal.

I. SETTLEMENT OF DISPUTES

Settlement of Disputes (GCC Clause 43)

GCC 43.1.4	The Appointing Authority for the Adjudicator is: Secretary, Investment Department, Government of Sindh, in mutual agreement with the Supplier.
GCC 43.2.3	If the Supplier is from outside the Purchaser's Country arbitration proceedings shall be conducted in accordance with the rules of arbitration of [select one of the following: the International Chamber of Commerce (ICC). These rules, in the version in force at the time of the request for arbitration, will be deemed to form part of this Contract. If the Supplier is a national of the Purchaser's Country, any dispute between the Purchaser and a Supplier arising in connection with the present Contract shall be referred to arbitration in accordance with the laws of the Purchaser's country. i.e. Arbitration Act 1940.

	J. Cyber Security				
	Cyber Security (GCC Clause 44)				
GCC 44.1	There are no Special Conditions of Contract applicable to GCC Clause 44.1.				

SECTION X - CONTRACT FORMS

Notes to the Purchaser on preparing the Contract Forms

Performance Security: Pursuant to GCC Clause 13.3, the successful Proposer is required to provide the Performance Security within twenty-eight (28) days of notification of Contract award.

Advance Payment Security: Pursuant to Clause 13.2, the successful Proposer is required to provide a bank guarantee securing the Advance Payment, if the SCC related to GCC Clause 12.1 provides for an Advance Payment.

Installation and Operational Acceptance Certificates: Recommended formats for these certificates are included in this SPD. Unless the Purchaser has good reason to require procedures that differ from those recommended, or to require different wording in the certificates, the procedures and forms shall be included unchanged. If the Purchaser wishes to amend the recommended procedures and/or certificates, it may propose alternatives for the approval of the World Bank before release of the request for proposals document to potential Proposers.

Change Order Procedures and Forms: Similar to the Installation and Operational Acceptance Certificates, the Change Estimate Proposal, Estimate Acceptance, Change Proposal, Change Order, and related Forms should be included in the request for proposals document unaltered. If the Purchaser wishes to amend the recommended procedures and/or certificates, it may propose alternatives for the approval of the World Bank before release of the request for proposals document.

Notes to Proposers on working with the Sample Contractual Forms

The following forms are to be completed and submitted by the successful Proposer following receipt of the Letter of Acceptance from the Purchaser: (i) Contract Agreement, with all Appendices; (ii) Performance Security; and (iii) Advance Payment Security.

- Contract Agreement: In addition to specifying the parties and the Contract Price, the Contract Agreement is where the: (i) Supplier Representative; (ii) if applicable, agreed Adjudicator and his/her compensation; and (iii) the List of Approved Subcontractors are specified. In addition, modifications to the successful Proposer's Proposal Price Schedules are attached to the Agreement. These contain corrections and adjustments to the Supplier's Proposal prices to correct errors, adjust the Contract Price to reflect if applicable any extensions to Proposal validity beyond the last day of original Proposal validity plus 56 days, etc.
- Performance Security: Pursuant to GCC Clause 13.3, the successful Proposer is required to provide the Performance Security in the form

contained in this section of this request for proposals document and in the amount specified in accordance with the SCC.

• Advance Payment Security: Pursuant to GCC Clause 13.2, the successful Proposer is required to provide a bank guarantee for the full amount of the Advance Payment - if an Advance Payment is specified in the SCC for GCC Clause 12.1 - in the form contained in this section of this request for proposals document or another form acceptable to the Purchaser. If a Proposer wishes to propose a different Advance Payment Security form, it should submit a copy to the Purchaser promptly for review and confirmation of acceptability before the proposal submission deadline.

The Purchaser and Supplier will use the following additional forms during Contract implementation to formalize or certify important Contract events: (i) the Installation and Operational Acceptance Certificates; and (ii) the various Change Order forms. These and the procedures for their use during performance of the Contract are included in the request for proposals document for the information of Proposers.

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NOTIFICATION OF INTENTION TO AWARD

[This Notification of Intention to Award shall be sent to each Proposer that submitted a Proposal, unless the Proposer has previously received notice of exclusion from the process Proposer.]

[Send this Notification to the Proposer's Authorized Representative named in the Proposer Information Form]

For the attention of Proposer's Authorized Representative

Name: [insert Authorized Representative's name]

Address: [insert Authorized Representative's Address]

Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers]

Email Address: [insert Authorized Representative's email address]

[IMPORTANT: insert the date that this Notification is transmitted to all participating Proposers. The Notification must be sent to all Proposers simultaneously. This means on the same date and as close to the same time as possible.]

DATE OF TRANSMISSION: This Notification is sent by: [specify email / fax] on [specify date] (local time)

Notification of Intention to Award

Purchaser: [insert the name of the Purchaser]

Project: [insert name of project]

Contract title: [insert the name of the contract]

Country: [insert country where RFP is issued]

Loan No. /Credit No. / Grant No.: [insert reference number for loan/credit/grant]

RFP No: [insert RFP reference number from Procurement Plan]

This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The transmission of this Notification begins the Standstill Period. During the Standstill Period you may:

- a) request a debriefing in relation to the evaluation of your Proposal, and/or
- b) submit a Procurement-related Complaint in relation to the decision to award the contract.

1. The successful Proposer

Name: [insert name of successful Proposer]

Address: [insert address of the successful Proposer]

Contract price: [insert contract price of the successful Proposer]

Total combined score: [insert the total combined score of the successful Proposer]

2. Other Proposers [INSTRUCTIONS: insert names of all Proposers that submitted a Proposal, Proposal prices as read out and evaluated, technical scores and combined scores.]

Name of Proposer	Technical Score (If applicable)	Proposal price	Evaluated Proposal Cost	Combined Score
[insert name]	[insert Technical score]	[insert Proposal price]	[insert evaluated cost]	[insert combined score]
[insert name]	[insert Technical score]	[insert Proposal price]	[insert evaluated cost]	[insert combined score]
[insert name]	[insert Technical score]	[insert Proposal price]	[insert evaluated cost]	[insert combined score]

3. Reason/s why your Proposal was unsuccessful [Delete if the combined score already reveals the reason]

[INSTRUCTIONS; State the reason/s why this Proposer's Proposal was unsuccessful. Do NOT include: (a) a point by point comparison with another Proposer's Proposal or (b) information that is marked confidential by the Proposer in its Proposal.]

4. How to request a debriefing

DEADLINE: The deadline to request a debriefing expires at midnight on [insert date] (local time).

You may request a debriefing in relation to the results of the evaluation of your Proposal. If you decide to request a debriefing your written request must be made within three (3) Business Days of receipt of this Notification of Intention to Award.

Provide the contract name, reference number, name of the Proposer, contact details; and address the request for debriefing as follows:

Attention: [insert full name of person, if applicable]

Title/position: [insert title/position]
Agency: [insert name of Purchaser]
Email address: [insert email address]

Fax number: [insert fax number or state "not applicable"]

If your request for a debriefing is received within the 3 Business Days deadline, we will provide the debriefing within five (5) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (5) Business Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end.

The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.

If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of the Contract Award Notice.

5. How to make a complaint

DEADLINE: The deadline for submitting a Procurement-related Complaint challenging the decision to award the contract expires on midnight, [insert date] (local time).

Provide the contract name, reference number, name of the Proposer, contact details; and address the Procurement-related Complaint as follows:

Attention: [insert full name of person, if applicable]

Title/position: [insert title/position]
Agency: [insert name of Purchaser]
Email address: [insert email address]

Fax number: [insert fax number or state "not applicable"]

At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.

For more information see the "<u>Procurement Regulations for IPF Borrowers (Procurement Regulations)</u> (Annex III)." You should read these provisions before preparing and submitting your complaint. In addition, the World Bank's Guidance "<u>How to make a Procurement-related Complaint</u>" provides a useful explanation of the process, as well as a sample letter of complaint.

In summary, there are four essential requirements:

1. You must be an 'interested party'. In this case, that means a Proposer who submitted a Proposal in this procurement, and is the recipient of a Notification of Intention to Award.

- 2. The complaint can only challenge the decision to award the contract.
- 3. You must submit the complaint within the deadline stated above.
- 4. You must include, in your complaint, all of the information required by the Procurement Regulations (as described in Annex III).

6. Standstill Period

DEADLINE: The Standstill Period is due to end at midnight on [insert date] (local time).

The Standstill Period lasts ten (10) Business Days after the date of transmission of this Notification of Intention to Award.

The Standstill Period may be extended. This may happen where we are unable to provide a debriefing within the five (5) Business Day deadline. If this happens we will notify you of the extension.

If you have any questions regarding this Notification please do not hesitate to contact us.

On behalf of the Purchaser:

Signature:
Title/position: [insert title/position]
Agency: [insert name of Purchaser]
Email address: [insert email address]
Telephone number: [insert <i>telephone number</i>]

BENEFICIAL OWNERSHIP DISCLOSURE FORM

INSTRUCTIONS TO PROPOSERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE FORM

This Beneficial Ownership Disclosure Form ("Form") is to be completed by the successful Proposer. In case of joint venture, the Proposer must submit a separate Form for each member. The beneficial ownership information to be submitted in this Form shall be current as of the date of its submission.

For the purposes of this Form, a Beneficial Owner of a Proposer is any natural person who ultimately owns or controls the Proposer by meeting one or more of the following conditions:

- directly or indirectly holding 25% or more of the shares
- *directly or indirectly holding 25% or more of the voting rights*
- *directly or indirectly having the right to appoint a majority of the board of*

RFP No.: [insert number of RFP process]
Request for Proposals No.: [insert identification]

To: [insert complete name of Purchaser]

In response to your request in the Letter of Acceptance dated [insert date of letter of Acceptance] to furnish additional information on beneficial ownership: [select one option as applicable and delete the options that are not applicable]

(i) we hereby provide the following beneficial ownership information.

Details of beneficial ownership

1	Directly or indirectly holding 25% or more of the shares (Yes / No)	Directly or indirectly holding 25 % or more of the Voting Rights (Yes / No)	Directly or indirectly having the right to appoint a majority of the board of the directors or an equivalent governing body of the Proposer (Yes / No)
---	--	---	---

[include full name (last, middle, first), nationality, country of residence]			
--	--	--	--

OR

- (ii) We declare that there is no Beneficial Owner meeting one or more of the following conditions:
 - directly or indirectly holding 25% or more of the shares
 - directly or indirectly holding 25% or more of the voting rights
 - directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Proposer

OR

- (iii) We declare that we are unable to identify any Beneficial Owner meeting one or more of the following conditions. [If this option is selected, the Proposer shall provide explanation on why it is unable to identify any Beneficial Owner]
 - directly or indirectly holding 25% or more of the shares
 - directly or indirectly holding 25% or more of the voting rights
 - directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Proposer]"

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

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

Title of the person signing the Proposal: [insert complete title of the person signing the Proposal]
Signature of the person named above:
Date signed [insert ordinal number] day of [insert month], [insert year]

^{*} In the case of the Proposal submitted by a Joint Venture specify the name of the Joint Venture as Proposer. In the event that the Proposer is a joint venture, each reference to "Proposer" in the Beneficial Ownership Disclosure Form (including this Introduction thereto) shall be read to refer to the joint venture member.

^{**} Person signing the Proposal shall have the power of attorney given by the Proposer. The power of attorney shall be attached with the Proposal Schedules.

LETTER OF ACCEPTANCE

Purchaser: [insert the name of the Purchaser]

Project: [insert name of project]

Country: [insert country where RFP is issued]

Loan No. /Credit No. / Grant No.: [insert reference number for loan/credit/grant]

RFP No: [insert RFP reference number from Procurement Plan]

Date: [insert Date]

To: [insert Name of Proposer]

This is to notify you that your Proposal dated [insert Date] for execution of the [insert brief description of the Information System] for the Contract Price in the aggregate of [insert amount in figures] ([insert amount in words]), as corrected and modified in accordance with the Instructions to Proposers is hereby accepted by our Agency.

You are requested to furnish (i) the Performance Security within 28 days in accordance with the Conditions of Contract, using for that purpose one of the Performance Security Forms and (ii) the additional information on beneficial ownership in accordance with ITP 47.1 within eight (8) Business days using the Beneficial Ownership Disclosure Form, included in Section X, - Contract Forms, of the request for proposals document.

Authorized Signature:		

Name and Title of Signatory: [insert Name and Title]

Name of Agency: [insert Purchaser Name]

Attachment: Contract Agreement

1. CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT is made

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

BETWEEN

- [insert: Name of Purchaser], a [insert: description of type of legal entity, for example, an agency of the Ministry of . . .] of the Government of [insert: country of Purchaser], or corporation incorporated under the laws of [insert: country of Purchaser] and having its principal place of business at [insert: address of Purchaser] (hereinafter called "the Purchaser"), and
- (2) [insert: name of Supplier], a corporation incorporated under the laws of [insert: country of Supplier] and having its principal place of business at [insert: address of Supplier] (hereinafter called "the Supplier").

WHEREAS the Purchaser desires to engage the Supplier to supply, install, achieve Operational Acceptance of, and support the following Information System [insert: brief description of the Information System] ("the System"), and the Supplier has agreed to such engagement upon and subject to the terms and conditions appearing below in this Contract Agreement.

NOW IT IS HEREBY AGREED as follows:

Article 1.

1.1 Contract Documents (Reference GCC Clause 1.1 (a) (ii))

Contract Documents

The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:

- (a) This Contract Agreement and the Appendices attached to the Contract Agreement
- (b) Special Conditions of Contract
- (c) General Conditions of Contract
- (d) Technical Requirements (including Implementation Schedule)
- (e) The Supplier's proposal and original Price Schedules
- (f) Code of Conduct for Supplier's Personnel

(g) [Add here: any other documents]

1.2 Order of Precedence (Reference GCC Clause 2)

In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Contract Documents are listed in Article 1.1 (Contract Documents) above, provided that Appendix 7 shall prevail over all provisions of the Contract Agreement and the other Appendices attached to the Contract Agreement and all the other Contract Documents listed in Article 1.1 above.

1.3 Definitions (Reference GCC Clause 1)

Capitalized words and phrases used in this Contract Agreement shall have the same meanings as are ascribed to them in the General Conditions of Contract.

2.1 Contract Price (Reference GCC Clause 1.1(a)(viii) and GCC Clause 11)

The Purchaser hereby agrees to pay to the Supplier the Contract Price in consideration of the performance by the Supplier of its obligations under the Contract. The Contract Price shall be the aggregate of: [insert: amount of foreign currency A in words], [insert: amount in figures], plus [insert: amount of foreign currency B in words], [insert: amount in figures], plus [insert: amount in figures], [insert: amount in figures], [insert: amount in figures], [insert: amount in figures], as specified in the Grand Summary Price Schedule.

The Contract Price shall be understood to reflect the terms and conditions used in the specification of prices in the detailed price schedules, including the terms and conditions of the associated Incoterms, and the taxes, duties and related levies if and as identified.

3.1 Effective Date (Reference GCC Clause 1.1 (e) (ix))

The time allowed for supply, installation, and achieving Operational Acceptance of the System shall be determined from the date when all of the following conditions have been fulfilled:

- (a) This Contract Agreement has been duly executed for and on behalf of the Purchaser and the Supplier;
- (b) The Supplier has submitted to the Purchaser the performance security and the advance payment security, in accordance with GCC Clause 13.2 and GCC Clause 13.3;
- (c) The Purchaser has paid the Supplier the advance payment, in accordance with GCC Clause 12;

Article 2.

Contract Price and Terms of Payment

Article 3.

Effective Date for Determining Time for Operational Acceptance Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.

3.2 If the conditions listed under 3.1 are not fulfilled within two (2) months from the date of this Contract Agreement because of reasons not attributable to the Supplier, the parties shall discuss and agree on an equitable adjustment to the Contract Price and the Time for Achieving Operational Acceptance and/or other relevant conditions of the Contract.

Article 4.

4.1 The Appendixes listed below shall be deemed to form an integral part of this Contract Agreement.

Appendixes

4.2 Reference in the Contract to any Appendix shall mean the Appendixes listed below and attached to this Contract Agreement, and the Contract shall be read and construed accordingly.

APPENDIXES

Appendix 1. Supplier's Representative

Appendix 2. Adjudicator [if there is no Adjudicator, state "not applicable"]

Appendix 3. List of Approved Subcontractors

Appendix 4. Categories of Software

Appendix 5. Custom Materials

Appendix 6. Revised Price Schedules (if any)

Appendix 7. Minutes of Contract Finalization Discussions and Agreed-to Contract Amendments

IN WITNESS WHEREOF the Purchaser and the Supplier have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

For and on behalf of the Purchaser

Signed:

in the capacity of [insert: title or other appropriate designation]

in the presence of

For and on behalf of the Supplier

```
Signed:
```

```
in the capacity of [ insert: title or other appropriate designation ]
```

in the presence of

CONTRACT AGREEMENT

```
dated the [insert: number] day of [insert: month], [insert: year]
```

BETWEEN

```
[ insert: name of Purchaser ], "the Purchaser"
```

and

[insert: name of Supplier], "the Supplier"

Appendix 1. Supplier's Representative

In accordance with GCC Clause 1.1 (b) (iv), the Supplier's Representative is:

Name: [insert: name and provide title and address further below, or state "to be nominated within fourteen (14) days of the Effective Date"]

Title: [if appropriate, insert: title]

In accordance with GCC Clause 4.3, the Supplier's addresses for notices under the Contract are:

Address of the Supplier's Representative: [as appropriate, insert: personal delivery, postal, cable, facsimile, electronic mail, and/or EDI addresses.]

Fallback address of the Supplier: [as appropriate, insert: personal delivery, postal, cable, facsimile, electronic mail, and/or EDI addresses.]

Appendix 2. Adjudicator

In accordance with GCC Clause 1.1 (b) (vi), the agreed-upon Adjudicator is:

```
Name: [insert: name]
Title: [insert: title]
Address: [insert: postal address]
Telephone: [insert: telephone]
```

In accordance with GCC Clause 43.1.3, the agreed-upon fees and reimbursable expenses are:

```
Hourly Fees: [ insert: hourly fees ]
Reimbursable Expenses: [ list: reimbursables ]
```

Pursuant to GCC Clause 43.1.4, if at the time of Contract signing, agreement has not been reached between the Purchaser and the Supplier, an Adjudicator will be appointed by the Appointing Authority named in the SCC.

Appendix 3. List of Approved Subcontractors

The Purchaser has approved use of the following Subcontractors nominated by the Supplier for carrying out the item or component of the System indicated. Where more than one Subcontractor is listed, the Supplier is free to choose between them, but it must notify the Purchaser of its choice sufficiently in advance of the time when the subcontracted work needs to commence to give the Purchaser reasonable time for review. In accordance with GCC Clause 20.1, the Supplier is free to submit proposals for Subcontractors for additional items from time to time. No subcontracts shall be placed with any such Subcontractors for additional items until the Subcontractors have been approved in writing by the Purchaser and their names have been added to this list of Approved Subcontractors, subject to GCC Clause 20.3.

[specify: item, approved Subcontractors, and their place of registration that the Supplier proposed in the corresponding attachment to its proposal and that the Purchaser approves that the Supplier engage during the performance of the Contract. Add additional pages as necessary.]

Item	Approved Subcontractors	Place of Registration

Appendix 4. Categories of Software

The following table assigns each item of Software supplied and installed under the Contract to one of the three categories: (i) System Software, (ii) General-Purpose Software, or (iii) Application Software; and to one of the two categories: (i) Standard Software or (ii) Custom Software and to one of the two categories: (i) Proprietary or (ii) Open Source.

	(select one per title)		(select one per title)		(select one per title)		
Title	System	General- Purpose	Application	Standard	Custom	Proprietary	Open Source
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							

Appendix 5. Custom Materials

The follow table specifies the Custom Materials the Supplier will provide under the Contract.

Custom Materials		
[insert Title and description]		

Appendix 6. Revised Price Schedules

The attached Revised Price Schedules (if any) shall form part of this Contract Agreement and, where differences exist, shall supersede the Price Schedules contained in the Supplier's Proposal. These Revised Price Schedules reflect any corrections or adjustments to the Supplier's proposal price, pursuant to the ITP Clauses 30.3 and 38.2.

Appendix 7. Minutes of Contract Finalization Discussions and Agreed-to Contract Amendments

The attached Contract amendments (if any) shall form part of this Contract Agreement and, where differences exist, shall supersede the relevant clauses in the GCC, SCC, Technical Requirements, or other parts of this Contract as defined in GCC Clause 1.1 (a) (ii).

2. PERFORMANCE AND ADVANCE PAYMENT SECURITY FORMS

2.1 Performance Security Form (Bank Guarantee) (Bank Guarantee)

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

[Guarantor letterhead or SWIFT identifier code]

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

Beneficiary: [insert: Name and Address of Purchaser]

Date: [insert: date]

PERFORMANCE GUARANTEE No.: [insert: Performance Guarantee Number]

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

We have been informed that on [insert: date of award] you awarded Contract No. [insert: Contract number] for [insert: title and/or brief description of the Contract] (hereinafter called "the Contract") to [insert: complete name of Supplier which in the case of a joint venture shall be in the name of the joint venture] (hereinafter called "the Applicant"). Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

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

On the date of your issuing, to the Supplier, the Operational Acceptance Certificate for the System, the value of this guarantee will be reduced to any sum(s) not exceeding [insert: amount(s)¹ in figures and words]. This remaining guarantee shall expire no later than [insert: number and select: of months/of years (of the Warranty Period that needs to be covered by the remaining

The bank shall insert the amount(s) specified and denominated in the SCC for GCC Clauses 13.3.1 and 13.3.4 respectively, either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Purchaser.

guarantee)] from the date of the Operational Acceptance Certificate for the System,¹ and any demand for payment under it must be received by us at this office on or before that date.

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

[Signature(s)]

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

In this sample form, the formulation of this paragraph reflects the usual SCC provisions for GCC Clause 13.3. However, if the SCC for GCC Clauses 13.3.1 and 13.3.4 varies from the usual provisions, the paragraph, and possibly the previous paragraph, need to be adjusted to precisely reflect the provisions specified in the SCC.

2.2 Advance Payment Security Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: [insert: Name and Address of Purchaser]

Date: [insert date of issue]

ADVANCE PAYMENT GUARANTEE No.: [insert: Advance Payment Guarantee Number]

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

We have been informed that on [insert: date of award] you awarded Contract No. [insert: Contract number] for [insert: title and/or brief description of the Contract] (hereinafter called "the Contract") to [insert: complete name of Supplier, which in the case of a joint venture shall be the name of the joint venture] (hereinafter called "the Applicant").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum of [insert: amount in numbers and words, for each currency of the advance payment] is to be made to the Supplier against an advance payment guarantee.

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

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

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

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

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

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

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

[signature(s)]

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

3. INSTALLATION AND ACCEPTANCE CERTIFICATES

3. Installation and Acceptance Certificates

3.1 Installation Certificate

Date: [insert: date]

Loan/Credit Number: [insert: loan or credit number from RFP]

RFP: [insert: title and number of RFP]

Contract: [insert: name and number of Contract]

To: [insert: name and address of Supplier]

Dear Sir or Madam:

Pursuant to GCC Clause 26 (Installation of the System) of the Contract entered into between yourselves and the [insert: name of Purchaser] (hereinafter the "Purchaser") dated [insert: date of Contract], relating to the [insert: brief description of the Information System], we hereby notify you that the System (or a Subsystem or major component thereof) was deemed to have been correctly installed on the date specified below.

- 1. Description of the System (or relevant Subsystem or major component: [insert: description]
- 2. Date of Installation: [insert: date]

Notwithstanding the above, you are required to complete the outstanding items listed in the attachment to this certificate as soon as practicable. This letter shall not relieve you of your obligation to achieve Operational Acceptance of the System in accordance with the Contract nor of your obligations during the Warranty Period.

For and on behalf of the Purchaser

Signed:

Date:

in the capacity of: [state: "Project Manager" or specify a higher level authority in the Purchaser's organization]

3.2 Operational Acceptance Certificate

Date: [insert: date]

Loan/Credit Number: [insert: loan or credit number from RFP]

RFP: [insert: title and number of RFP]

Contract: [insert: name of System or Subsystem and number of

Contract]

To: [insert: name and address of Supplier]

Dear Sir or Madam:

Pursuant to GCC Clause 27 (Commissioning and Operational Acceptance) of the Contract entered into between yourselves and the [insert: name of Purchaser] (hereinafter the "Purchaser") dated [insert: date of Contract], relating to the [insert: brief description of the Information System], we hereby notify you the System (or the Subsystem or major component identified below) successfully completed the Operational Acceptance Tests specified in the Contract. In accordance with the terms of the Contract, the Purchaser hereby takes over the System (or the Subsystem or major component identified below), together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

- 1. Description of the System (or Subsystem or major component): [insert: description]
- 2. Date of Operational Acceptance: [insert: date]

This letter shall not relieve you of your remaining performance obligations under the Contract nor of your obligations during the Warranty Period.

For and on behalf of the Purchaser

Signed:		
Date: [insert: date]		
in the capacity of: [state: Purchaser's organization]	"Project Manager" or specify a higher l	evel authority in the

4. CHANGE ORDER PROCEDURES AND FORMS

Date: [insert: date]

Loan/Credit Number: [insert: loan or credit number from RFP]

RFP: [insert: title and number of RFP]

Contract: [insert: name or System or Subsystem and number of

Contract]

General

This section provides samples of procedures and forms for carrying out changes to the System during the performance of the Contract in accordance with GCC Clause 39 (Changes to the System) of the Contract.

Change Order Log

The Supplier shall keep an up-to-date Change Order Log to show the current status of Requests for Change and Change Orders authorized or pending. Changes shall be entered regularly in the Change Order Log to ensure that the log is kept up-to-date. The Supplier shall attach a copy of the current Change Order Log in the monthly progress report to be submitted to the Purchaser.

References to Changes

- (1) Request for Change Proposals (including Application for Change Proposals) shall be serially numbered CR-nnn.
- (2) Change Estimate Proposals shall be numbered CN-nnn.
- (3) Estimate Acceptances shall be numbered CA-nnn.
- (4) Change Proposals shall be numbered CP-nnn.
- (5) Change Orders shall be numbered CO-nnn.

On all forms, the numbering shall be determined by the original CR-nnn.

Annexes

- 4.1 Request for Change Proposal Form
- 4.2 Change Estimate Proposal Form
- 4.3 Estimate Acceptance Form
- 4.4 Change Proposal Form
- 4.5 Change Order Form
- 4.6 Application for Change Proposal Form

4.1 Request for Change Proposal Form

(Purchaser's Letterhead)

Date: [insert: date]

Loan/Credit Number: [insert: loan or credit number from RFP]

RFP: [insert: title and number of RFP]

Contract: [insert: name of System or Subsystem or number of

Contract]

To: [insert: name of Supplier and address]

Attention: [insert: name and title]

Dear Sir or Madam:

With reference to the above-referenced Contract, you are requested to prepare and submit a Change Proposal for the Change noted below in accordance with the following instructions within [insert: number] days of the date of this letter.

- 1. Title of Change: [insert: title]
- 2. Request for Change No./Rev.: [insert: number]
- 3. Originator of Change: [select Purchaser / Supplier (by Application for Change Proposal), and add: name of originator]
- 4. Brief Description of Change: [insert: description]
- 5. System (or Subsystem or major component affected by requested Change): [insert: description]
- 6. Technical documents and/or drawings for the request of Change:

Document or Drawing No.

Description

- 7. Detailed conditions or special requirements of the requested Change: [insert: description]
- 8. Procedures to be followed:
 - (a) Your Change Proposal will have to show what effect the requested Change will have on the Contract Price.
 - (b) Your Change Proposal shall explain the time it will take to complete the requested Change and the impact, if any, it will have on the date when Operational Acceptance of the entire System agreed in the Contract.

(c) If you believe implementation of the requested Change will have a negative impact on the quality, operability, or integrity of the System, please provide a detailed explanation, including other approaches that might achieve the same impact as the requested Change.

- (d) You should also indicate what impact the Change will have on the number and mix of staff needed by the Supplier to perform the Contract.
- (e) You shall not proceed with the execution of work related to the requested Change until we have accepted and confirmed the impact it will have on the Contract Price and the Implementation Schedule in writing.
- 9. As next step, please respond using the Change Estimate Proposal form, indicating how much it will cost you to prepare a concrete Change Proposal that will describe the proposed approach for implementing the Change, all its elements, and will also address the points in paragraph 8 above pursuant to GCC Clause 39.2.1. Your Change Estimate Proposal should contain a first approximation of the proposed approach, and implications for schedule and cost, of the Change.

For and on behalf of the Purchaser

Signed:

Date:

in the capacity of: [state: "Project Manager" or specify a higher level authority in the Purchaser's organization]

4.2 Change Estimate Proposal Form

(Supplier's Letterhead)

Date: [insert: date]

Loan/Credit Number: [insert: loan or credit number from RFP]

RFP: [insert: title and number of RFP]

Contract: [insert: name of System or Subsystem and number of

Contract]

To: [insert: name of Purchaser and address]

Attention: [insert: name and title]

Dear Sir or Madam:

With reference to your Request for Change Proposal, we are pleased to notify you of the approximate cost of preparing the below-referenced Change in accordance with GCC Clause 39.2.1 of the Contract. We acknowledge that your agreement to the cost of preparing the Change Proposal, in accordance with GCC Clause 39.2.2, is required before we proceed to prepare the actual Change Proposal including a detailed estimate of the cost of implementing the Change itself.

- 1. Title of Change: [insert: title]
- 2. Request for Change No./Rev.: [insert: number]
- 3. Brief Description of Change (including proposed implementation approach): [insert: description]
- 4. Schedule Impact of Change (initial estimate): [insert: description]
- 5. Initial Cost Estimate for Implementing the Change: [insert: initial cost estimate]
- 6. Cost for Preparation of Change Proposal: [insert: cost in the currencies of the Contract], as detailed below in the breakdown of prices, rates, and quantities.

For and on behalf of the Supplier

Signed:

Date:

in the capacity of: [state: "Supplier's Representative" or specify a other higher level authority in the Supplier's organization]

4.3 Estimate Acceptance Form

(Purchaser's Letterhead)

Date: [insert: date]

Loan/Credit Number: [insert: loan or credit number from RFP]

RFP: [insert: title and number of RFP]

Contract: [insert: name of System or Subsystem and number of

Contract]

To: [insert: name of Supplier and address]

Attention: [insert: name and title]

Dear Sir or Madam:

We hereby accept your Change Estimate and agree that you should proceed with the preparation of a formal Change Proposal.

- 1. Title of Change: [insert: title]
- 2. Request for Change No./Rev.: [insert: request number / revision]
- 3. Change Estimate Proposal No./Rev.: [insert: proposal number / revision]
- 4. Estimate Acceptance No./Rev.: [insert: estimate number / revision]
- 5. Brief Description of Change: [insert: description]
- 6. Other Terms and Conditions: [insert: other terms and conditions]

In the event that we decide not to order the Change referenced above, you shall be entitled to compensation for the cost of preparing the Change Proposal up to the amount estimated for this purpose in the Change Estimate Proposal, in accordance with GCC Clause 39 of the General Conditions of Contract.

For and on behalf of the Purchaser

Signed:

Date:

in the capacity of: [state: "Project Manager" or specify a higher level authority in the Purchaser's organization]

4.4 Change Proposal Form

(Supplier's Letterhead)

Date: [insert: date]

Loan/Credit Number: [insert: loan or credit number from RFP]

RFP: [insert: title and number of RFP]

Contract: [insert: name of System or Subsystem and number of

Contract]

To: [insert: name of Purchaser and address]

Attention: [insert: name and title]

Dear Sir or Madam:

In response to your Request for Change Proposal No. [insert: number], we hereby submit our proposal as follows:

- 1. Title of Change: [insert: name]
- 2. Change Proposal No./Rev.: [insert: proposal number/revision]
- 3. Originator of Change: [select: Purchaser | Supplier; and add: name]
- 4. Brief Description of Change: [insert: description]
- 5. Reasons for Change: [insert: reason]
- 6. The System Subsystem, major component, or equipment that will be affected by the requested Change: [insert: description]
- 7. Technical documents and/or drawings for the requested Change:
 - Document or Drawing No. Description
- 8. Estimate of the increase/decrease to the Contract Price resulting from the proposed Change: [insert: amount in currencies of Contract], as detailed below in the breakdown of prices, rates, and quantities.

Total lump sum cost of the Change:

Cost to prepare this Change Proposal (i.e., the amount payable if the Change is not accepted, limited as provided by GCC Clause 39.2.6):

9. Additional Time for Achieving Operational Acceptance required due to the Change: [insert: amount in days / weeks]

- 10. Effect on the Functional Guarantees: [insert: description]
- 11. Effect on the other terms and conditions of the Contract: [insert: description]
- 12. Validity of this Proposal: for a period of [insert: number] days after receipt of this Proposal by the Purchaser
- 13. Procedures to be followed:
 - (a) You are requested to notify us of your acceptance, comments, or rejection of this detailed Change Proposal within [insert: number] days from your receipt of this Proposal.
 - (b) The amount of any increase and/or decrease shall be taken into account in the adjustment of the Contract Price.

For and on behalf of the Supplier

Signed:

Date:

in the capacity of: [state: "Supplier's Representative" or specify a other higher level authority in the Supplier's organization]

4.5 Change Order Form

(Purchaser's Letterhead)

	Date: [insert: date]	
	Loan/Credit Number: [insert: loan or credit number from RFP]	
	RFP: [insert: title and number of RFP]	
	Contract: [insert: name of System or Subsystem and number of Contract]	
То:	[insert: name of Supplier and address]	
Atte	ention: [insert: name and title]	
Dea	r Sir or Madam:	
	We hereby approve the Change Order for the work specified in Change Proposal No. [insert: nber], and agree to adjust the Contract Price, Time for Completion, and/or other conditions of Contract in accordance with GCC Clause 39 of the Contract.	
1.	Title of Change: [insert: name]	
2.	Request for Change No./Rev.: [insert: request number / revision]	
3.	Change Order No./Rev.: [insert: order number / revision]	
4.	Originator of Change: [select: Purchaser / Supplier; and add: name]	
5.	Authorized Price for the Change:	
	Ref. No.: [insert: number] Date: [insert: date]	
	[insert: amount in foreign currency A] plus [insert: amount in foreign currency B] plus [insert: amount in foreign currency C] plus [insert: amount in local currency]	
6.	Adjustment of Time for Achieving Operational Acceptance: [insert: amount and description of adjustment]	
7.	Other effects, if any: [state: "none" or insert description]	
For	and on behalf of the Purchaser	
Sign	ned:	
Date	e: [insert date]	
	he capacity of: [state: "Project Manager" or higher level authority in the Purchaser's anization]	

For and on behalf of the Su	pplier
Signed:	
Date: [insert date]	
in the capacity of: [state Supplier's organization]	"Supplier's Representative" or specify a higher level authority in the

4.6 Application for Change Proposal Form

(Supplier's Letterhead)

Date: [insert: date]

Loan/Credit Number: [insert: loan or credit number from RFP]

RFP: [insert: title and number of RFP]

Contract: [insert: name of System or Subsystem and number of

Contract]

To: [insert: name of Purchaser and address]

Attention: [insert: name and title]

Dear Sir or Madam:

We hereby propose that the below-mentioned work be treated as a Change to the System.

- 1. Title of Change: [insert: name]
- 2. Application for Change Proposal No./Rev.: [insert: number / revision] dated: [insert: date]
- 3. Brief Description of Change: [insert: description]
- 4. Reasons for Change: [insert: description]
- 5. Order of Magnitude Estimation: [insert: amount in currencies of the Contract]
- 6. Schedule Impact of Change: [insert: description]
- 7. Effect on Functional Guarantees, if any: [insert: description]
- 8. Appendix: [insert: titles (if any); otherwise state "none"]

For and on behalf of the Supplier

Signed:

Date:

in the capacity of: [state: "Supplier's Representative" or specify a higher level authority in the Supplier's organization]