



KENYA SUGAR RESEARCH AND TRAINING INSTITUTE

Off Kisumu - Miwani Road; P. O. Box 44-40100 Kisumu; Tel: 020 2047307 | 0735 339 912

TENDER FOR ESTABLISHMENT, COMMISSIONING AND SUPPORT OF ERP SYSTEM AND RELATED SOFTWARE; SUPPLY, DELIVERY AND INSTALLATION OF ANCILLARY ICT HARDWARE

1) NAME AND CONTACT ADDRESSES OF PROCURING ENTITY

Name: **Kenya Sugar Research and Training Institute**

Address: **P. O. Box 44 – 40100, Kisumu**

Email **director@kesreti.org**

address:

2) Invitation to Tender (ITT) No.:

[KESRETI/OT/008/2025-26](#)

3) Tender Name:

Tender for Establishment, Commissioning and Support of ERP System and Related Software; Supply, Delivery and Installation of Ancillary ICT Hardware

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INVITATION TO TENDER (ITT)

Section	Invitation to Tender (ITT) Details
Procuring Entity:	Kenya Sugar Research and Training Institute (KESRETI), Kibos, along Kisumu – Miwani Road, Kisumu, P. O. Box 44 – 40100, Tel 0735339912
Tender Description:	Tender for Establishment, Commissioning and Support of ERP System and Related Software; Supply and Delivery of Ancillary ICT Hardware as per defined lots (see 2.2 below).
1. Scope:	The ERP system will be a phased multi-year deployment undertaken at KESRETI Head office. The ERP will entail both native and third-party integrated systems as determined by the Bidder. All the software and ancillary hardware will be delivered and installed at the Head office. Technical support will be in 3-year contracts renewable annually.
2. Eligibility:	Open to all qualified tenderers eligible under Kenyan law. Bidders must be registered/ authorized by relevant regulatory authorities and respective OEMs (or their authorized agents) for supply, installation and maintenance of respective ICT systems.
2.1. Reservation:	LOT nine (9) and LOT ten (10) of this tender are reserved for youth, women and persons living with disability, AGPO certificate will be required.
2.2. Lots:	<p>Tender consists of ten (10) lots:</p> <ol style="list-style-type: none"> 1. Analysis, Design, Development, Installation, Commissioning and Support of ERP System 2. Supply, Delivery, Installation, Commissioning and Support of SQL Server Software 3. Supply, Delivery, Installation, Commissioning and Support of GIS Software 4. Supply, Delivery, Installation, Commissioning and Support of Computer Aided Design (CAD) Software 5. Supply, Delivery, Installation, Commissioning and Support of Statistical Analysis Software 6. Supply, Delivery, Installation, Commissioning and Support of Photo and Video Editing Software 7. Supply, Delivery, Installation, Commissioning and Support of Photo and Video Editing Software 8. Supply, Delivery, Installation, Commissioning and Support of GPU & PSU for Dell PE R770 9. Supply and Delivery of Windows Client OS Software 10. Supply and Delivery of Office Productivity Software <p>✓ Technical support will be in-built for the warranty period or in a 3-year contract renewable annually.</p>
2.3. Multiple Contracts:	Multi-awards are applicable.
3. Enquiries:	Qualified and interested tenderers may obtain further information and inspect the Tender Documents during office hours [0800 to 1700 hours] at the address provided.
4. Hard copies of tender documents:	Hard copies of tender documents will be provided upon payment of 1000/=Kenya Shillings non refundable in cash or Banker's Cheque and payable to the address given below
5. Soft copies of tender documents:	Soft copies of the tender are available for free download from KESRETI website (https://www.kesreti.org/kesreti-tender-documents-download-page/) or Public Procurement Information Portal (https://www.tenders.go.ke/). Those who download the tender document should submit their details to

Section	Invitation to Tender (ITT) Details
	tenders.kesreti.org to receive any clarifications or addendums. Requests for clarification must be received at least 3 days before the closing date.
6. Tender security:	Tender security must be provided for all the Lots as follows: LOT1 (300,000/=); LOT2 (10,000/=); LOT3 (32,000/=); LOT4 (10,000/=); LOT5 (30,000/=); LOT6 (5,200/=); LOT7 (4,000/=); LOT9 (N/A); LOT10 (N/A). LOT nine (9) and ten (10) will require tender securing declaration to be dully filled as provided in the tender document
7. Tender document serialization:	The Tenderer shall chronologically serialize/ paginate all pages of the tender documents submitted.
8. Tender Submission:	Tender must be submitted in plain sealed envelopes marked with tender number and lot number(s) to: Tender Box, KESRETI Offices, Kibos, Kisumu. Deadline: May 27, 2026, at 11:00 AM East African Time. No electronic submissions. Late tenders will be rejected.
9. Tender Opening:	Tenders will be opened immediately after the deadline date and time specified above or any deadline date and time specified later. Tenders will be publicly opened in the presence of the Tenderers' designated representatives who choose to attend at KESRETI Boardroom, Kibos, Kisumu.
10. Additional Notes:	Late tenders will be rejected. KESRETI reserves the right to accept or reject any tender without giving reasons. All costs of tender preparation are borne by the bidder.
11. Addresses:	The addresses referred to above are as follows:

A. Address for obtaining further information and for purchasing tender documents

1) Name of Procuring Entity:	Kenya Sugar Research and Training Institute (KESRETI)
2) Physical address:	Kibos, Along Kisumu – Miwani Road
3) Postal Address:	P. O. Box 44 – 40100, Kisumu
4) Contact Officer:	tenders@kesreti.org

B. Address for Submission of Tenders.

1) Name of Procuring Entity:	Kenya Sugar Research and Training Institute (KESRETI)
2) Postal Address:	Attn: CEO; P. O. Box 44 – 40100, Kisumu
3) Physical address:	Kibos, Along Kisumu – Miwani Road

C. Address for Opening of Tenders.

1) Name of Procuring Entity:	Kenya Sugar Research and Training Institute (KESRETI)
2) Physical address:	Kibos, Along Kisumu – Miwani Road

[Authorized Official (name, designation, Signature and date)]

Name:	CEO (Official of KESRETI issuing the invitation)
Designation:	Ag. CEO
Signature:	
Date:	

PART 1 - TENDERING PROCEDURES

SECTION I - INSTRUCTIONS TO TENDERERS (ITT)

Section I - Instructions to Tenderers

A. GENERAL

1. **Scope of Tender**

- 1.1 The Procuring Entity, as indicated **in the TDS**, issues this tendering document for the supply and installation of the Information System as specified in Section V, Procuring Entity's Requirements. The name, identification and number of lots (contracts) of this ITT are specified **in the TDS**.

2. **Definitions**

- 2.1 Unless otherwise stated, throughout this tendering document definitions and interpretations shall be as prescribed in the Section VI, General Conditions of Contract.
- 2.3 Throughout this tendering document:
- a) The term “in writing” means communicated in written form (such as by mail, e-mail, fax, including if specified in the **TDS**, distributed or received through the electronic-procurement system used by the Procuring Entity) 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 Procuring Entity. It excludes the Procuring Entity's official public holidays.
 - d) “Information System” shall carry the same meaning as “Information Technology”.

3. **Fraud and Corruption**

- 3.1 The Procuring Entity requires compliance with the provisions of the Public Procurement and Asset Disposal Act, 2015, Section 62 “Declaration not to engage in corruption”. The tender submitted by a person shall include a declaration that the person shall not engage in any corrupt or fraudulent practice and a declaration that the person or his or her sub-contractors are not debarred from participating in public procurement proceedings.
- 3.2 The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding collusive practices in contracting. Any tenderer found to have engaged in collusive conduct shall be disqualified and criminal and/ or civil sanctions may be imposed. To this effect, Tenderers shall be required to complete and sign the “Certificate of Independent Tender Determination” annexed to the Form of Tender.
- 3.3 Unfair Competitive Advantage -Fairness and transparency in the tender process require that the Firms or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to this tender. The Procuring Entity shall indicate in the TDS firms (if any) that provided consulting services for the contract being tendered for. The Procuring Entity shall check whether the owners or controllers of the Tenderer are same as those that provided consulting services. The Procuring Entity shall, upon request, make available to any tenderer information that would give such firm unfair competitive advantage over competing firms.
- 3.4 Tenderers shall permit and shall cause their agents (whether declared or not), subcontractors, sub-consultants, service providers, suppliers, and their personnel, to permit the Procuring Entity to inspect all accounts, records and other documents relating to any initial selection process, pre-qualification process, tender submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Procuring Entity.

4. **Eligible Tenderers**

- 4.1 A Tenderer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITT 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 in to such an agreement supported by a Form of Intent. Public employees and their close relatives (*spouses, children, brothers, sisters and uncles and aunts*) are not eligible to participate in the tender. 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 Tendering process and, in the event the JV is awarded the contract, during contract execution. Members of a joint venture may not also make an individual tender, be a subcontractor in a separate tender or be part of another joint venture for the purposes of the same Tender. The maximum number of JV members shall be specified in the **TDS**.

- 4.2 Public Officers of the Procuring Entity, their Spouses, Child, Parent, Brothers or Sister. Child, Parent, Brother or Sister of a Spouse, their business associates or agents and firms / organizations in which they have a substantial or controlling interest shall not be eligible to tender or be awarded a contract. Public Officers are also not allowed to participate in any procurement proceedings.
- 4.3 A Tenderer shall not have a conflict of interest. Any Tenderer found to have a conflict of interest shall be disqualified. A Tenderer may be considered to have a conflict of interest for the purpose of this Tendering process, if the Tenderer:
- a. Directly or indirectly controls, is controlled by or is under common control with another Tenderer; or
 - b. Receives or has received any direct or indirect subsidy from another Tenderer; or
 - c. Has the same legal representative as another Tenderer; or
 - d. Has a relationship with another Tenderer, directly or through common third parties, that puts it in a position to influence the Tender of another Tenderer, or influence the decisions of the Procuring Entity regarding this Tendering 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 Tender; or
 - f. Or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity or Procuring Entity 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 TDSITT2.1 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 Procuring Entity who: -
 - i. Are directly or indirectly involved in the preparation of the tendering document or specifications of the Contract, and/ or the Tender 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 Procuring Entity throughout the Tendering process and execution of the Contract.
- 4.4 A firm that is a Tenderer (either individually or as a JV member) shall not participate as a Tenderer or as JV member in more than one Tender except for permitted alternative Tenders. Such participation shall result in the disqualification of all Tenders in which the firm is involved. However, this does not limit the participation of a Tenderer as subcontractor in another Tender or of a firm as a subcontractor in more than one Tender.
- 4.5 A Tenderer may have the nationality of any country, subject to the restrictions pursuant to ITT4.9. A Tenderer shall be deemed to have the nationality of a country if the Tenderer 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 maybe. This criterion also shall apply to the determination of the nationality of proposed sub-contractors or sub- consultants for any part of the Contract including related Services.
- 4.6 A Tenderer that has been debarred from participating in public procurement shall be ineligible to tender or be awarded a contract. The list of debarred firms and individuals is available from the website of PPRA www.ppra.go.ke.
- 4.7 Tenderers that are state-owned enterprises or institutions in Kenya may be eligible to compete and be awarded a Contract(s) only if they can establish that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not under supervision of the Procuring Entity.
- 4.8 Firms and individuals may be ineligible if (a) as a matter of law or official regulations, Kenya 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, Kenya 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 The Procuring Entity may require tenderers to be registered with certain authorities in Kenya. Such registration shall be defined in the **TDS**, but care must be taken to ensure such registration requirement does not discourage competition, nor exclude competent tenderers. Registration shall not be a condition for tender, but where a selected tenderer is not so registered, the tenderer shall be given opportunity to register before signing of the contract.
- 4.10 Foreign tenderers are required to source at least forty (40%) percent of their contract inputs (in supplies, subcontracts and labor) from national suppliers and contractors. To this end, a foreign tenderer shall provide in its tender documentary evidence that this requirement is met. Foreign tenderers not meeting this criterion will be automatically disqualified. Information required to enable the Procuring Entity determine if this condition is met shall be provided in for this purpose is be provided in “SECTION III- EVALUATION AND QUALIFICATION CRITERIA, Item 9”.
- 4.11 Pursuant to the eligibility requirements of ITT 4.11, a tenderer is considered a foreign tenderer, if it is registered in Kenya, has less than 51 percent ownership by nationals of Kenya and if it does not subcontract foreign contractors more than 10 percent of the contract price, excluding provisional sums. JVs are considered as foreign tenderers if the individual member firms are registered in Kenya have less than 51 percent ownership by nationals of Kenya. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.
- 4.12 The Competition Act of Kenya requires that firms wishing to tender as Joint Venture undertakings which may prevent, distort or lessen competition in provision of services are prohibited unless they are exempt in accordance with the provisions of Section 25 of the Competition Act, 2010. JVs will be required to seek for exemption from the Competition Authority. Exemption shall not be a condition for tender, but it shall be a condition of contract award and signature. A JV tenderer shall be given opportunity to seek such exemption as a condition of award and signature of contract. Application for exemption from the Competition Authority of Kenya may be accessed from the website www.cak.go.ke
- 4.13 Tenderers shall be considered ineligible for procurement if they offer goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment.
- 4.14 A Kenyan tenderer shall be eligible to tender if it provides evidence of having fulfilled his/her tax obligations by producing a valid tax compliance certificate or tax exemption certificate issued by the Kenya Revenue Authority.

5 Eligible Goods and Services

- 5.1 The Information Systems to be supplied under the Contract may have their origin in any eligible country.
- 5.2 For the purposes of this tendering document, the term “Information System” means all:
- i. the required information technologies, including all information processing and communications-related hardware, software, supplies, and consumable items that the Supplier is required to supply and install under the Contract, plus all associated documentation, and all other materials and goods to be supplied, installed, integrated, and made operational; and
 - ii. 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 Tenderer and as specified in the Contract.
- 5.3 For purposes of ITT 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.
- 5.4 Any goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment shall not be eligible for procurement under this Act.

B. CONTENTS OF TENDERING DOCUMENT

6 Sections of Tendering Document

PART 1 - Tendering Procedures

Section I - Instructions to Tenderers (ITT)

Section II - Tender Data Sheet (TDS)

Section III - Evaluation and Qualification Criteria

Section IV - Tendering Forms

PART 2 - Procuring Entity's Requirements

Section V - Requirements of the Information Systems

Section VI - Technical Requirements

Section VII - Implementation Schedule

Section VIII - System Inventory Tables

Section IX - Background and Informational Materials

PART 3 - Contract

Section X - General Conditions of Contract

Section XII - Special Conditions of Contract

Section XIII - Contract Forms

- 6.1 The Invitation to Tender Notice issued by the Procuring Entity is not part of this tendering document.
- 6.2 Unless obtained directly from the Procuring Entity, the Procuring Entity is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre-Tender meeting (if any), or Addenda to the tendering document in accordance with ITT 10. In case of any contradiction, documents obtained directly from the Procuring Entity shall prevail.
- 6.3 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the tendering document and to furnish with its Tender all information or documentation as is required by the tendering document.

7 Site Visit

- 7.1 The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Required Services and its surroundings and obtain all information that may be necessary for preparing the Tender and entering in to a contract for the Services. The costs of visiting the Site shall be the Tenderer's own expense.

8 Pre-Tender Meeting and a pre-arranged pretender visit of the site of the works

- 8.1 The Procuring Entity shall specify in the **TDS** if a pre-tender conference will be held, when and where. The Procuring Entity shall also specify in the **TDS** if a pre-arranged pretender visit of the site of the works will be held and when. The Tenderer's designated representative is invited to attend a pre-arranged pretender visit of the site of the works. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 8.2 The Tenderer is requested to submit any questions in writing, to reach the Procuring Entity not later than the period specified in the **TDS** before the meeting.
- 8.3 Minutes of the pre-Tender meeting and the pre-arranged pre-tender visit of the site of the works, if applicable, including the text of the questions asked by Tenderers and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Tenderers who have acquired the Tender Documents in accordance with ITT 6.3. Minutes shall not identify the source of the questions asked.
- 8.4 The Procuring Entity shall also promptly publish anonymized (*no names*) Minutes of the pre-Tender meeting and the pre-arranged pre-tender visit of the site of the works at the web page identified **in the TDS**. Any modification to the Tender Documents that may become necessary as a result of the pre-Tender meeting shall be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT 10 and not through the minutes of the pre-Tender meeting. Nonattendance at the pre-Tender meeting will not be a cause for disqualification of a Tenderer.

9 Clarification of Tender Documents

- 9.1 A Tenderer requiring any clarification of the Tender Document shall contact the Procuring Entity in writing at the Procuring Entity's address specified in the TDS or raise its enquiries during the pre-Tender meeting and the pre- arranged pretender visit of the site of the works if provided for in accordance with ITT 8.4. The Procuring Entity will respond in writing to any request for clarification, provided that such request is received no later than the period specified in the TDS prior to the deadline for submission of tenders. The Procuring Entity shall forward copies of its response to all tenderers who have acquired the Tender Documents in accordance with ITT 6.3, including a description of the inquiry but without identifying its source. If so specified in the **TDS**, the Procuring Entity shall also promptly publish its response at the web page identified in the **TDS**. Should the clarification resulting changes to the essential elements of the Tender Documents, the Procuring Entity shall amend the Tender Documents appropriately following the procedure under ITT 10.

10 Amendment of Tendering Document

- 10.1 At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the Tendering document by issuing addenda.
- 10.2 Any addendum issued shall be part of the tendering document and shall be communicated in writing to all who have obtained the tendering document from the Procuring Entity in accordance with ITT 6.3. The Procuring Entity shall also promptly publish the addendum on the Procuring Entity's webpage in accordance with ITT 8.1.
- 10.3 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Procuring Entity shall extend, as necessary, the deadline for submission of Tenders, in accordance with ITT 24.2 below.

C. PREPARATION OF TENDERS

11 Cost of Tendering

- 11.1 The Tenderer shall bear all costs associated with the preparation and submission of its Tender, and the Procuring Entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.

12 Language of Tender

- 12.1 The Tender, as well as all correspondence and documents relating to the tender exchanged by the Tenderer and the Procuring Entity, shall be written in the English language. Supporting documents and printed literature that are part of the Tender may be in another language provided they are accompanied by an accurate translation of the relevant passages in the English language, in which case, for purposes of interpretation of the Tender, such translation shall govern.

13 Documents Comprising the Tender

- 13.1 The Tender submitted by the Tenderer shall comprise the following:
- a. **Form of Tender** prepared in accordance with ITT 14;
 - b. **Price Schedules** completed in accordance with ITT 14 and ITT 16;
 - c. **Tender Security or Tender-Securing Declaration** in accordance with ITT 22;
 - d. **Alternative Tender:** if permissible, in accordance with ITT 15;
 - e. **Authorization:** written confirmation authorizing the signatory of the Tender to commit the Tenderer, in accordance with ITT 23.3;
 - f. **Eligibility of Information System:** documentary evidence established in accordance with ITT 16.1 that the Information System offered by the Tenderer in its Tender or in any alternative Tender, if permitted, are eligible;
 - g. **Tenderer's Eligibility:** documentary evidence in accordance with ITT 17 establishing the Tenderer's eligibility and qualifications to fulfil the contract if its Tender is accepted;
 - h. **Conformity:** documentary evidence established in accordance with ITT 18 that the Information System offered by the Tenderer conforms to the tendering document;
 - i. **Subcontractors:** list of subcontractors, in accordance with ITT 18.4;
 - j. **Intellectual Property:** a list of: Intellectual Property as defined in GCC Clause 15;
 - i) All Software included in the Tender, 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;
- iii. All Custom Materials, as defined in GCC Clause 1.1(c), included in the Tender;
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

k. Any other document required **in the TDS**.

13.2 In addition to the requirements under ITT 13.1, Tenders submitted by a JV shall include 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 Form of intent to execute a Joint Venture Agreement in the information System to be executed by the respective members.

13.1 The Tenderer shall furnish in the Form of Tender information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Tender. The Tenderer shall serialize page so fall tender documents submitted.

14 Form of Tender and Price Schedules

14.1 The Tenderer shall complete the Form of Tender, including the appropriate Price Schedules, using the relevant forms furnished in Section IV, Tendering Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITT 21.3. All blank spaces shall be filled in with the information requested. The Tenderer shall chronologically serialize all pages of the tender documents submitted.

15 Alternative Tenders

15.1 The TDS indicates whether alternative Tenders are allowed. If they are allowed, the **TDS** will also indicate whether they are permitted in accordance with ITT 13.3, or invited in accordance with ITT 13.2 and/or ITT 13.4.

15.2 When alternatives to the Time Schedule are explicitly invited, a statement to that effect will be included **in the TDS**, and the method of evaluating different time schedules will be described in Section III, Evaluation and Qualification Criteria.

15.1 Except as provided under ITT 15.4 below, Tenderers wishing to offer technical alternatives to the Procuring Entity's requirements as described in the tendering document must also provide: (i) a price at which they are prepared to offer an Information System meeting the Procuring Entity's requirements; and (ii) all information necessary for a complete evaluation of the alternatives by the Procuring Entity, 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 Tenderer with the Best Evaluated Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.

15.4 When Tenderers are invited **in the TDS** to submit alternative technical solutions for specified parts of the system, such parts shall be described in Section V, Procuring Entity's Requirements. Technical alternatives that comply with the performance and technical criteria specified for the Information System shall be considered by the Procuring Entity on their own merits, pursuant to ITT 35.

16 Documents Establishing the Eligibility of the Information System

16.1 To establish the eligibility of the Information System in accordance with ITT 5, Tenderers shall complete the country-of-origin declarations in the Price Schedule Forms, included in Section IV, Tendering Forms.

17 Documents Establishing the Eligibility and Qualifications of the Tenderer

17..1 To establish its eligibility and qualifications to perform the Contracting accordance with Section III, Evaluation and Qualification Criteria, the Tenderer shall provide the information requested in the corresponding information sheets included in Section IV, Tendering Forms.

17.1 In the event that pre-qualification of potential Tenderers has been undertaken as stated **in the TDS**, only Tenders from pre-qualified Tenderers shall be considered for award of Contract. These qualified Tenderers should submit with their Tenders any information updating their original pre-qualification applications or,

alternatively, confirm in their Tenders that the originally submitted pre-qualification information remains essentially correct as of the date of Tender submission.

- 17.2 Tenderers shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a particular contractor or group of contractors qualifies for a margin of preference. Further the information will enable the Procuring Entity identify any actual or potential conflict of interest in relation to the procurement and/or contract management processes, or a possibility of collusion between tenderers, and thereby help to prevent any corrupt influence in relation to the procurement process or contract management.
- 17.3 The purpose of the information described in ITT 15.1 above overrides any claims to confidentiality which a tenderer may have. There can be no circumstances in which it would be justified for a tenderer to keep information relating to its ownership and control confidential where it is tendering to undertake public sector work and receive public sector funds. Thus, confidentiality will not be accepted by the Procuring Entity as a justification for a Tenderer's failure to disclose, or failure to provide required information on its ownership and control.
- 17.4 The Tenderer shall provide further documentary proof, information or authorizations that the Procuring Entity may request in relation to ownership and control, any changes to the information which was provided by the tenderer under ITT 6.3. The obligations to require this information shall continue for the duration of the procurement process and contract performance and after completion of the contract, if any change to the information previously provided may reveal a conflict of interest in relation to the award or management of the contract.
- 17.5 All information provided by the tenderer pursuant to these requirements must be complete, current and accurate as at the date of provision to the Procuring Entity. In submitting the information required pursuant to these requirements, the Tenderer shall warrant that the information submitted is complete, current and accurate as at the date of submission to the Procuring Entity.
- 17.6 If a tenderer fails to submit the information required by these requirements, its tenderer will be rejected. Similarly, if the Procuring Entity is unable, after taking reasonable steps, to verify to a reasonable degree the information submitted by a tenderer pursuant to these requirements, then the tender will be rejected.
- 17.7 If information submitted by a tenderer pursuant to these requirements, or obtained by the Procuring Entity (whether through its own enquiries, through notification by the public or otherwise), shows any conflict of interest which could materially and improperly benefit the tenderer in relation to the procurement or contract management process, then:
- a. If the procurement process is still ongoing, the tenderer will be disqualified from the procurement process,
 - b. If the contract has been awarded to that tenderer, the contract award will be set aside,
 - c. the tenderer will be referred to the relevant law enforcement authorities for investigation of whether the tenderer or any other persons have committed any criminal offence.
- 17.8 If a tenderer submits information pursuant to these requirements that is incomplete, inaccurate or out-of-date, or attempts to obstruct the verification process, then the consequences ITT 6.7 will ensue unless the tenderer can show to the reasonable satisfaction of the Procuring Entity that any such act was not material, or was due to genuine error which was not attributable to the intentional act, negligence or recklessness of the tenderer.

18 Documents Establishing Conformity of the Information System

- 18.1 Pursuant to ITT 11.1(h), the Tenderer shall furnish, as part of its Tender documents establishing the conformity to the tendering documents of the Information System that the Tenderer proposes to design, supply and install under the Contract.
- 18.2 The documentary evidence of conformity of the Information System to the tendering documents including:
- a) Preliminary Project Plan describing, among other things, the methods by which the Tenderer will carry out its overall management and coordination responsibilities if awarded the Contract, and the human and other resources the Tenderer proposes to use. The Preliminary Project Plan must also address any other topics **specified in the TDS**. In addition, the Preliminary Project Plan should state the Tenderer's assessment of what it expects the Procuring Entity and any other party involved in the implementation of the Information System to provide during implementation and how the Tenderer proposes to coordinate the activities of all involved parties;
 - b) Written confirmation that the Tenderer accepts responsibility for the successful integration and interoperability of all components of the Information System as required by the tendering documents;

- c) An item-by-item commentary on the Procuring Entity's Technical Requirements, demonstrating the substantial responsiveness of the Information System offered to those requirements. In demonstrating responsiveness, the Tenderer is encouraged to use the Technical Responsiveness Checklist (or Checklist Format) in the Sample Tendering Forms (Section IV). The commentary shall include explicit cross-references to the relevant pages in the supporting materials included in the tender. Whenever a discrepancy arises between the item-by-item commentary and any catalogs, technical specifications, or other preprinted materials submitted with the tender, the item-by-item commentary shall prevail;
 - d) Support material (such as 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 TDS ITT 17.2 required Tenderers to tender.
- 18.3 ReferencetobrandnamesormodelnumbersornationalorproprietarystandardsdesignatedbytheProcuring Entity in the tendering documents are intended to be descriptive and not restrictive. Except where explicitly prohibited in the **TDS** for specific items or standards, the Tenderer may substitute alternative brand /model names or standards in its tender, provided that it demonstrates to the Procuring Entity'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.
- 18.4 For major items of the Information System as listed by the Procuring Entity in Section III, Evaluation and Qualification Criteria, which the Tenderer intends to purchase or subcontract, the Tenderer shall give details of the name and nationality of the proposed subcontractors, including manufacturers, for each of those items. In addition, the Tenderer shall include in its Tender information establishing compliance with the requirements specified by the Procuring Entity 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.
- 18.5 The Tenderer shall be responsible for ensuring that any subcontractor proposed complies with the requirements of ITT 4, and that any goods or services to be provided by the subcontractor comply with the requirements of ITT 5 and ITT 16.1.

19 Tender Prices

- 19.1 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 Tenderer to fulfill the requirements of the Information System, must be priced separately and summarized in the corresponding cost tables in the Sample Tendering Forms (Section IV), in accordance with the instructions provided in the tables and in the manner specified below.
- 19.2 **Unless otherwise specified in the TDS**, the Tenderer must also tender 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 table sin the Sample Tendering Forms (Section IV), in accordance with the instructions provided in the tables and in the manner specified below:
- a) **If specified in the TDS**, the Tenderer must also tender 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 Tenderer'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.
- 19.3 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. Tenderers may be required to provide a breakdown of any composite or lump-sum items included in the Cost Tables
- 19.4 The price of items that the Tenderer has left blank in the cost tables provided in the Sample Tender 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 tender and, provided that the tender is substantially responsive, an adjustment to the tender price will be made during tender evaluation in accordance with ITT 31.3.

- 19.5 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 TDS**, as follows:
- a) Goods supplied from outside Kenya:
Unless otherwise specified in the TDS, the prices shall be quoted on a CIP (named place of destination) basis, exclusive of all taxes, stamps, duties, levies, and fees imposed in Kenya. 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 Tenderer shall be free to use transportation through carriers registered in any eligible countries. Similarly, the Tenderer may obtain insurance services from any eligible source country;
 - b) Locally supplied Goods: Unit prices of Goods offered from within Kenya, shall be quoted on an EXW (ex- factory, ex works, ex ware house 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; and
 - c) Inland transportation.
- 19.6 Unless otherwise stated in the **TDS**, 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 ITT 17.5, whether the Goods are to be supplied locally or from outside Kenya, except when these costs are already included in the price of the Goods, as is, such as the case, when ITT 17.5 (a) specifies CIP, and the named places of destination are the Project Sites.
- 19.7 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 Kenyan /to the price of the Services invoiced to the Procuring Entity, if the Contract is awarded.
- 19.8 Unless otherwise specified in the **TDS**, 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 Procuring Entity or its staff, or by third parties, must be included in the price only to the extent such obligations are made explicit in these tendering documents (as, such as a requirement for the Tenderer to include the travel and subsistence costs of trainees).
- 19.9 Unless otherwise specified in the **TDS**, prices quoted by the Tenderer shall be fixed during the Tenderer's performance of the Contract and not subject to increases on any account. Tenders submitted that are subject to price adjustment will be rejected.

20 Currencies of Tender and Payment

- 20.1 The currency(ies) of the Tender and currencies of payment shall be the same. The Tenderer shall quote in Kenya shillings the portion of the Tender price that corresponds to expenditures incurred in Kenya currency, unless otherwise specified **in the TDS**.
- 20.2 The Tenderer may express the Tender price in any currency. If the Tenderer wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but shall use no more than **two foreign currencies** in addition to Kenyan currency.

21 Period of Validity of Tenders

- 21.1 Tenders shall remain valid for the period specified **in the TDS** after the Tender submission deadline date prescribed by the Procuring Entity in accordance with ITT 23.1. A Tender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.
- 21.2 exceptional circumstances, prior to the expiration of the Tender validity period, the Procuring Entity may request Tenderers to extend the period of validity of their Tenders. The request and the responses shall be made in writing. If a Tender Security is requested in accordance with ITT 20.1, it shall also be extended for thirty days (30) beyond the deadline of the extended validity period. A Tenderer may refuse the request without forfeiting its Tender Security. A Tenderer granting the request shall not be required or permitted to modify its Tender, except as provided in ITT 19.3.

22 Tender Security

- 22.1 The Tenderer shall furnish as part of its Tender, either a Tender-Securing Declaration or a Tender Security as specified **in the TDS**, in original form and, in the case of a Tender Security, in the amount and currency specified **in the TDS**.
- 22.2 A Tender-Securing Declaration shall use the form included in Section IV, Tendering Forms.
- 22.3 If a Tender Security is specified pursuant to ITT 20.1, the tender security shall be a demand guarantee in any of the following forms at the Tenderer's option:
- a. cash;
 - b. a bank guarantee;
 - c. a guarantee by an insurance company registered and licensed by the Insurance Regulatory Authority listed by the Authority; or
 - d. a guarantee issued by a financial institution approved and licensed by the Central Bank of Kenya,
 - e. any other form specified in the **TDS**.

If an unconditional guarantee is issued by a non-bank financial institution located outside Kenya, the issuing non-bank financial institution shall have a correspondent financial institution located in Kenya to make it enforceable unless the Procuring Entity has agreed in writing, prior to Tender submission, that a correspondent financial institution is not required.

- 22.4 In the case of a bank guarantee, the Tender Security shall be submitted either using the Tender Security Form included in Section IV, Tendering Forms or in another substantially similar format approved by the Procuring Entity prior to Tender submission. In either case, the form must include the complete name of the Tenderer. The Tender Security shall be valid for thirty days (30) beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 19.2.
- 22.5 If a Tender Security or a Tender-Securing Declaration is specified pursuant to ITT 20.1, any Tender not accompanied by a substantially responsive Tender Security or Tender-Securing Declaration shall be rejected by the Procuring Entity as non-responsive.
- 22.6 The Tender Security shall be returned/released as promptly as possible
- a) The procurement proceedings are terminated;
 - b) The procuring entity determines that none of the submitted tenders is responsive;
 - c) A bidder declines to extend the tender validity.
 - d) Once the successful Tenderer has signed the Contract and furnished the required Performance Security.
- 22.7 The Tender Security may be forfeited or the Tender-Securing Declaration executed:
- a) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer on the Form of Tender; or
 - b) if the successful Tenderer fails to:
 - i) sign the Contract in accordance with ITT 47; or
 - ii) furnish a performance security in accordance with ITT 48.
- 22.8 Where the Tender-Securing Declaration is executed the Procuring Entity will recommend to the PPRA to debar the Tenderer from participating in public procurement as provided in the law.
- 22.9 The Tender Security or the Tender-Securing Declaration of a JV shall be in the name of the JV that submits the tender. If the JV has not been legally constituted in to a legally enforceable JV at the time of Tendering, the Tender Security or the Tender-Securing Declaration shall be in the names of all future members as named in the Form of intent referred to in ITT 4.1 and ITT 11.2.
- 22.10 A tenderer shall not issue a tender security to guarantee itself.

23 Format and Signing of Tender

- 23.1 The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 11 and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 13, shall be clearly marked "ALTERNATIVE". In addition, the Tenderer shall submit copies of the Tender, in the number specified **in the TDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 23.2 Tenderers shall mark as "CONFIDENTIAL" information in their Tenders which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.
- 23.3 The original and all copies of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Tenderer. This authorization shall consist of a written confirmation as specified **in the TDS** and shall be attached to the Tender. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Tender where entries or amendments have been made shall be signed or initialed by the person signing the Tender.
- 23.4 In case the Tenderer is a JV, the Tender 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.
- 23.5 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Tender.

D. SUBMISSION AND OPENING OF TENDERS

24 Submission, Sealing and Marking of Tenders

24.1 The Tenderer shall deliver the Tender in a single, sealed envelope (one (1) envelope process). Within the single envelope the Tenderer shall place the following separate, sealed envelopes:

- a) In an envelope marked “ORIGINAL”, all documents comprising the Tender, as described in ITT 11; and
- b) In an envelope marked “COPIES”, all required copies of the Tender; and,
- c) If alternative Tenders are permitted in accordance with ITT 13, and if relevant:
 - i) In an envelope marked “ORIGINAL–ALTERNATIVETENDER”, the alternative Tender; and
 - ii) in the envelope marked “COPIES – ALTERNATIVE TENDER” all required copies of the alternative Tender.

24.2 The inner envelopes shall:

- a) Bear the name and address of the Tenderer;
- b) Be addressed to the Procuring Entity/ Employer in accordance with ITT 23.1;
- c) Bear the specific identification of this Tendering process specified in accordance with ITT 1.1; and
- d) Bear a warning not to open before the time and date for Tender opening.

The outer envelopes shall:

- e) Be addressed to the Procuring Entity/ Employer in accordance with ITT 23.1;
- f) Bear the specific identification of this Tendering process specified in accordance with ITT 1.1; and bear a warning not to open before the time and date for Tender opening.

24.3 If all envelopes are not sealed and marked as required, the Procuring Entity will assume no responsibility for the misplacement or premature opening of the Tender. Tenders that are misplaced or opened prematurely will not be accepted.

25 Deadline for Submission of Tenders

25.1 Tenders must be received by the Procuring Entity at the address and no later than the date and time indicated **in the TDS**. When so specified **in the TDS**, Tenderers shall have the option of submitting their Tenders electronically. Tenderers submitting Tenders electronically shall follow the electronic Tender submission procedures specified **in the TDS**.

25.2 The Procuring Entity may, at its discretion, extend this deadline for submission of Tenders by amending the tendering documents in accordance with ITT 8, in which case all rights and obligations of the Procuring Entity and Tenderers will thereafter be subject to the deadline as extended.

26 Late Tenders

26.1 The Procuring Entity shall not consider any Tender that arrives after the deadline for submission of Tenders, in accordance with ITT 23. Any Tender received by the Procuring Entity after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Tenderer.

27 Withdrawal, Substitution, and Modification of Tenders

27.1 A Tenderer may withdraw, substitute, or modify its Tender 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 ITT 21.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Tender must accompany the respective written notice. All notices must be:

- a) prepared and submitted in accordance with ITT 21 and ITT 22 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” “MODIFICATION;” and
- b) received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT23.

- 27.2 Tenders requested to be withdrawn in accordance with ITT 25.1 shall be returned unopened to the Tenderers.
- 27.3 No Tender may be withdrawn, substituted, or modified in the interval between the deadline for submission of Tender and the expiration of the period of Tender validity specified by the Tenderer on the Form of Tender or any extension thereof.

28 Tender Opening

- 28.1 Except as in the cases specified in ITT 24 and ITT 25.2, the Procuring Entity shall conduct the Tender opening in public, in the presence of Tenderers' designated representatives who chooses to attend, and at the address, date and time specified **in the TDS**. Any specific electronic Tender opening procedures required if electronic tendering is permitted in accordance with ITT 23.1, shall be as specified **in the TDS**.
- 28.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelopes with the corresponding Tender shall not be opened but returned to the Tenderer. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Tender opening.
- 28.3 Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned to the Tenderer. No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Tender opening.
- 28.4 Envelopes marked "Modification" shall be opened and read out with the corresponding Tender. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Tender opening. Only Tenders that are opened and read out at Tender opening shall be considered further.
- 28.5 Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Tenderer and the Tender Price(s), including any discounts and alternative Tenders, and indicating whether there is a modification; the presence or absence of a Tender Security or Tender-Securing Declaration; and any other details as the Procuring Entity may consider appropriate.
- 28.6 Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further in the evaluation. The Form of Tender and the Price Schedules are to be initialed by representatives of the Procuring Entity attending Tender opening in the manner specified **in the TDS**.
- 28.7 The Procuring Entity shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 24.1).
- 28.8 The Procuring Entity shall prepare a record of the Tender opening that shall include, as a minimum:
- a) The name of the Tenderer and whether there is a withdrawal, substitution, or modification;
 - b) The Tender Price, per lot if applicable, including any discounts;
 - c) Any alternative Tenders; and
 - d) The presence or absence of a Tender Security or a Tender-Securing Declaration.
- 28.9 The Tenderers' representatives who are present shall be requested to sign the minutes. The omission of a Tenderer's signature on the minutes shall not invalidate the contents and effect of the minutes. A copy of the tender opening register shall be distributed to all Tenderers upon request.

E. Evaluation and Comparison of Tenders

29 Confidentiality

- 29.1 Information relating to the evaluation of Tenders and recommendation of contract award, shall not be disclosed to Tenderers or any other persons not officially concerned with the Tendering process until the Notification of Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 42.
- 29.2 Any effort by a Tenderer to influence the Procuring Entity in the evaluation of the Tenders or Contract award decisions may result in the rejection of its Tender.
- 29.3 Not with standing ITT 27.2, from the time of Tender opening to the time of Contract award, if any Tenderer wishes to contact the Procuring Entity on any matter related to the Tendering process, it should do so in writing.

30 Clarification of Tenders

- 30.1 To assist in the examination, evaluation, and comparison of the Tenders, and qualification of the Tenderers, the Procuring Entity may, at its discretion, ask any Tenderer for a clarification of its Tender. Any clarification submitted by a Tenderer that is not in response to a request by the Procuring Entity shall not be considered. The Procuring Entity's request for clarification and the response shall be in writing. No change in the prices or substance of the Tender shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Procuring Entity in the evaluation of the Tenders, in accordance with ITT32.
- 30.2 If a Tenderer does not provide clarifications of its Tender by the date and time set in the Procuring Entity's request for clarification, its Tender may be rejected.

31 Deviations, Reservations, and Omissions

- 31.1 During the evaluation of Tenders, the following definitions apply:
 - a) "Deviation" is a departure from the requirements specified in the tendering document;
 - b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the tendering document; and
 - c) "Omission" is the failure to submit part, or all of the information or documentation required in the tendering document.

32 Determination of Responsiveness

- 32.1 The Procuring Entity's determination of a Tender's responsiveness is to be based on the contents of the Tender itself, as defined in ITT 11.
- 32.2 A substantially responsive Tender is one that meets the requirements of the tendering 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 Information System specified in the Contract; or
 - ii) Limit in any substantial way, in consistent with the tendering document, the Procuring Entity's rights or the Tenderer's obligations under the proposed Contract; or
 - b) if rectified, would unfairly affect the competitive position of other Tenderers presenting substantially responsive Tenders.
- 32.3 The Procuring Entity shall examine the technical aspects of the Tender in particular, to confirm that all requirements of Section V, Procuring Entity's Requirements, have been met without any material deviation, reservation, or omission.
- 32.4 To be considered for Contract award, Tenderers must have submitted Tenders:
 - a) for which detailed Tender evaluation using the same standards for compliance determination as listed in ITT 29 and ITT 30.3 confirms that the Tenders are commercially and technically responsive, and include the hardware, Software, related equipment, products, Materials, and other Goods and Services components of the Information System in substantially the full required quantities for the entire

Information System or, if allowed in the TDS ITT 35.8, the individual Subsystem, lot or slice Tender on; and are deemed by the Procuring Entity as commercially and technically responsive; and

- b) that offer Information Technologies that are proven to perform up to the standards promised in the tender by having successfully passed the performance, benchmark, and/or functionality tests the Procuring Entity may require, pursuant to ITT 39.3.

33 Non-material non-conformities

- 33.1 Provided that a Tender is substantially responsive, the Procuring Entity may waive any nonconformity in the Tender that does not constitute a material deviation, reservation or omission.
- 33.2 Provided that a Tender is substantially responsive, the Procuring Entity may request that the Tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial non-conformities in the Tender related to documentation requirements. Requesting information or documentation on such non-conformities shall not be related to any aspect of the price of the Tender. Failure of the Tenderer to comply with the request may result in the rejection of its Tender.
- 33.3 Provided that a Tender is substantially responsive, the Procuring Entity shall rectify quantifiable nonmaterial non-conformities related to the Tender Price. To this effect, the Tender Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified **in the TDS**.

34 Correction of Arithmetical Errors

- 34.1 The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in anyway by any person or entity.
- 34.2 Provided that the Tender is substantially responsive, the Procuring Entity shall handle errors on the following basis:
 - a) Any error detected if considered a major deviation that affects the substance of the tender, shall lead to disqualification of the tender as non-responsive.
 - b) Any errors in the submitted tender arising from a miscalculation of unit price, quantity, subtotal and total bid price shall be considered as a major deviation that affects the substance of the tender and shall lead to disqualification of the tender as non-responsive. 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.

35 Conversion to Single Currency

- 35.1 For evaluation and comparison purposes, the currency(ies) of the Tender shall be converted into a single currency as specified **in the TDS**.

36 Margin of Preference and Reservations

- 36.1 A margin of preference on local contractors may be allowed only when the contract is open to international competitive tendering where foreign contractors are expected to participate in the tendering process and where the contract exceeds the value/ threshold specified in the Regulations.
- 36.2 A margin of preference shall not be allowed unless it is specified so in the **TDS**.
- 36.3 Contracts procured on basis of international competitive tendering shall not be subject to reservations exclusive to specific groups as provided in ITT 34.4.
- 36.4 Where it is intended to reserve a contract to a specific group of businesses (these groups are Small and Medium Enterprises, Women Enterprises, Youth Enterprises and Enterprises of persons living with disability, as the case maybe), and who are appropriately registered as such by the authority to be specified in the **TDS**, a procuring entity shall ensure that the invitation to tender specifically indicates in the **TDS** that only businesses or firms belonging to the specified group are eligible to tender. No tender shall be reserved to more than one group. If not so stated in the Invitation to Tender and in the Tender documents, the invitation to tender will be open to all interested tenderers.

37 Evaluation of Tenders

- 37.1 The Procuring Entity shall use the criteria and methodologies listed in this ITT and Section III, Evaluation and Qualification criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies the Procuring Entity shall determine the Best Evaluated Tender.
- 37.2 To evaluate a Tender, the Procuring Entity shall consider the following:
- a) Price adjustment due to discounts offered in accordance with ITT 14.4;
 - b) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITT 33;
 - c) price adjustment due to quantifiable nonmaterial non-conformities in accordance with ITT 31.3; and
 - d) any additional evaluation factors specified **in the TDS** and Section III, Evaluation and Qualification Criteria.

38 Preliminary Examination

- 38.1 The Procuring Entity will examine the tenders, to determine whether they have been properly signed, whether required sureties have been furnished, whether any computational errors have been made, whether required sure ties have been furnished and are substantially complete (such as not missing key parts of the tender or silent on excessively large portions of the Technical Requirements). In the case where a pre-qualification process was undertaken for the Contract (s) for which these tendering documents have been issued, the Procuring Entity will ensure that each tender is from a pre-qualified Tenderer and, in the case of a Joint Venture, that partners and structure of the Joint Venture are unchanged from those in the pre-qualification.

39 Technical Evaluation

- 39.1 The Procuring Entity will examine the information supplied by the Tenderers Pursuant to ITT 11 and ITT 16, and in response to other requirements in the Tendering document, considering the following factors:
- a) Overall completeness and compliance with the Technical Requirements; and deviations from the Technical Requirements;
 - b) suitability of the Information System offered in relation to the conditions prevailing at the site; and the suitability of the implementation and other services proposed, as described in the Preliminary Project Plan included in the tender;
 - c) achievement of specified performance criteria by the Information System;
 - d) compliance with the time schedule called for by the Implementation Schedule and any alternative time schedules offered by Tenderers, as evidenced by a milestone schedule provided in the Preliminary Project Plan included in the tender;
 - e) type, quantity, quality, and long-term availability of maintenance services and of any critical consumable items necessary for the operation of the Information System;
 - f) any other relevant technical factors that the Procuring Entity deems necessary or prudent to take into consideration;
 - g) any proposed deviations in the tender to the contractual and technical provisions stipulated in the tendering documents.
- 39.2 The Procuring Entity's evaluation of tenders will consider technical factors, in addition to cost factors. The Technical Evaluation will be conducted following the Criteria specified in Section III, Evaluation and Qualification Criteria, which permits a comprehensive assessment of the technical merits of each Tender. All tenders that fail to pass this evaluation will be considered non-responsive and will not be evaluated further.
- 39.3 Where alternative technical solutions have been allowed in accordance with ITT 13, and offered by the Tenderer, the Procuring Entity will make a similar evaluation of the alternatives. Where alternatives have not been allowed but have been offered, they shall be ignored.
- 39.4 Where the tender involves multiple lots or contracts, the tenderer will be allowed to tender for one or more lots (contracts). Each lot or contract will be evaluated in accordance with ITT 35.2. The methodology to determine the lowest evaluated tenderer or tenderers based one lot (contract) or based on a combination of lots (contracts), will be specified in Section III, Evaluation and Qualification Criteria. In the case of multiple lots or contracts, tenderer will be will be required to prepare the Eligibility and Qualification Criteria Form for each Lot.

40 Financial/ Economic Evaluation

40.1 To evaluate a Tender, the Procuring Entity shall consider the following:

- a) price adjustment due to unconditional discounts offered in accordance with ITT 26.8; excluding provisional sums and contingencies, if any, but including Day work items, where priced competitively.
- b) Price adjustment due to quantifiable non material non-conformities in accordance with ITT 31.3;
- c) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITT 33; and
- d) the evaluation factors indicated in Section III, Evaluation and Qualification Criteria.

If price adjustment is allowed in accordance with ITT 17.9, 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 considered in Tender evaluation.

40.1 The Procuring Entity will evaluate and compare the Tenders that have been determined to be substantially responsive, pursuant to ITT 35.4. The evaluation will be performed assuming either that:

- a) The Contract will be awarded to the Lowest Evaluated Tender for the entire Information System; or
- b) if specified **in the TDS**, Contracts will be awarded to the Tenderers for each individual Subsystem, lot, or slice if so defined in the Technical Requirements whose Tenders result in the Lowest Evaluated Tender/ Tenders 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 Tenders. Such discounts will be considered in the evaluation of tenders as specified **in the TDS**.

41 Comparison of Tenders

41.1 The Procuring Entity shall compare all substantially responsive Tenders in accordance with ITT 35.6 to determine the lowest evaluated cost.

42 Abnormally Low Tenders and Abnormally High Tenders

42.1 An Abnormally Low Tender is one where the Tender price in combination with other constituent elements of the Tender appears unreasonably low to the extent that the Tender price raises material concerns as to the capability of the Tenderer to perform the Contract for the offered Tender Price or that genuine competition between Tenderers is compromised.

42.2 In the event of identification of a potentially Abnormally Low Tender, the Procuring Entity shall seek written clarifications from the Tenderer, including detailed price analyses of its Tender 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 tendering document.

42.3 After evaluation of the price analyses, in the event that the Procuring Entity determines that the Tenderer has failed to demonstrate its capability to perform the Contract for the offered Tender Price, the Procuring Entity shall reject the Tender.

Abnormally High Tenders

42.4 An abnormally high tender price is one where the tender price, in combination with other constituent elements of the Tender, appears unreasonably too high to the extent that the Procuring Entity is concerned that it (the Procuring Entity) may not be getting value for money or it may be paying too high a price for the contract compared with market prices or that genuine competition between Tenderers is compromised.

42.5 In case of an abnormally high price, the Procuring Entity shall make a survey of the market prices, check if the estimated cost of the contract is correct and review the Tender Documents to check if the specifications, scope of work and conditions of contract are contributory to the abnormally high tenders. The Procuring Entity may also seek written clarification from the tenderer on the reason for the high tender price. The Procuring Entity shall proceed as follows:

- a. If the tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entity may accept or not accept the tender depending on the Procuring Entity's budget considerations.
- b. If specifications, scope of work and/ or conditions of contract are contributory to the abnormally high tender prices, the Procuring Entity shall reject all tenders and may retender for the contract based on revised estimates, specifications, scope of work and conditions of contract, as the case may be.

42.6 If the Procuring Entity determines that the Tender Price is abnormally too high because genuine competition between tenderers is compromised (*often due to collusion, corruption or other manipulations*), the Procuring Entity shall reject all Tenders and shall institute or cause competent Government Agencies to institute an investigation on the cause of the compromise, before retendering.

43 Unbalanced or Front-Loaded Tenders

43.1 If the Tender that is evaluated as the lowest evaluated cost is, in the Procuring Entity's opinion, seriously unbalanced or front loaded the Procuring Entity may require the Tenderer to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the Tender prices with the scope of information systems, installations, proposed methodology, schedule and any other requirements of the tendering document.

43.2 After the evaluation of the information and detailed price analyses presented by the Tenderer, the Procuring Entity may: -

- a) Accept the Tender; or
- b) If appropriate, require that the total amount of the Performance Security be increased, at the expense of the Tenderer, to a level not exceeding twenty percent (20%) of the Contract Price; or
- c) Reject the Tender.

44 Eligibility and Qualification of the Tenderer

44.1 The Procuring Entity shall determine to its satisfaction whether the Tenderer that is selected as having submitted the lowest evaluated and substantially responsive Tender is eligible and meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

44.2 The determination shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 15.

44.3 Unless otherwise specified in the **TDS**, the Procuring Entity will NOT carry out tests at the time of post-qualification, 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 **TDS** the Procuring Entity may carry out such tests as detailed in the **TDS**.

44.4 An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative determination shall result in disqualification of the Tender, in which event the Procuring Entity shall proceed to the next lowest evaluated cost or best evaluated Tender, as the case may be, to make a similar determination of that Tenderer's qualifications to perform satisfactorily.

44.5 The capabilities of the manufacturers and subcontractors proposed by the Tenderer that is determined to have offered the Best Evaluated Tender 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 Form of intent between the parties, as needed. Should a manufacturer or subcontractor be determined to be unacceptable, the Tender will not be rejected, but the Tenderer will be required to substitute an acceptable manufacturer or subcontractor without any change to the Tender 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.

44.6 Foreign tenderers are required to source at least forty (40%) percent of their contract inputs (in supplies, subcontracts and labor) from national suppliers and contractors. To this end, a foreign tenderer shall provide in its tender documentary evidence that this requirement is met. Foreign tenderers not meeting this criterion will be automatically disqualified. Information required to enable the Procuring Entity determine if this condition is met shall be provided in for this purpose is be provided in "*SECTION III- EVALUATION AND QUALIFICATION CRITERIA*".

45 Procuring Entity's Right to Accept Any Tender, and to Reject Any or All Tenders

45.1 The Procuring Entity reserves the right to accept or reject any Tender, and to annul the Tendering process and reject all Tenders at any time prior to contract award, without there by incurring any liability to Tenderers. In case of annulment, all Tenders submitted and specifically, Tender securities, shall be promptly returned to the Tenderers.

F. AWARD OF CONTRACT

46 Award Criteria

46.1 Subject to ITT 40, the Procuring Entity shall award the Contract to the successful tenderer whose tender has been determined to be the Lowest/ best Evaluated Tender. The determination of the lowest/ Best Evaluated Tender will be made in accordance to one of the two options as defined in the TDS. The methodology options are:

The Procuring Entity shall award the Contract to the successful tenderer whose tender has been determined to be the Lowest Evaluated Tender

- a) When **rated criteria are used**: The Tenderer that meets the qualification criteria and whose Tender:
 - i) Is substantially responsive; and
 - ii) Is the Best Evaluated Tender (i.e. the Tender with the highest combined technical/ quality/ price score); or
- b) When **rated criteria are not used**: The Tenderer that meets the qualification criteria and whose Tender has been determined to be:
 - i) Most responsive to the tendering document; and
 - ii) The lowest evaluated cost.

47 Procuring Entity's Right to Vary Quantities at Time of Award

47.1 The Procuring Entity reserves the right at the time of Contract award to increase or decrease, by the percentage (s) for items as indicated **in the TDS**.

48 Notice of Intention to enter into a Contract/ Notification of award

48.1 Upon award of the contract and Prior to the expiry of the Tender Validity Period the Procuring Entity shall issue a Notification of Intention to Enter into a Contract/ Notification of award to all tenderers which shall contain, at a minimum, the following information:

- a) The name and address of the Tenderer submitting the successful tender;
- b) The Contract price of the successful tender;
- c) a statement of the reason(s) the tender of the unsuccessful tenderer to whom the letter is addressed was unsuccessful, unless the price information in (c) above already reveals the reason;
- d) the expiry date of the Standstill Period; and
- e) instructions on how to request a debriefing and/ or submit a complaint during the standstill period;

49 Standstill Period

49.1 The Contract shall not be signed earlier than the expiry of a Standstill Period of 14 days to allow any dissatisfied tender to launch a complaint. Where only one Tender is submitted, the Standstill Period shall not apply.

49.2 Where a Standstill Period applies, it shall commence when the Procuring Entity has transmitted to each Tenderer the Notification of Intention to Enter in to a Contract with the successful Tenderer.

50 Debriefing by the Procuring Entity

50.1 On receipt of the Procuring Entity's Notification of Intention to Enter into a Contract referred to in ITT 43, an unsuccessful tenderer may make a written request to the Procuring Entity for a debriefing on specific issues or concerns regarding their tender. The Procuring Entity shall provide the debriefing within five days of receipt of the request.

50.2 Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its own costs of attending such a debriefing meeting.

51 Letter of Award

- 51.1 Prior to the expiry of the Tender Validity Period and upon expiry of the Standstill Period specified in ITT44.1, upon addressing a complaint that has been filed within the Standstill Period, the Procuring Entity shall transmit the Letter of Award to the successful Tenderer. The letter of award shall request the successful tenderer to furnish the Performance Security within 21 days of the date of the letter.

52 Signing of Contract

- 52.1 Upon the expiry of the fourteen days of the Notification of Intention to enter in to contract and upon the parties meeting their respective statutory requirements, the Procuring Entity shall send the successful Tenderer the Contract Agreement.
- 52.2 Within fourteen (14) days of receipt of the Contract Agreement, the successful Tenderer shall sign, date, and return it to the Procuring Entity.
- 52.3 The written contract shall be entered into within the period specified in the notification of award and before expiry of the tender validity period.
- 52.4 Notwithstanding ITT 47.2 above, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Procuring Entity, to Kenya, 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 Tenderer shall not be bound by its Tender, provided that the Tenderer can demonstrate that signing of the Contract Agreement has not been prevented by any lack of diligence on the part of the Tenderer 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.

53 Performance Security

- 53.1 Within twenty-one (21) days of the receipt of the Form of Acceptance from the Procuring Entity, the successful Tenderer shall furnish the performance security in accordance with the General Conditions, subject to ITT38.2 (b), using for that purpose the Performance Security Form included in Section X, Contract Forms, or another form acceptable to the Procuring Entity. If the Performance Security furnished by the successful Tenderer is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Tenderer to be acceptable to the Procuring Entity. A foreign institution providing a Performance Security shall have a correspondent financial institution located in Kenya.
- 53.2 Failure of the successful Tenderer to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the Tenderer offering the next Best Evaluated Tender.

49 Publication of Procurement Contract

Within fourteen days after signing the contract, the Procuring Entity shall publish the awarded contract at its notice boards and websites; and on the Website of the Authority. At the minimum, the notice shall contain the following information:

- a) Name and address of the Procuring Entity;
- b) Name and reference number of the contract being awarded, a summary of its scope and the selection method used;
- c) The name of the successful Tenderer, the final total contract price, the contract duration.
- d) Dates of signature, commencement and completion of contract;
- e) Names of all Tenderers that submitted Tenders, and their Tender prices as read out at Tender opening.

50. Adjudicator

- 50.1 Unless **the TDS** states otherwise, the Procuring Entity proposes that the person named **in the TDS** 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 TDS. The proposed hourly fee for the Adjudicator is specified in the TDS. The expenses that would be considered reimbursable to the Adjudicator are also specified **in the TDS**. If a Tenderer does not accept the Adjudicator proposed by the Procuring Entity, it should state its non-acceptance in its Tender Form and make a counter proposal of an

Adjudicator and an hourly fee, attaching résumé of the alternative. If the successful Tenderer and the Adjudicator nominated **in the TDS** happen to be from the same country, and this is not Kenya too, the Procuring Entity reserves the right to cancel the Adjudicator nominated **in the TDS** and propose a new one. If by the day the Contract is signed, the Procuring Entity and the successful Tenderer 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.

51. Procurement Related Complaints and Administrative Review

51.1 The procedures for making a Procurement-related Complaint are as specified in the **TDS**.

51.2 A request for administrative review shall be made in the form provided under contract forms.

SECTION II - TENDER DATA SHEET (TDS)

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

[Instructions for completing the Tender Data Sheet are provided, as needed, in the notes in italics mentioned for the relevant ITT].

ITT Reference		Particulars of Appendix to Instructions to Tenders
A. General		
ITT 1.1	The reference number of the Request for Tenders (ITT) is:	KESRETI/OT/008/2025--26
	The Procuring Entity is:	Kenya Sugar Research and Training Institute (KESRETI)
	The name of the ITT is:	Tender for Establishment, Commissioning and Support of ERP System and Related Software; Supply and Delivery of Ancillary ICT Hardware as per defined lots (see 2.2 below).
	The number and identification of lots (contracts) comprising this ITT is:	
Tender consists of ten (10) lots: 1. Analysis, Design, Development, Installation, Commissioning and Support of ERP System 2. Supply, Delivery, Installation, Commissioning and Support of SQL Server Software 3. Supply, Delivery, Installation, Commissioning and Support of GIS Software 4. Supply, Delivery, Installation, Commissioning and Support of Computer Aided Design (CAD) Software 5. Supply, Delivery, Installation, Commissioning and Support of Statistical Analysis Software 6. Supply, Delivery, Installation, Commissioning and Support of Photo and Video Editing Software 7. Supply, Delivery, Installation, Commissioning and Support of Photo and Video Editing Software 8. Supply, Delivery, Installation, Commissioning and Support of GPU & PSU for Dell PE R770 9. Supply and Delivery of Windows Client OS Software 10. Supply and Delivery of Office Productivity Software ✓ Technical support will be in-built for the warranty period or in a 3-year contract renewable annually.		
ITT 2.3 (a)	Electronic –Procurement System	KESRETI shall use the following electronic-procurement system to manage this Tendering process: Not applicable
		The electronic-procurement system shall be used to manage the following aspects of the Tendering process: Not applicable
ITT 3.3	The firms (if any) that provided consulting services for the contract being tendered for are:	Not applicable
ITT 4.1	The maximum number of members in the Joint Venture (JV) shall be:	Not applicable
ITT 4.9	KESRETI may require tenderers to be registered with:	Registration with relevant Regulatory bodies as enumerated in PART 2, Section B(i)(1) below
B. Tendering Document		

ITT Reference	Particulars of Appendix to Instructions to Tenders	
ITT 8.1	For Clarification of Tender purposes only, KESRETI's address is:	KENYA SUGAR RESEARCH AND TRAINING INSTITUTE
	Attention:	CEO
	Postal Address:	P. O. BOX 44 - 40100
	Physical Address:	KIBOS, ALONG KISUMU – MIWANI ROAD
	Telephone:	020 204 7307/ 0735 339912
	Electronic mail address:	tenders@kesreti.org
	Requests for clarification should be received by KESRETI no later than:	3 working days before tender closing
ITT 8.2	Web page::	https://www.kesreti.org/kesreti-tender-documents-download-page/
	In case used, identify the widely used website or electronic portal of free access where Tendering process information is published.	
ITT 8.4	Pre-tender visit:	
	Not Applicable	
ITT 9.1	KESRETI shall publish Minutes of the pre-Tender meeting and the pre-arranged pretender visit of the site of the works:	
	Not Applicable	
C. Preparation of Tenders		
ITT 13.1 (k)	The Tenderer shall submit the following additional documents in its Tender:	
	As specified in preliminary evaluation criteria	
ITT 15.1	Alternative Tenders:	
	Not Applicable	
	If alternatives shall be considered, the methodology shall be:	
		Not Applicable
ITT 15.2	Alternative times for completion:	
	Shall be permitted	
	If alternative times for completion are permitted, the methodology shall be:	
		Defined in section III, evaluation and qualification criteria
ITT 15.4	Alternative technical solutions shall be permitted for the following parts of the Services:	
	1) Respective ERP Modules can be determined to be either native to the core ERP application or third-party application to be integrated into the core ERP application	
	2) Alternative editions and licensing modes are permitted including open source	
	If alternative technical solutions are permitted, the methodology shall be:	
		Defined in section III, evaluation and qualification criteria
ITT 17.2	Prequalification:	
	Not undertaken	
ITT 18.2	In addition to the topics described in ITT Clause 16.2 (a), the Preliminary Project Plan must address the following topics:	
	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	
	iii) Training Sub-Plan	
	iv) Testing and Quality Assurance Sub-Plan	
	v) Technical Support Service Sub-Plan	
ITT 17.2	In the interest of effective integration, cost-effective technical support, and reduced re-training and staffing costs, Tenderers are required to offer specific brand names and models for the following limited number of specific items:	
	1) Microsoft for ERP; GenStat and STATA for statistical analysis; ArcGIS or QGIS for GIS	
ITT 19.2	Recurrent Cost Items:	
	Must be provided	
		Recurrent Cost Items not included in the main Contract:

ITT Reference	Particulars of Appendix to Instructions to Tenders	
ITT 19.2(a)	Must be tendered for	
ITT 19.5	The Incoterms edition is: 2020 or as advised	
ITT 19.5(a)	Named place of destination is: KESRETI Head Office, Kibos, along Kisumu – Miwani Road, Kisumu	
ITT 19.6	Named place of final destination (or Project site) is: KESRETI Head Office, Kibos, along Kisumu – Miwani Road, Kisumu	
ITT 19.8	ITT 17.8 is modified as follows: Not applicable	
ITT 19.9	Quoted price adjustment by the Tenderer: Not permitted If quoted price adjustment by the Tenderer is permitted, the methodology shall be: Based on regulation 105 of public procurement and asset disposal regulations 2020, using central bank’s monthly inflation rate or consumer price index.	
ITT 20.1	Quoting the currency of Kenya in the portion of the Tender price that corresponds to expenditures incurred in that currency: Shall be required	
ITT 21.1	The Tender validity period: 140 days from tender opening date	
ITT 22.1	Tender Security: Shall be required except for LOT nine (9) and ten (10) that will required tender securing declaration If a Tender Security shall be required, the amount and currency of the Tender Security shall be: Kenya Shillings for all the Lots as follows: LOT1 (300,000/=); LOT2 (10,000/=); LOT3 (32,000/=); LOT4 (10,000/=); LOT5 (30,000/=); LOT6 (5,200/=); LOT7 (4,000/=); LOT9 (N/A); LOT10 (N/A). <i>NB: In case of lots, please insert amount and currency of the Tender Security for each lot. however, if the amount of Tender Security is less than the total required amount, KESRETI will determine for which lot or lots the Tender Security amount shall be applied.</i>	
ITT 23.1	Number of Copies: Original plus one (1) copy	
ITT 23.3	Written confirmation of authorization: Power of attorney required, signed by an advocate of The high court	
D. Submission and Opening of Tenders		
ITT 25.1	For <u>Tender submission purposes</u> only, KESRETI’s address is:	Kenya Sugar Research and Training Institute
	Attention:	CEO
	Postal Address:	P. O. Box 44 – 40100
	Physical Address:	Kibos, Along Kisumu – Miwani Road
ITT 25.1	The closing date and time for Tender submission is: May 27, 2026 at 11:00 AM	
	Electronic submission: Not permitted	
ITT 28.1	The Tender opening shall take place at:	Kenya Sugar Research And Training Institute (KESRETI), Seminar Room
	Physical Address:	Kibos, Along Kisumu – Miwani Road
ITT 27.1	Tender opening procedures shall be held on: May 27, 2026 at 11:00 AM at seminar room	
ITT 28.6	Tender documents initialing during tender opening meeting: Each tender shall be initialed by KESRETI tender opening committee and shall be numbered, any modification to the unit or total price shall be initialed by the representative of KESRETI.	

ITT Reference	Particulars of Appendix to Instructions to Tenders
	E. Evaluation and Comparison of Tenders
ITT 33.3	Price adjustment for omissions: Not applicable If Price adjustment for omissions is permitted, the methodology shall be: Not applicable
ITT 34.2	The invitation to tender is extended to the following group that qualify for Reservations: LOT nine (9) and LOT ten (10) of this tender are reserved for SIG (youth, women and persons living with disability), Valid AGPO certificate shall be required. <i>(The SIG groups are Small and Medium Enterprises, Women Enterprises, Youth Enterprises and Enterprises of persons living with disability, as the case may be; describe precisely which group qualifies).</i>
ITT 35.1	The currency(ies) of the Tender shall be converted into a single currency as follows: Kenya Shillings (KES) The currency that shall be used for Tender evaluation and comparison purposes to convert all Tender prices expressed in various currencies into a single currency is Kenya Shillings (KES) The source of exchange rate shall be: The Central Bank of Kenya The date for the exchange rate shall be: Tender opening date
ITT 36.2	Margin of preference: Not applicable
ITT 36.4	The invitation to tender is extended to the following group that qualify for Reservations: Small and medium enterprises, women enterprises, youth enterprises and enterprises of persons living with disability
ITT 40.2(b)	Quoting separate prices for different lots (contracts for Subsystems, lots, or slices of the overall Information System): Shall be required The methodology to determine the lowest tenderer: Specified in section III, evaluation and qualification criteria. Discount that are conditional on the award of more than one Subsystem, lot, or slice may be offered in Tenders Shall be considered in the price evaluation except when rated criteria are used for evaluation
ITT 46.1	Rating criteria for award: Not applicable If the award is made on the basis of rated criteria] pursuant to ITT 35.7: Shall be specified in section III, evaluation and qualification criteria.
ITT 47.1	The maximum number by which quantities may be increased is: 5 The maximum number by which quantities may be decreased is: 10 The items for which the Procuring Entity may increase or decrease the quantities are the following: 1) Number of modules for ERP; and 2) Number of licences for GIS, CAD and statistical analysis software
ITT 50.1	Appointing Authority for Adjudicator: To be mutually agreed upon award The hourly fee for this proposed Adjudicator shall be: To be advised The biographical data of the proposed Adjudicator is as follows: To be advised
ITT 51.1	The procedures for making a procurement-related complaint are:

ITT Reference	Particulars of Appendix to Instructions to Tenders
	Available from the “notification of intention to award - paragraph 5” and from the PPRA website www.ppra.go.ke
	Submission of procurement-related complaint:
	In writing by the quickest means available, that is either by hand delivery or email to: director@kesreti.org copy to ppra via www.ppra.go.ke or complaints@ppra.go.ke.
	For the attention: CEO
	Title/position: Chief Executive Officer
	Procuring Entity: Kenya Sugar Research and Training Institute
	Email address: director@kesreti.org
	In summary, a procurement-related complaint may challenge any of the following: (i) the terms of the Tender Documents; and (ii) KESRETI’s decision to award the contract.

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

1. General Provision

1.1. Wherever a Tenderer is required to state a monetary amount, Tenderers should indicate the Kenya Shilling equivalent using the rate of exchange determined as follows:

- a) For construction turnover or financial data required for each year- Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year are to be converted) was originally established.
- b) Value of single contract- Exchange rate prevailing on the date of the contract signature.
- c) Exchange rates shall be taken from the publicly available source identified in the ITT. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

1.2. This Section contains all the criteria that the Procuring Entity shall use to evaluate Tenders and qualify Tenderers. No other factors, methods or criteria shall be used. The Tenderer shall provide all the information requested in the forms included in Section IV, Tendering Forms. The Procuring Entity should use **the Standard Tender Evaluation Report for Goods and Works** for evaluating Tenders.

1.3. Multiple Contracts; multiple contracts will be permitted in accordance with ITT35.6. Tenderers are evaluated on basis of Lots and the lowest evaluated tenderer identified for each Lot. The Procuring Entity will select one Option of the two Options listed below for award of Contracts.

OPTION 1

- i) If a tenderer wins only one Lot, the tenderer will be awarded a contract for that Lot, provided the tenderer meets the Eligibility and Qualification Criteria for that Lot.
- ii) If a tenderer wins more than one Lot, the tender will be awarded contracts for all won Lots, provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the Lots. The tenderer will be awarded the combination of Lots for which the tenderer qualifies and the others will be considered for award to second lowest the tenderers.

OPTION 2

The Procuring Entity will consider all possible combinations of won Lots [contract(s)] and determine the combinations with the lowest evaluated price. Tenders will then be awarded to the Tenderer or Tenderers in the combinations provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the won Lots.

2. Evaluation and contract award Criteria

The Procuring Entity shall use the criteria and methodologies listed in this Section to evaluate tenders and arrive at the Lowest Evaluated Tender. The tender that (i) meets the qualification criteria, (ii) has been determined to be substantially responsive to the Tender Documents, and (iii) is determined to have the Lowest Evaluated Tender price shall be selected for award of contract.

3. Preliminary examination for Determination of Responsiveness

The Procuring Entity will start by examining all tenders to ensure they meet in all respects the eligibility criteria and other mandatory requirements in the ITT, and that the tender is complete in all aspects in meeting the requirements provided for in the preliminary evaluation criteria outlined below. The Standard Tender Evaluation Report Document for Goods and Works for evaluating Tenders provides very clear guide on how to deal with review of these requirements. Tenders that do not pass the Preliminary Examination will be considered non-responsive and will not be considered further.

[The Procuring Entity will provide the preliminary evaluation criteria. To facilitate, a template maybe attached or clearly described all information and list of documentation to be submitted by Tenderers to enable preliminary evaluation of the Tender]

3.1. Mandatory Requirements:

No	Criteria	Requirement	Compliance (Yes/ No)
1.	Business incorporation/ registration:	Must attach copy of certificate of incorporation/ business registration in Kenya	
2.	CR12 Form:	Must submit copy issued by the Registrar of Companies (CR12) – Issued in the last THREE MONTHS	
3.	Local administration authorization:	Attach valid copy of business permit/ license from relevant County Government	
4.	Tax status:	Must attach valid copy of tax compliance certificate issued by the Kenya Revenue Authority (KRA)	
5.	Financial status:	Must submit copies for the last three (3) years certified audited financial accounts i.e. Years 2022, 2023, and 2024. The audited accounts must be provided as per guidelines by the Institute of Certified Public Accountants Kenya (ICPAK). This is NOT applicable IF applying under reserved category (Youth, Women, PWD).	
6.	OEM)/ Dealer/ Partner Authorization:	Must provide a duly signed authorization from the software owners (OEM) or the authorized dealers to sell and or support their products in Kenya.	
7.	AGPO Approval:	Valid access to government procurement opportunities (AGPO) Certificate IF applying under reserved category (Youth, Women, PWD).	
8.	Form of Tender:	Must dully fill, sign and stamp the “Form of Tender” in the format provided – form attached.	
9.	Business details:	Must submit duly filled confidential business questionnaire in format provided – form attached.	
10.	Self-Declaration Form (SD2 - corruption):	Must complete a self-declaration that the bidder/ person will not engage in any corrupt or fraudulent practices – form attached	
11.	Self-Declaration Form (SD1 - debarment):	Must complete a self-declaration that the bidder/person is not debarred in the matter of public procurement – form attached	
12.	Conflict of interest:	Must complete disclosure of interest in the format provided – form attached.	
13.	Independent tender determination:	Must attach a duly filled, signed and stamped certificate of independent tender determination as per the format provided (in section IV) – form attached	
14.	Code of ethics:	Must declare commitment to the code of ethics by attaching a duly filled, signed and stamped as per the format provided (in section IV) – form attached	
15.	Pricing details:	Must submit duly completed, signed and stamped price schedule in the format provided – form attached. The form can be amended to provide details of costing per module/ function (license, professional fees, training, support, etc.) of the respective software/ system	
16.	Tender Security:	Must be submitted (as provided in the TDS) in the form of a bank guarantee and must remain valid for an additional one hundred and forty (140) days after tender validity period. This is NOT applicable IF applying under reserved category (Youth, Women, PWD) where Tender Securing Declaration Form must be dully filled as per the format provided.	
17.	Document signing:	Must provide power of attorney, authorizing the person signing documents on behalf of the Tenderer, by an advocate of the high court.	
18.	Document presentation:	Entire Bid document must be well presented (bound with no loose pages) and chronologically serialized including pagination.	

4. Assessment of adequacy of Tender's Proposal in connection with Procuring Entity's IT Requirements.

TECHNICAL EVALUATION

The Criteria, sub-criteria, and point system for the evaluation of the Tenders Proposal on meeting the Procuring Entity's Requirements:

The minimum technical score required to pass is 70 on a scale of 1 to 100.

Item	Criteria Description	Marks
1)	Specific experience of the Tenderer, as a firm, relevant to the provision of services tendered for among the 4 lots listed in the TDS [5 Marks]	5
	a) Provide proof of at least five (5) reference sites: [1 Mark]. b) Where have services have been undertaken by the firm in the last five (5) years: [3 Marks]. c) Three (3) of which must be public institutions: [1 Mark].	
2)	Adequacy and quality of the proposed methodology, and work plan in responding to the Procuring Entity's Requirements [5 Marks]	5
	a) Technical Approach and Methodology [1 Marks]	
	[project method, project plan, change & risk management plans; implementation phases; timelines, milestones, and key performance indicators (KPIs) and support; integration needs, data migration, security/compliance, scalability; and warranty/ support structure included?]	
	b) Work plan [2 Marks]	
	[allocated resources {project scope vs timelines; and presentation Gantt charts etc.}; document presentation {including drawings and catalogues}; and reporting]	
	c) Organization and staffing establishment [2 Marks]	
	[representative organogram, functions; and help desk/ technical support escalation matrix]	
3)	Conformity to Technical Specifications [60 Marks]	60
	a) Functional, Architectural and Performance Requirements, including suitability of the Server System offered [20 Marks]	
	[Legal and Regulatory Requirements [0.5 Mark]; Business Function Requirements [18 Mark]; Architectural Requirements [0.5 Mark]; Systems Administration and Management Functions Required [0.5 Marks]; and Performance Requirements [0.5 Mark]].	
	b) Service Specifications – Supply & Install Items [30 Marks]	
	[System Analysis, Design and Customization/ Development [10 Marks]; Software Customization/ Development [10 Mark]; System Integration to other existing systems [5 Marks]; Training and Training Materials [4 Mark]; Data Conversion and Migration [1 Mark]].	
	c) Testing and Quality Assurance Requirements [8 Marks]	
	[Inspections; Pre-commissioning Tests; Operational Acceptance Tests].	
	d) Service Specifications– Recurrent Cost Items [1 Marks]	
	[Warranty Defect Repair; Technical Support].	
	e) Implementation Schedule [0.5 Mark]	
	[Implementation Schedule Table; Site Table(s); Table of Holidays and Other Non-Working Days; System Inventory Tables].	
	f) System Inventory [0.5 Mark]	
	[Supply and Installation Cost Items; and Recurrent Cost Items].	
4)	Requirements of the Supplier's Technical Team [30 Marks]	30
	Total	100

The number of points to be assigned to each of the above Key Experts positions shall be determined considering the following three sub-criteria and relevant percentage weights:

Item	Criteria Description	Marks
(4)	Key Experts positions shall be determined considering the following three sub-criteria [15 Marks]	
	a) General qualifications [70 Marks]	30
	[general education, training, and experience]	
	b) Adequacy for the Contract [20 Marks]	70
	[allocated resources {project scope vs timelines; and presentation Gantt charts etc.}; document presentation {including drawings and catalogues}; and reporting]	
	c) Relevant experience in the Kenya [10 Marks]	10
	[working knowledge of administrative system, government organization, etc.]	
	Total	100

Item	Criteria Description	Marks
(3(b))	Transfer of knowledge and training program [1 Mark]	
	a) Relevance of training program [10 Marks]	70
	b) Training approach and methodology [20 Marks]	30
	c) Qualifications of experts and trainers [70 Marks]	10
	Total	100

Financial Evaluation

Tenderers who score less than the required pass mark which is 70% will be automatically disqualified. Tenderers who pass the technical evaluation will be evaluated proceed to financial evaluation.

5. Tender Evaluation (ITT 40)

Price evaluation: in addition to the criteria listed in ITT 40.1 (a)–(d) the following criteria shall apply.

i) **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 here after, including the cost of recurrent cost items for the initial period of operation stated below, based on prices furnished by each Tenderer in Price Schedule Nos. 3.3 and 3.5. 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).*

ii) **Recurrent cost items for post- warranty service period** if subject to evaluation shall be included in the main contractor a separate contract signed together with the main contract. Such costs shall be added to the Tender price for evaluation.

6. Alternative Tenders (ITT 15.1)

An alternative if permitted under ITT 15.1, will be evaluated as follows:

The Procuring Entity shall consider Tenders offered for alternatives as specified in Part 2- Procuring Entity's requirements. Only the technical alternatives, if any, of the Tenderer with the Best Evaluated Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.

7. Apply Margin of Preference

7.1. If the TDS so specifies, the Procuring Entity will grant a margin of preference of fifteen percent (15%) to be loaded on evaluated prices of the foreign tenderers, where the percentage of shareholding of Kenyan citizens is less than fifty-one percent (51%).

7.2. Contractors for such preference shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a particular contractor or group of contractors qualifies for a margin of preference.

7.3. After Tenders have been received and reviewed by the Procuring Entity, responsive Tenders shall be assessed to ascertain their percentage of shareholding of Kenyan citizens. Responsive tenders shall be classified into the following groups:

- i) Group A: tenders offered by Kenyan Contractors and other Tenderers where Kenyan citizens hold shares of over fifty one percent (51%).
- ii) Group B: tenders offered by foreign Contractors and other Tenderers where Kenyan citizens hold shares of less than fifty one percent (51%).

7.4. All evaluated tenders in each group shall, as a first evaluation step, be compared to determine the lowest tender, and the lowest evaluated tender in each group shall be further compared with each other. If, as a result of this comparison, at tender from Group A is the lowest, it shall be selected for the award. If a tender from Group B is the lowest, an amount equal to the percentage indicated in Item 3.1 of the respective tender price, including unconditional discounts and excluding provisional sums and the cost of day works, if any, shall be added to the evaluated price offered in each tender from Group B. All tenders shall then be compared using new prices with added prices to Group Band the lowest evaluated tender from Group A. If the tender from Group A is still the lowest tender, it shall be selected for award. If not, the lowest evaluated tender from Group B based on the first evaluation price shall be selected.

8. Post qualification and Contract ward (ITT 39), more specifically,

- a) In case the tender was subject to post-qualification, the contract shall be awarded to the lowest evaluated tenderer, subject to confirmation of pre-qualification data, if so required.
- b) In case the tender was not subject to post-qualification, the tender that has been determined to be the lowest evaluated tenderer shall be considered for contract award, subject to meeting each of the following conditions.
 - i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow of Kenya Shillings
 - ii) Minimum average annual construction turnover of Kenya Shillings *[insert amount]*, (**NOT APPLICABLE**) equivalent calculated as total certified payments received for contracts in progress and/ or completed within the last (**NOT APPLICABLE**) *[insert of year]* years.
 - iii) At least (**NOT APPLICABLE**) *(insert number)* of contract(s) of a similar nature executed within Kenya, or the East African Community or abroad, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or sub-contractor each of minimum value Kenya shillings (**NOT APPLICABLE**) equivalent.
 - iv) Contractor's Representative and Key Personnel, which are specified as: (**NOT APPLICABLE**)
 - v) Contractors' key equipment listed on the table "Contractor's Equipment" below and more specifically (**NOT APPLICABLE**) listed as *[specify requirements for each lot as applicable]*
 - vi) Other conditions depending on their seriousness (**NOT APPLICABLE**).

a) History of non-performing contracts:

Tenderer and each member of JV in case the Tenderer is a JV, shall demonstrate that Non-performance of a contract did not occur because of the default of the Tenderer, or the member of a JV in the last _____ (*specify years*). The required information shall be furnished in the appropriate form.

b) Pending Litigation

Financial position and prospective long-term profitability of the Single Tenderer, and in the case the Tenderer is a JV, of each member of the JV, shall remain sound according to criteria established with respect to Financial Capability under Paragraph (i) above if all pending litigation will be resolved against the Tenderer. Tenderer shall provide information on pending litigations in the appropriate form.

c) Litigation History

There shall be no consistent history of court/arbitral award decisions against the Tenderer, in the last _____ (*specify years*). All parties to the contract shall furnish the information in the appropriate form about any litigation or arbitration resulting from contracts completed or on going under its execution over the years specified. A consistent history of awards against the Tenderer or any member of a JV may result in rejection of the tender.

9. QUALIFICATION FORM

Item No.	Qualification Subject	Qualification Requirement to be met	Document To be Completed by Tenderer	For Procuring Entity's Use (Qualification met or Not Met)
1	2.1.1 Nationality	Nationality in accordance with ITT 4.5.	Form ELI – 2.1.1 and 2.1.2, with attachments	
2	Tax Obligations for Kenyan Tenderers	Has produced a current tax clearance certificate or tax exemption certificate issued by the Kenya Revenue Authority in accordance with ITT 3.14.	Form of Tender	
3	2.1.2 Conflict of Interest	No- conflicts of interests as described in ITT 4.3.	Form of Tender	
4	2.1.3 Country Ineligibility	Not having been declared ineligible by the PPRA as described in ITT 4.6.	Form of Tender	
5	2.1.4 State owned Entity of the Procuring Entity country	Compliance with conditions of ITT 4.7	Form ELI – 2.1.1 and 2.1.2, with attachments	
6	2.1.5 United Nations resolution or Kenya law	Not having been excluded as a result of prohibition in Kenya laws or official regulations against commercial relations with the Tenderer's country, or by an act of compliance with UN Security Council resolution, both in accordance with ITT 4.8	Form of Tender	
7	History of non-performing contracts	Non-performance of a contract ¹ did not occur as a result of Tenderer's default since 1 st January [<i>insert year</i>].	Form CON - 2	
8	Suspension	Not under suspension based on execution of a Tender Securing Declaration or Tender Securing Declaration pursuant to ITT 4.8 and ITT 20.10	Form of Tender	
9	Pending Litigation	Tenderer'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 Tenderer.	Form CON – 2	
10	2.3.1 Historical Financial Performance	Submission of audited balance sheets or if not required by the law of the Tenderer's country, other financial statements acceptable to the Procuring Entity, for the last ____ [] years to demonstrate the current soundness of the Tenderers financial position and its prospective long-term profitability.	Form FIN – 2.3.1 with attachments	
11	2.3.2 Average Annual Turnover	Minimum average annual turnover of _____ Kenya Shillings equivalent, calculated as total certified payments received for contracts in progress or completed, within the last () years	Form FIN –2.3.2	
12	2.3.3 Financial Resources	The Tenderer 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-	Form FIN –2.3.3	

¹ Nonperformance, as decided by the Procuring Entity, 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 Procuring Entity 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.

Item No.	Qualification Subject	Qualification Requirement to be met	Document To be Completed by Tenderer	For Procuring Entity's Use (Qualification met or Not Met)
		flow requirement: Minimum of _____ Kenya Shillings equivalent.		
13	2.4.1 General Experience	Experience under Information System contracts in the role of prime supplier, management contractor, JV member, or subcontractor for at least the last _____ [_____] years prior to the applications submission deadline.	Form EXP-2.4.1	
	2.4.2 Specific Experience	Participation as a prime supplier, management contractor, JV ² member, sub-contractor, in at least _____ (____) contracts within the last _____ (____) years, each with a value of at least _____ (____), that have been successfully and substantially completed and that are similar to the proposed Information System. <i>[Specify minimum key requirements in terms of physical size, complexity, methods, technology and/or other characteristics from those described in Section VII, Procuring Entity's Requirements]</i>	Form EXP 2.4.2	

² For contracts under which the Tenderer participated as a joint venture member or sub-contractor, only the Tenderer's share, by value, and role and responsibilities shall be considered to meet this requirement.

10. Personnel

The Tenderer must demonstrate that it will have the personnel for the key positions that meet the following requirements:

No.	Position	Information System Experience <i>[Specify specific experience requirement for the key positions]</i>
1		
2		
3		
...		

The Tenderer shall provide details of the proposed personnel and their experience records in the relevant Forms included in Section IV, Tendering Forms.

11. Subcontractors/vendors/manufacturers

Subcontractors/vendors/manufacturers for the following 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		
2		
3		
...		

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

In the case of a Tenderer who offers to supply and install major items of supply under the contract that the Tenderer did not manufacture or otherwise produce, the Tenderer shall provide the manufacturer’s authorization, using the form provided in Section IV, showing that the Tenderer has been duly authorized by the manufacturer or producer of the related sub system or component to supply and install that item in Kenya. The Tenderer is responsible for ensuring that the manufacturer or producer complies with the requirements of ITT 4 and 5 and meets the minimum criteria listed above for that item.

SECTION IV - TENDERING FORMS

1. FORM OF TENDER

(Amended and issued pursuant to PPRA CIRCULAR No. 02/2022)

INSTRUCTIONS TO TENDERERS

i) All italicized text is to help the Tenderer in preparing this form.

ii) The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address. Tenderers are reminded that this is a mandatory requirement.

iii) Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION FORMS OF THE TENDERER as listed under (s) below.

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

Name and Identification:.....[insert identification] **Alternative**

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

To: [Insert complete name of Procuring Entity]

- a) **No reservations:** We have examined and have no reservations to the tendering document, including Addenda issued in accordance with Instructions to Tenderers (ITT 8);
- b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITT 4;
- c) **Tender-Securing Declaration:** We have not been debarred by the Authority based on execution of a Tender- Securing Declaration or Tender Securing Declaration in Kenya in accordance with ITT 4.8;
- d) **Conformity:** We offer to provide design, supply and installation services in conformity with the tendering document of the following: [insert a brief description of the IS Design, Supply and Installation Services];
- e) **Tender Price:** The total price of our Tender, excluding any discounts offered in item (f) 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 Tender 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];

- (f) **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];
- g) **Tender Validity Period:** Our Tender shall be valid for the period specified in TDS ITT 19.1 (as amended if applicable) from the date fixed for the Tender submission deadline (specified in TDS ITT 23.1 (as amended if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

- h) **Performance Security:** If our Tender is accepted, we commit to obtain a Performance Security in accordance with the tendering document;
- i) **One Tender per Tenderer:** We are not submitting any other Tender (s) as an individual Tenderer, and we are not participating in any other Tender (s) as a Joint Venture member, and meet the requirements of ITT 4.3, other than alternative Tenders submitted in accordance with ITT 13;
- j) **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the PPRA. Further, we are not in eligible under Laws of Kenya or official regulations or pursuant to a decision of the United Nations Security Council;
- k) **State-owned enterprise or institution:** *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution]/ [We are a state-owned enterprise or institution but meet the requirements of ITT 4.7];*
- l) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Tendering process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount

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

- m) **Binding Contract:** We understand that this Tender, together with your written acceptance thereof included in your Form of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- n) **Not Bound to Accept:** We understand that you are not bound to accept the lowest evaluated cost Tender, the Best Evaluated Tender or any other Tender that you may receive; and
- o) **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 Tenderer: **[insert complete name of person signing the Tender]*

- p) **Collusive practices:** We hereby certify and confirm that the tender is genuine, non-collusive and made with the intention of accepting the contract if awarded. To this effect we have signed the “Certificate of Independent Tender Determination” attached below.
- q) **Code of Ethical Conduct:** We undertake to adhere by the Code of Ethical Conduct for Persons Participating in Public Procurement and Asset Disposal Activities in Kenya, copy available from www.pppra.go.ke during the procurement process and the execution of any resulting contract.
- r) **Beneficial Ownership Information:** We commit to provide to the procuring entity the Beneficial Ownership Information in conformity with the Beneficial Ownership Disclosure Form upon receipt of notification of intention to enter into a contract in the event we are the successful tenderer in this subject procurement proceeding.
- s) We, the Tenderer, have duly completed, signed and stamped the following Forms as part of our Tender:
- i) Tenderer's Eligibility; Confidential Business Questionnaire – to establish we are not in any conflict to interest.
 - ii) Certificate of Independent Tender Determination – to declare that we completed the tender without colluding with other tenderers.
 - iii) Self-Declaration of the Tenderer–to declare that we will, if awarded a contract, not engage in any form of fraud and corruption.

- iv) Declaration and commitment to the code of ethics for Persons Participating in Public Procurement and Asset Disposal Activities in Kenya. Further, we confirm that we have read and understood the full content and scope of fraud and corruption as in formed in “**Appendix1-Fraud and Corruption**” attached to the Form of Tender.

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

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

(1) **TENDERER'S ELIGIBILITY-CONFIDENTIAL BUSINESS QUESTIONNAIRE**

Instruction to Tenderer

Tender is instructed to complete the particulars required in this Form, *one form for each entity if Tender is a JV*. Tenderer is further reminded that it is an offence to give false information on this Form.

a) Tenderer's details

	ITEM	DESCRIPTION
1	Name of the Procuring Entity	
2	Reference Number of the Tender	
3	Date and Time of Tender Opening	
4	Name of the Tenderer	
5	Full Address and Contact Details of the Tenderer.	1. Country 2. City 3. Location 4. Building 5. Floor 6. Postal Address 7. Name and email of contact person.
6	Current Trade License Registration Number and Expiring date	
7	Name, country and full address (<i>postal and physical addresses, email, and telephone number</i>) of Registering Body/Agency	
8	Description of Nature of Business	
9	Maximum value of business which the Tenderer handles.	
10	State if Tenders Company is listed in stock exchange, give name and full address (<i>postal and physical addresses, email, and telephone number</i>) of state which stock exchange	

General and Specific Details

b) **Sole Proprietor**, provide the following details.

Name in full _____ Age _____
 Nationality _____ Country of Origin _____
 Citizenship _____

c) **Partnership**, provide the following details.

	Names of Partners	Nationality	Citizenship	% Shares owned
1				
2				
3				

d) **Registered Company**, provide the following details.

(i) Private or public Company _____

(ii) State the nominal and issued capital of the Company

Nominal Kenya Shillings (Equivalent).....
 Issued Kenya Shillings (Equivalent).....

(iii) Give details of Directors as follows.

	Names of Director	Nationality	Citizenship	% Shares owned
1				
2				
3				

e) **DISCLOSURE OF INTEREST - Interest of the Firm in the Procuring Entity.**

i) are there any person/persons in..... (*Name of Procuring Entity*) who has/have an interest or relationship in this firm? Yes/ No.....

If yes, provide details as follows.

	Names of Person	Designation in the Procuring Entity	Interest or Relationship with Tenderer
1			
2			
3			

ii) Conflict of interest disclosure

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
1	Tenderer is directly or indirectly controls, is controlled by or is under common control with another tenderer.		
2	Tenderer receives or has received any direct or indirect subsidy from another tenderer.		
3	Tenderer has the same legal representative as another tenderer		
4	Tenderer has a relationship with another tenderer, directly or through common third parties, that puts it in a position to influence the tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering process.		
5	Any of the Tenderer's affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the tender.		
6	Tenderer would be providing goods, works, non-consulting services or consulting services during implementation of the contract specified in this Tender Document.		
7	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract.		
8	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who would be involved in the implementation or supervision of the such Contract.		
9	Has the conflict stemming from such relationship stated in item 7 and 8 above been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.		

f) Certification

On behalf of the Tenderer, I certify that the information given above is complete, current and accurate as at the date of submission.

Full Name _____

Title or Designation _____

(Signature)

(Date)

1) CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

I, the undersigned, in submitting the accompanying Letter of Tender to the _____ [Name of Procuring Entity] for: _____ [Name and number of tenders] in response to the request for tenders made by: _____ [Name of Tenderer] do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of _____ [Name of Tenderer] that:

- i). I have read and I understand the contents of this Certificate;
- ii). I understand that the Tender will be disqualified if this Certificate is found not to be true and complete in every respect;
- iii). I am the authorized representative of the Tenderer with authority to sign this Certificate, and to submit the Tender on behalf of the Tenderer;
- iv). For the purposes of this Certificate and the Tender, I understand that the word “competitor” shall include any individual or organization, other than the Tenderer, whether or not affiliated with the Tenderer, who:
 - a) Has been requested to submit a Tender in response to this request for tenders;
 - b) could potentially submit a tender in response to this request for tenders, based on their qualifications, abilities or experience;
- v). The Tenderer discloses that [check one of the following, as applicable]:
 - a) The Tenderer has arrived at the Tender independently from, and without consultation, communication, agreement or arrangement with, any competitor;
 - b) the Tenderer has entered into consultations, communications, agreements or arrangements with one or more competitors regarding this request for tenders, and the Tenderer discloses, in the attached document(s), complete details thereof, including the names of the competitors and the nature of, and reasons for, such consultations, communications, agreements or arrangements;
- vi). In particular, without limiting the generality of paragraphs (5) (a) or (5) (b) above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - a) prices;
 - b) methods, factors or formulas used to calculate prices;
 - c) the intention or decision to submit, or not to submit, a tender; or
 - d) the submission of a tender which does not meet the specifications of the request for Tenders; except as specifically disclosed pursuant to paragraph (5) (b) above;
- vii). In addition, there has been no consultation, communication, agreement or arrangement with any competitor regarding the quality, quantity, specifications or delivery particulars of the works or services to which this request for tenders relates, except as specifically authorized by the procuring authority or as specifically disclosed pursuant to paragraph (5) (b) above;
- viii). The terms of the Tender have not been, and will not be, knowingly disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening, or of the awarding of the Contract, whichever comes first, unless otherwise required by law or as specifically disclosed pursuant to paragraph(5)(b) above.

Name _____

Title _____

Date _____

[Name, title and signature of authorized agent of Tenderer and Date]

3) SELF-DECLARATION FORMS

FORM SD1

SELF DECLARATION THAT THE PERSON/ TENDERER IS NOT DEBARRED IN THE MATTER OF THE PUBLIC PROCUREMENT AND ASSET DISPOSAL ACT 2015.

I,, of Post Office Box being a resident of in the Republic of do hereby make a statement as follows: -

1. THAT I am the Company Secretary/ Chief Executive/Managing Director/Principal Officer/Director of (*insert name of the Company*) who is a Bidder in respect of **Tender No.....** for..... (*insert tender title/description*) for..... (*insert name of the Procuring entity*) and duly authorized and competent to make this statement.
2. THAT the aforesaid Bidder, its Directors and subcontractors have not been debarred from participating in procurement proceeding under Part IV of the Act.
3. THAT what is deponed to here in above is true to the best of my knowledge, information and belief.

.....
(Title)

.....
(Signature)

.....
(Date)

Bidder Official Stamp

FORM SD2

SELF DECLARATION THAT THE PERSON/TENDERER WILL NOT ENGAGE IN ANY CORRUPT OR FRAUDULENT PRACTICE

I,of P. O. Box..... being a resident of in the Republic of.....do hereby make a statement as follows: -

1. THAT I am the Chief Executive /Managing Director/ Principal Officer/ Director of.....
..... (*insert name of the Company*) who is a Bidder in respect of **Tender No.**
..... for (*insert tender title/description*) for (*insert name of the Procuring entity*) and duly authorized and competent to make this statement.

2. THAT the aforesaid Bidder, its servants and/or agents /subcontractors will not engage in any corrupt or fraudulent practice and has not been requested to pay any inducement to any member of the Board, Management, Staff and /or employees and /or agents of..... (*insert name of the Procuring entity*) which is the procuring entity.

3. THAT the aforesaid Bidder, its servants and /or agents /subcontractors have not offered any inducement to any member of the Board, Management, Staff and/ or employees and/ or agents of..... (*name of the procuring entity*).

4. THAT the aforesaid Bidder will not engage /has not engaged in any corrosive practice with other bidders participating in the subject tender

5. THAT what is deponed to here in above is true to the best of my knowledge information and belief.

.....
(Title)

.....
(Signature)

.....
(Date)

Bidder Official Stamp

DECLARATION AND COMMITMENT TO THE CODE OF ETHICS

I (person) on behalf of *(Name of the Business/Company/Firm)* declare that I have read and fully understood the contents of the Public Procurement & Asset Disposal Act, 2015, Regulations and the Code of Ethics for persons participating in Public Procurement and Asset Disposal activities in Kenya and my responsibilities under the Code.

I do hereby commit to abide by the provisions of the Code of Ethics for persons participating in Public Procurement and Asset Disposal.

Name of Authorized signatory.....

Sign.....

Position.....

Office address..... Telephone.....

E-mail.....

Name of the Firm/Company.....

Date.....

(Company Seal/ Rubber Stamp where applicable)

Witness

Name.....

Sign.....

Date.....

4) **APPENDIX 1 - FRAUD AND CORRUPTION**

(Appendix 1 shall not be modified)

1. Purpose

1.1 The Government of Kenya's Anti-Corruption and Economic Crime laws and their sanction's policies and procedures, Public Procurement and Asset Disposal Act, 2015 (the Act) and the Public Procurement and Asset Regulations, 2020 (the Regulations) and any other relevant Kenya's Acts or Regulations related to Fraud and Corruption, and similar offences, shall apply with respect to Public Procurement Processes and Contracts that are governed by the laws of Kenya.

2. Requirements

2.1 The Government of Kenya requires that all parties including Procuring Entities, Tenderers, (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, involved and engaged in procurement under Kenya's Laws and Regulation, observe the highest standard of ethics during the procurement process, selection and contract execution of all contracts, and refrain from Fraud and Corruption and fully comply with Kenya's laws and Regulations as per paragraphs 1.1 above.

2.2 Section 66 of the Act describes rules to be followed and actions to be taken in dealing with Corrupt, Coercive, Obstructive, Collusive or Fraudulent practices, and Conflicts of Interest in procurement including consequences for offences committed. A few of the provisions noted below high light Kenya's policy of no tolerance for such practices and behavior:

- i) A person to whom this Act applies shall not be involved in any corrupt, coercive, obstructive, collusive or fraudulent practice; or conflicts of interest in any procurement or asset disposal proceeding;
- ii) A person referred to under subsection (1) who contravenes the provisions of that sub-section commits an offence;
- iii) Without limiting the generality of the subsection (1) and (2), the person shall be: -
 - a) disqualified from entering into a contract for a procurement or asset disposal proceeding; or
 - b) if a contract has already been entered into with the person, the contract shall be voidable;
- iv) The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedy the procuring entity may have;
- v) An employee or agent of the procuring entity or a member of the Board or committee of the procuring entity who has a conflict of interest with respect to a procurement: -
 - a) Shall not take part in the procurement proceedings;
 - b) shall not, after a procurement contract has been entered into, take part in any decision relating to the procurement or contract; and
- c) shall not be a subcontractor for the tenderer to whom was awarded contract, or a member of the group of tenderers to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.
- vi) An employee, agent or member described in subsection (1) who refrains from doing anything prohibited under that subsection, but for that subsection, would have been within his or her duties shall disclose the conflict of interest to the procuring entity;
- vii) If a person contravenes sub section (1) with respect to a conflict of interest described in sub section (5) (a) and the contract is awarded to the person or his relative or to another person in whom one of them had a direct or indirect pecuniary interest, the contract shall be terminated and all costs incurred by the public entity shall be made good by the awarding officer. Etc.

2.2 In compliance with Kenya's laws, regulations and policies mentioned above, the Procuring Entity:

- a) Defines broadly, for the purposes of the above provisions, the terms:
 - 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;
- 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:
 - 1) Deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede investigation by Public Procurement Regulatory Authority (PPRA) or any other appropriate authority appointed by Government of Kenya 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
 - 2) acts intended to materially impede the exercise of the PPRA's or the appointed authority's inspection and audit rights provided for under paragraph 2.3e. below.
- b) Defines more specifically, in accordance with the Act, provisions set forth for fraudulent and collusive practices as follows:

"fraudulent practice" includes a misrepresentation of fact in order to influence a procurement or disposal processor the exercise of a contract to the detriment of the procuring entity or the tenderer or the contractor, and includes collusive practices amongst tenderers prior to or after tender submission designed to establish tender prices at artificial non-competitive levels and to deprive the procuring entity of the benefits of free and open competition.
- c) Rejects a proposal for award¹ of a contract if PPRA 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;
- d) Pursuant to the Act and the Regulations, the Procuring Entity may recommend to PPRA for sanctioning and debarment of a firm or individual, as applicable under the Act and the Regulations;
- e) Requires that a clause be included in the tender documents and Request for Proposal documents requiring (i) Tenderers (applicants/proposers), Consultants, Contractors, and Suppliers, and their Sub-contractors, Sub-consultants, Service providers, Suppliers, Agents personnel, permit the PPRA or any other appropriate authority appointed by Government of Kenya to inspect²all 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 PPRA or any other appropriate authority appointed by Government of Kenya; and
- f) Pursuant to Section 62 of the Act, requires Applicants/Tenderers to submit along with their Applications/Tenders/Proposals a “Self-Declaration Form” as included in the procurement document declaring that they and all parties involved in the procurement process and contract execution have not engaged/ will not engage in any corrupt or fraudulent practices.

¹For the avoidance of doubt, a party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in A consultancy, and tendering, 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.

²Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Investigating Authority or persons appointed by the Procuring Entity 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 there of 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 there of as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

PRICE SCHEDULE FORMS

Notes to Tenderers on working with the Price Schedules

1.1 General

The Price Schedules are divided into separate Schedules as follows:

- a Grand Summary Cost Table
- b Supply and Installation Cost Summary Table
- c Recurrent Cost Summary Table
- d Supply and Installation Cost Sub-Table (s)
- e Recurrent Cost Sub-Tables (s)
- f Country of Origin Code Table

[insert:]

- 1.2 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 Tenderers shall have read the Technical Requirements and other sections of these tendering 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.
- 1.3 If Tenderers are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with the Instructions to Tenderers in the tendering documents prior to submitting their tender.

2. Pricing

- 2.1 Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Tenderer. As specified in the Tender Data Sheet, prices shall be fixed and firm for the duration of the Contract.
- 2.2 Tender prices shall be quoted in the manner indicated and, in the currencies, specified in ITT 18.1 and ITT 18.2. Prices must correspond to items of the scope and quality defined in the Technical Requirements or elsewhere in these tendering documents.
- 2.3 The Tenderer must exercise great care in preparing its calculations, since there is no opportunity to correct errors once the deadline for submission of tenders has passed. A single error in specifying a unit price can therefore change a Tenderer's overall total tender price substantially, make the tender noncompetitive, or subject the Tenderer to possible loss. The Procuring Entity will correct any arithmetic error in accordance with the provisions of ITT 32.
- 2.4 Payments will be made to the Supplier in the currency or currencies indicated under each respective item. As specified in ITT18.2, no more than two foreign currencies may be used.

1. Grand Summary Cost Table

		<i>[insert: Kenya shillings] Price</i>	<i>[insert: Foreign Currency A] Price</i>	<i>[insert: Foreign Currency B] Price</i>
1.	Supply and Installation Costs (from Supply and Installation Cost Summary Table)			
2.	Recurrent Costs (from Recurrent Cost Summary Table)			
3.	Grand Totals (to Tender Submission Form)			

Name of Tenderer: _____

_____ Date _____

Authorized Signature of Tenderer:

2. Supply and Installation Cost Summary Table

Line Item No.	Subsystem / Item	Supply and Installation Cost Sub-Table No.	Costs MUST reflect prices and rates quoted in accordance with ITTI7 and		
			<i>[insert: Kenya shillings] Price</i>	<i>[insert: Local Currency] Price</i>	<i>[insert: Foreign Currency A] Price</i>
1	Project Plan	- -			
2	Subsystem 1				
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 Tenderer: _____

_____ Date _____

Authorized Signature of Tenderer:

3. Recurrent Cost Summary Table

Costs MUST reflect prices and rates quoted in accordance with ITT 17 and ITT18.

Line Item No.	Subsystem / Item	Recurrent Cost Sub-Table No.	<i>[insert: Kenya shilling/ Price</i>	<i>[insert: Foreign Currency A] Price</i>	<i>[insert: Foreign Currency B] Price</i>
	Subtotals (to Grand Summary Table)				

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

Name of Tenderer: _____

Date _____

Authorized Signature of Tenderer: _____

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 (such as 1.1)]*

Prices, rates, and subtotals MUST be quoted in accordance with ITT 17 and ITT18.

				Unit Prices / Rates				Total Prices			
				Supplied Locally	Supplied from outside Kenya			Supplied Locally		Supplied from outside Kenya	
Component No.	Component Description	Country of Origin Code	Quantity	<i>[insert: local currency]</i>	<i>[insert: local currency]</i>	<i>[insert: foreign currency A]</i>	<i>[insert: foreign currency B]</i>	<i>[insert: local currency]</i>	<i>[insert: local currency]</i>	<i>[insert: foreign currency A]</i>	<i>[insert: foreign currency B]</i>
X.1		--	--	--	--	--	--				
Subtotals (to <i>[insert: line item]</i> of Supply and Installation Cost Summary Table)											

Note: -- indicates not applicable

Name of Tenderer: _____

_____ Date _____

Authorized Signature of Tenderer: _____

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– (such as 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 ITT 17 and ITT18.

Component No.	Component	Maximum all-inclusive costs (for costs in [insert: currency])						Sub-total for [insert: currency]
		Y1	Y2	Y3	Y4	...	Yn	
1.	Hardware Maintenance	Incl. in Warranty	Incl. in Warranty	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							
3.3	Sr. Network Specialist, etc.							
4.	Telecommunications costs [to be detailed]							
5.	[Identify other recurrent costs as may apply]							
	Annual Subtotals:							--
Cumulative Subtotal (to [insert: currency] entry for [insert: line item] in the Recurrent Cost Summary Table)								

Name of Tenderer: _____ Date _____

Authorized Signature of Tenderer: _____

QUALIFICATION FORMS

1. FOREIGN TENDERERS 40% RULE

Pursuant to ITT 4.11, a foreign tenderer must complete this form to demonstrate that the tender fulfils this condition.

ITEM	Description of Work Item	Describe location of Source	COST in K. shillings	Comments, if any
A	Local Labor			
1				
2				
3				
4				
5				
B	Sub contracts from Local sources			
1				
2				
3				
4				
5				
C	Local materials			
1				
2				
3				
4				
5				
D	Use of Local Plant and Equipment			
1				
2				
3				
4				
5				
E	Add any other items			
1				
2				
3				
4				
5				
6				
	TOTAL COST LOCAL CONTENT		XXXXX	
	PERCENTAGE OF CONTRACT PRICE		XXXXXX	

2 Form ELI-1 Tenderer Information Form

[The Tenderer 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 Tender submission]*

ITT No.:*[insert number of Tendering process]*

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

1. Tenderer's Name <i>[insert Tenderer's legal name]</i>
2. In case of JV, legal name of each member: <i>[insert legal name of each member in JV]</i>
3. Tenderer's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Tenderer's year of registration: <i>[insert Tenderer's year of registration]</i>
5. Tenderer's Address in country of registration: <i>[insert Tenderer's legal address in country of registration]</i>
6. Tenderer's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITT 4.4. <input type="checkbox"/> In case of JV, Form of intent to form JV or JV agreement, in accordance with ITT 4.1. <input type="checkbox"/> In case of state-owned enterprise or institution, in accordance with ITT 4.6 documents establishing: <ul style="list-style-type: none"> • Legal and financial autonomy • Operation under commercial law • Establishing that the Tenderer is not under the supervision of the Procuring Entity <input type="checkbox"/> Included are the organizational chart and a list of Board of Directors.

3 Form ELI-1 Tenderer's JV Members Information Form

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

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

ITT No.:*[insert number of Tendering process]*

Alternative No.:*[insert identification No if this is a Tender for an*

alternative] Page _____ of _____ pages

1. Tenderer's Name: <i>[insert Tenderer's legal name]</i>
2. Tenderer's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Tenderer's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Tenderer's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Tenderer's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
6. Tenderer's JV Member's authorized representative information Name: <i>[insert name of JV's Member authorized representative]</i> Address: <i>[insert address of JV's Member authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i> Email Address: <i>[insert email address of JV's Member authorized representative]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITT 4.4. <input type="checkbox"/> In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and they are not under the supervision of the Procuring Entity in accordance with ITT 4.6. <input type="checkbox"/> Included are the organizational chart and a list of Board of Directors

4. Form CON-1 Historical Contract Non-Performance and Pending Litigation.

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

Tenderer's Legal Name: _____ Date: _____

JV member Legal Name: _____

ITT No.: _____

Age of _____ pages

Non-Performing Contracts in accordance with Section III, Evaluation and Qualification Criteria

Contract non-performance did not occur during the stipulated period, in accordance with Sub-Factor 2.2.1 of Section III, Evaluation Criteria

Pending Litigation, in accordance with Section III, Evaluation and Qualification Criteria

No pending litigation in accordance with Sub-Factor 2.2.3 of Section III, Evaluation Criteria

Pending litigation in accordance with Sub-Factor 2.2.3 of Section III, Evaluation Criteria, as indicated below

Year	Outcome as Percent of Total Assets	Contract Identification	Total Contract Amount (current value, US\$ equivalent)
_____	_____	Contract Identification: Name of Procuring Entity: Address of Procuring Entity: Matter in dispute:	_____
_____	_____	Contract Identification: Name of Procuring Entity: Address of Procuring Entity: Matter in dispute:	_____

5. Form EXP - 1 Experience – General Experience

Tenderer's Legal Name: _____ Date: _____

JV Member Legal Name: _____ ITT No.: _____

Page _____ of _____ pages

Starting Month / Year	Ending Month / Year	Years*	Contract Identification	Role of Tenderer
_____	_____	_____	Contract name: Brief Description of the Information System performed by the Tenderer: Name of Procuring Entity: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Information System performed by the Tenderer: Name of Procuring Entity: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Information System performed by the Tenderer: Name of Procuring Entity: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Information System performed by the Tenderer: Name of Procuring Entity: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Information System performed by the Tenderer: Name of Procuring Entity: Address:	_____
_____	_____	_____	Contract name: Brief Description of the Information System performed by the Tenderer: Name of Procuring Entity: Address:	_____

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

6. Form EXP – 2 Specific Experience

Tenderer's Legal Name: _____
 JV Member Legal Name: _____

Date: _____
 ITT No.: _____

Page _____ of _____ pages

Similar Contract Number: ___ of ___ required.	Information		
Contract Identification	_____		
Award date	_____		
Completion date	_____		
Role in Contract	<input type="checkbox"/> Prime Supplier	<input type="checkbox"/> Management Contractor	<input type="checkbox"/> Subcontractor
Total contract amount	_____	US\$ _____	
If member in a JV or subcontractor, specify participation of total contract amount	_____ %	_____	US\$ _____
Procuring Entity's Name:	_____		
Address:	_____ _____		
Telephone/fax number:	_____		
E-mail:	_____		

7. Form EXP – 2 (cont.) Specific Experience (cont.)

Tenderer's Legal Name: _____
 JV Member Legal Name: _____

Page _____ of _____ pages

Similar Contract No. __ [insert specific number] of [total number of contracts] __ required	Information		
Description of the similarity in accordance with Sub-Factor 2.4.2 of Section III:	_____		
Amount	_____		
Physical size	_____		
Complexity	_____		
Methods/Technology	_____		
Key Activities	_____		

8. Form CCC-1 Summary Sheet: Current Contract Commitments/ Work in Progress

Name of Tenderer or partner of a Joint Venture. _____

Tenderers and each partner to a Joint Venture tender should provide information on their current commitments on all contracts that have been awarded, or for which a Form 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

Name of contract	Procuring Entity, contact address/tel./fax	Value of outstanding Information System (current US\$ equivalent)	Estimated completion date	Average monthly invoicing over last six months (US\$/month)
1.				
2.				
3.				
4.				
5.				
etc.				

9. Form FIN – 1 Financial Situation

Historical Financial Performance

Tenderer's Legal Name: _____ Date: _____

JV Member Legal Name: _____ ITT No. _____

Page _____ of _____ pages

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

Financial information in US\$ equivalent	Historic information for previous _____ () years (US\$ equivalent in 000s)						
	Year 1	Year 2	Year 3	Year ...	Year n	Avg.	Avg. Ratio
Information from Balance Sheet							
Total Assets (TA)							
Total Liabilities (TL)							
Net Worth (NW)							
Current Assets (CA)							
Current Liabilities (CL)							
Information from Income Statement							
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 Tenderer 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).

10. Form FIN –2 Average Annual Turnover

Tenderer's Legal Name: _____ Date: _____

JV Member Legal Name: _____ ITT No.: _____

Page _____ of _____ pages

Annual turnover data (applicable activities only)		
Year	Amount and Currency	US\$ equivalent
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
*Average Annual Turnover	_____	_____

*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 2.3.2.

11. Form F-3 Financial Resources

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.	
2.	
3.	
4.	

12. Personnel Capabilities

i) Key Personnel

Name of Tenderer or partner of a Joint Venture

Tenderers 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.

1.	Title of position: ...	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
2.	Title of position: ...	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
3.	Title of position: ...	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
4.	Title of position:	
	Name of candidate	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
6...	Title of position:	
	Name of candidate	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>

ii) Candidate Summary

Position		Candidate <input type="checkbox"/> Prime <input type="checkbox"/> Alternate	
Candidate information	Name of candidate	Date of birth	
	Professional qualifications		
Present employment	Name of Employer		
	Address of Employer		
	Telephone	Contact (manager / personnel officer)	
	Fax	Email	
	Job title of candidate	Years with present Employer	

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

From	To	Company/Project/ Position/Relevant technical and management experience

(iv) Technical Capabilities

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

(v) Manufacturer's Authorization

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

Invitation for Tenders Title and No.: _____ [Procuring Entity insert: **ITT Title and Number**]

To: _____ [Procuring Entity insert: **Procuring Entity'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 here by authorize _____ [insert: **name of Tenderer or Joint Venture**] located at _____ [insert: **address of Tenderer or Joint Venture**] (hereinafter, the "Tenderer") to submit a tender 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 tendering results in a Contract between you and the Tenderer, 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 authorization for and on behalf of: _____ [insert: **Name of Manufacturer**]

Dated this _____ [insert: **ordinal**] day of _____ [insert: **month**], [insert: **year**]. [add Corporate Seal

(where appropriate)]

(vi) Subcontractor's Agreement

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

Invitation for Tenders Title and No.: _____ [Procuring Entity insert: **ITT Title and Number**]
 To: _____ [Procuring Entity insert: **Procuring Entity's Officer to receive the Subcontractor's Agreement**]
 WHERE AS [insert: **Name of Subcontractor**], having head offices at _____ [insert: **address of Subcontractor**], have been informed by _____ [insert: **name of Tenderer or Joint Venture**] located at _____ [insert: **address of Tenderer or Joint Venture**] (here in after, the "Tenderer") that it will submit a tender 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 Tenderer 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)]

vi) List of Proposed Subcontractors

Item	Proposed Subcontractor	Place of Registration & Qualifications

13. Intellectual Property Forms

Notes to Tenderers on working with the Intellectual Property

Forms

In accordance with ITT 11.1(j), Tenderers must submit, as part of their tenders, lists of all the Software included in the tender assigned to one of the following categories: (A) System, General-Purpose, or Application Software; or (B) Standard or Custom Software. Tenderers must also submit a list of all Custom Materials. These categorizations are needed to support the Intellectual Property in the GCC and SCC.

i) Software List

Software Item	(select one per item)			(select one per item)	
	System Software	General-Purpose Software	Application Software	Standard Software	Custom Software

14. Conformance of Information System Materials

D) Format of the Technical Tender

In accordance with ITT 16.2, the documentary evidence of conformity of the Information System to the tendering documents includes (but is not restricted to):

- a) The Tenderer's Preliminary Project Plan, including, but not restricted, to the topics specified in the TDS ITT 16.2. The Preliminary Project Plan should also state the Tenderer's assessment of the major responsibilities of the Procuring Entity and any other involved third parties in System supply and installation, as well as the Tenderer's proposed means for coordinating activities by each of the involved parties to avoid delays or interference.
- b) A written confirmation by the Tenderer 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 tender, the Tenderer must use the Technical Responsiveness Checklist (Format). Failure to do so increases significantly the risk that the Tenderer's Technical Tender 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 Tenderer's Technical Tender.

Note: The Technical Requirements are voiced as requirements of the *Supplier* and/or the *System*. The Tenderer'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 Tenderer should indicate *that*—and to the greatest extent practical—*how* the Tenderer would comply with the requirements if awarded the contract. Whenever the technical requirements relate to feature(s) of existing products (such as hardware or software), the features should be described and the relevant product literature referenced. When the technical requirements relate to professional services (such as 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 (such as ISO9001), copies of these certifications must be included in the Technical Tender.

Note: The Manufacture's Authorizations (and any Subcontractor Agreements) are to be included in Attachment 2 (Tenderer Qualifications), in accordance with and ITT 15.

Note: As a matter of practice, the contract cannot be awarded to a Tenderer whose Technical Tender deviates (materially) from the Technical Requirements – *on any Technical Requirement*. Such deviations include omissions (such as 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 (such as product literature, white-papers, narrative descriptions of technical approaches to be employed, etc.). In the interest of timely tender evaluation and contract award, Tenderers are encouraged not to overload the supporting materials with documents that do not directly address the Procuring Entity's requirements.
- e) Any separate and enforceable contract(s) for Recurrent Cost items which the TDSITT17.2 required Tenderers to tender.

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

ii) Technical Responsiveness Checklist (Format)

Tech. Require. No.	Technical Requirement: <i>[insert: abbreviated description of Requirement]</i>
Tenderer's technical reasons supporting compliance:	
Tenderer's cross references to supporting information in Technical Tender:	

FORM OF TENDER SECURITY-[Option 1-Demand Bank Guarantee]

Beneficiary: _____

Request for Tenders No: _____

Date: _____

TENDER GUARANTEE No.: _____

Guarantor: _____

1. We have been informed that _____ (here inafter called "the Applicant") has submitted or will submit to the Beneficiary its Tender (here inafter called" the Tender") for the execution of _____ under Request for Tenders No. _____ ("the ITT").
2. Furthermore, we understand that, according to the Beneficiary's conditions, Tenders must be supported by a Tender guarantee.

3. At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:
 - (a) has withdrawn its Tender during the period of Tender validity set forth in the Applicant's Letter of Tender ("the Tender Validity Period"), or any extension thereto provided by the Applicant; or
 - b) having been notified of the acceptance of its Tender by the Beneficiary during the Tender Validity Period or any extension there to provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the Performance.
4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii) thirty days after the end of the Tender Validity Period.
5. Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

[signature(s)]

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

FORMAT OF TENDER SECURITY [Option 2–Insurance Guarantee]

TENDER GUARANTEE No.: _____

1. Whereas [*Name of the tenderer*] (hereinafter called “the tenderer”) has submitted its tender dated [*Date of submission of tender*] for the [*Name and/or description of the tender*] (hereinafter called “the Tender”) for the execution of _____ under Request for Tenders No. _____ (“the ITT”).
2. KNOW ALL PEOPLE by these presents that WE of [**Name of Insurance Company**] having our registered office at (hereinafter called “the Guarantor”), are bound unto [*Name of Procuring Entity*] (hereinafter called “the Procuring Entity”) in the sum of (Currency and guarantee amount) for which payment well and truly to be made to the said Procuring Entity, the Guarantor binds itself, its successors and assigns, jointly and severally, firmly by these presents.
Sealed with the Common Seal of the said Guarantor this ___ day of _____ 20 __.
3. NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Applicant:
 - a) has withdrawn its Tender during the period of Tender validity set forth in the Principal's Letter of Tender (“the Tender Validity Period”), or any extension thereto provided by the Principal; or
 - b) having been notified of the acceptance of its Tender by the Procuring Entity during the Tender Validity Period or any extension thereto provided by the Principal; (i) failed to execute the Contract agreement; or (ii) has failed to furnish the Performance Security, in accordance with the Instructions to tenderers (“ITT”) of the Procuring Entity's Tendering document.then the guarantee undertakes to immediately pay to the Procuring Entity up to the above amount upon receipt of the Procuring Entity's first written demand, without the Procuring Entity having to substantiate its demand, provided that in its demand the Procuring Entity shall state that the demand arises from the occurrence of any of the above events, specifying which event(s) has occurred.
4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii) twenty-eight days after the end of the Tender Validity Period.
5. Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

[Date]

[Signature of the Guarantor]

[Witness]

[Seal]

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

TENDER - SECURING DECLARATION FORM {r 46 and 155(2)}

[The Bidder shall complete this Form in accordance with the instructions indicated] Date:

[insert date (as day, month and year) of Tender Submission]

Tender No.: [insert number of tendering process]

To: [insert complete name of Purchaser] I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Tender-Securing Declaration.
2. I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation (s) under the bid conditions, because we—(a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.
3. I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of:
 - a) Our receipt of a copy of your notification of the name of the successful Tenderer; or
 - b) thirty days after the expiration of our Tender.
4. I/We understand that if I am/ we are/ in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.

Signed:

Capacity / title (director or partner or sole proprietor, etc.)

Name:

Duly authorized to sign the bid for and on behalf of: _____ [insert complete name of Tenderer] Dated

on..... day of..... [Insert date of signing]

Seal or stamp

PART 2 – PROCURING ENTITY'S REQUIREMENTS

SECTION V - REQUIREMENTS OF THE INFORMATION SYSTEM

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

1. Technical Requirements

A. Acronyms Used in Technical Requirements

<u>No</u>	<u>Term</u>	<u>Explanation</u>
1.	ASHRAE	- American Society of Heating, Refrigerating and Air-Conditioning Engineers
2.	ATS	- automatic transfer switch
3.	BMS	- Building Management System (Rack cabinet)
4.	BMS	- Battery Management System (UPS)
5.	CCU	- Close-Control Unit
6.	CE	- Conformité Européenne (European Conformity)
7.	COP	- Coefficient of Performance
8.	CRAC	- Computer Room Air Conditioning
9.	DB	- Database
10.	DBMS	- Database Management System
11.	DCIM	- Data Center Infrastructure Management
12.	DCIM	- Data Center Infrastructure Management
13.	DDR	- Double Data Rate
14.	DOS	- Disk Operating System
15.	DVFS	- Dynamic Voltage and Frequency Scaling
16.	ECC	- Error-Correcting Code
17.	EER	- Energy Efficiency ratio
18.	EMC	- Electromagnetic Compatibility (UPS)
19.	ERP	- Enterprise Resource Planning System
20.	Ethernet	- IEEE 802.3 Standard LAN protocol
21.	FAT	- Factory acceptance test
22.	FC HBA	- Fiber Channel Host Bus Adapter
23.	FCC	- Federal Communications Commission
24.	FIPS	- Federal Information Processing Standards
25.	GB	- Gigabyte
26.	GPU	- Graphics Processing Unit
27.	GWP	- Global Warming Potential
28.	HEPA	- High-Efficiency Particulate Air
29.	Hz	- Hertz (cycles per second)
30.	iDRAC	- Integrated Dell Remote Access Controller
31.	IEEE	- Institute of Electrical and Electronics Engineers
32.	IIS	- Internet Information Services
33.	IOPS	- I/O Operations Per Second
34.	ISO	- International Standards Organization
35.	ITEE_sv	- IT Equipment Energy Efficiency for servers

<u>No</u>	<u>Term</u>	<u>Explanation</u>
36.	KB	- Kilobyte
37.	kVA	- Kilovolt ampere
38.	LACP	- Link Aggregation Control Protocol
39.	LAN	- Local area network
40.	LFP	- Lithium Iron Phosphate
41.	MB	- Megabyte
42.	MERV	- Minimum Efficiency Reporting Value
43.	MTBF	- Mean time between failures
44.	MTBF	- Mean Time Between Failures
45.	NFS	- Network File System
46.	NIC	- Network interface card
47.	NOS	- Network operating system
48.	NVMe	- Non-Volatile Memory Express
49.	NVMe-oF	- Non-Volatile Memory Express over Fabrics
50.	ODBC	- Open Database Connectivity
51.	OLAP	- Online Analytical Processing
52.	OLE	- Object Linking and Embedding
53.	OLTP	- Online Transaction Processing
54.	OS	- Operating system
55.	PCIe	- Peripheral Component Interconnect Express
56.	PCL	- Printer Command Language
57.	PS	- PostScript -- Adobe page description language
58.	PUE	- Power Usage Effectiveness
59.	QSFP	- Quad Small Form-factor Pluggable
60.	RAID	- Redundant array of inexpensive disks
61.	RAM	- Random access memory
62.	RDIMM	- Registered Dual In-line Memory Module
63.	RDMA	- Remote Direct Memory Access
64.	REST API	- Representational State Transfer Application Programming Interface
65.	RISC	- Reduced instruction-set computer
66.	RMAN	- Oracle Recovery Manager
67.	RoCE	- RDMA over Converged Ethernet
68.	RoHS	- Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment
69.	SAS	- Serial Attached SCSI
70.	SAT	- Site acceptance test
71.	SATA	- Serial Advanced Technology Attachment
72.	SCSI	- Small Computer System Interface
73.	SERT	- Server Efficiency Rating Tool
74.	SFP	- Small Form-factor Pluggable
75.	SHR	- Sensible heat ratio
76.	SMB	- Server Message Block
77.	SNIA	- Storage Networking Industry Association
78.	SNMP	- Simple Network Management Protocol
79.	SNMP	- Simple Network Management Protocol

<u>No</u>	<u>Term</u>	<u>Explanation</u>
80.	SPEC	- Standard Performance Evaluation Corporation
81.	SQL	- Structured Query Language
82.	SSD	- Solid State Drive
83.	TCO	- Total Cost of Ownership
84.	TCP/IP	- Transmission Control Protocol / Internet Protocol
85.	TLS	- Transport Layer Security
86.	U4E	- United for Efficiency (UNEP initiative)
87.	V	- Volt
88.	VMware	- VMware (virtualization software platform)
89.	WAF	- Web Application Firewall
90.	WLAN	- Wireless LAN
91.	WORM	- Write Once, Read Many
92.	WUE	- Water Usage Effectiveness

B. Functional, Architectural and Performance Requirements

Particulars of Legal and Regulatory Requirements		Yes/ No	Comments
i) Legal and Regulatory Requirements to be met by the ICT System			
1.	<p>The ICT System MUST comply with the following laws and regulations:</p> <p>1.1. Public Procurement and Asset Disposal Act, 2015 (PPADA) and Regulations, 2020 1.2. Government ICT Standards (Issued by ICT Authority – ICTA) 1.3. Kenya Cloud Policy, 2025 (Effective May 2025, under Kenya Information and Communications Act) 1.4. Data Protection Act, 2019 (DPA) and Regulations (General, Registration, Complaints Handling – 2021) 1.5. Kenya Bureau of Standards (KEBS) - Kenya Standards (KS) for quality, safety, and performance 1.6. Computer Misuse and Cybercrime Act, 2018 - measures against unauthorized access, interference, or data breaches 1.7. Kenya Information and Communications Act (KICA) and Communications Authority (CA) rules - networking/telecom elements (cybersecurity guidelines)</p>		

Particulars of Business Function Requirements

ii) Business Function Requirements to be met by the ICT System		
The ICT System MUST support the following business functions: <i>(Specific business processes and procedures that will be automated by the Information System)</i>		
Compliance (Response entry) shall be indicated in the Table as follows: <ul style="list-style-type: none"> ✓ With "Native", or "Add-on", or "3rd Party" ✓ With features "out-of-the-box", "configurations", or "custom developments" ✓ With emphasis on "cloud" vs. "on-premise" ✓ By adding specific metrics Compliance (Details entry) shall be indicated in the Table as follows: ✓ With "Comply", "Partially Comply", or "Not Comply" statements, supported by detailed explanations and evidence.		
NB: Payment shall be made per module upon commissioning.		

Particulars of Business Function Requirements (ERP)

1. General (ERP) Functions - Global Document Management System (GDMS)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
1.1. Global Document Management System:		
1.1.1. Provide for storage of documents as complete files online via the native document management integration with applications such as SharePoint:		
1.1.2. Provide for actual files to be stored in structured document libraries/ folders (automatically created based on entity GUIDs or custom logic), while only lightweight metadata (references, dates, types) stays in the database tables		
1.1.3. Provide for ease of access, searching, compliance, versioning, and collaboration for the document management system		
1.1.4. Provide for "delivery book - like" system (for tracking hard copy file movement) complete with workflow and email notification to participants		
1.1.5. Provide for large language model (LLM) system for querying and summarization of the staff documents in the "Global Document Management System"		
1.1.6. Provide for LLM AI integration for generation of user-defined reports from the complete files stored in the in structured document libraries/ folders		

Particulars of Business Function Requirements

2. General Functions - Document Generation (DGEN)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
2.1. Mail Merge-Style Document Generation:		
2.1.1. Provide for native “Mail Merge-Style Document Generation” using Microsoft Word templates uploaded as complete files stored in the in structured document libraries/folders		
2.1.2. Provide for functionality (native, plugin or add-on) for “Merged Document Generation” combining multiple separate complete files stored in the in structured document libraries/folders (such as a main proposal and attendant appendices). The output to be in common formats such as pdf.		
2.1.3. Provide for Drill-Down at report level		
2.1.4. Provide for Graphical reports		

Particulars of Business Function Requirements (ERP)

3. General (ERP) Functions – Large Language Model Wiki (LLMW)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
3.1. Module Overview and Purpose:		
3.1.1. Provide for an autonomous, LLM-driven personal/ research knowledge base builder that ingests heterogeneous raw data sources and incrementally compiles, maintains, and enhances a high-quality, interconnected Markdown wiki optimized for Obsidian.		
3.1.2. Provide for core paradigm that is iterative knowledge work: raw inputs → LLM compilation → Obsidian-viewable wiki → LLM-powered Q&A and operations → outputs filed back into the wiki → continuous refinement.		
3.1.3. Provide for token throughput that is primarily dedicated to knowledge manipulation (reading, summarizing, synthesizing, linking, cleaning, and expanding Markdown + images) rather than one-off chat.		
3.1.4. Provide for long-term accumulation of insight across multiple research topics, where repeated queries and new sources cause the wiki to self-refine (patterns are detected, structures improved, inconsistencies resolved).		
3.2. Data Ingest Subsystem:		
3.2.1. Provide for ingestion from arbitrary sources: web articles, academic papers, Git repos, datasets (CSV/ JSON/ Parquet), images, PDFs, YouTube transcripts, podcasts, books (via APIs or exports), internal ERP records, etc.		
3.2.2. Provide for all raw ingested items are stored unchanged in a dedicated ./raw/ directory tree, preserving original filenames, timestamps, and metadata (source URL, fetch date, author, etc.).		
3.2.3. Provide for automated importers/ CLI tools for common sources (such as Obsidian Web Clipper integration that saves article as .md + downloads all images to ./raw/images/<article-slug>/).		
3.2.4. Provide support for hotkey-triggered or scheduled bulk image download for web-clipped articles so the LLM can reliably reference local images via relative Markdown paths.		

Particulars of Business Function Requirements (ERP)

3. General (ERP) Functions – Large Language Model Wiki (LLMW)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
3.2.5. Provide for maintenance of a lightweight metadata index (JSON or SQLite) for every raw file containing: original source, ingest timestamp, file hash, tags, and LLM-generated initial summary.		
3.3. Wiki Compilation Engine (Core LLM Process):		
3.3.1. Provide for LLM that acts as an autonomous compiler that periodically or on-trigger scans the ./raw/ directory and incrementally updates the ./wiki/ directory tree.		
3.3.2. Provide for wiki that follows a clean, Obsidian-friendly structure:		
3.3.2.1. ./wiki/concepts/ - atomic concept pages		
3.3.2.2. ./wiki/articles/ - longer synthesized articles		
3.3.2.3. ./wiki/summaries/ - auto-generated document summaries and indexes		
3.3.2.4. ./wiki/index.md - master index with dynamic tables of contents		
3.3.2.5. ./wiki/maps/ - MOC (Map of Content) files		
3.3.2.6. ./wiki/outputs/ - query results, slides, visualizations filed for later reference		
3.3.3. Provide that for every new or changed raw document, the LLM:		
3.3.3.1. Generates or updates a concise summary Markdown file with backlinks to the raw source.		
3.3.3.2. Extracts key concepts/entities and creates or updates atomic concept pages (with definitions, properties, relations).		
3.3.3.3. Synthesizes higher-level articles that weave multiple sources together.		
3.3.3.4. Creates rich bidirectional backlinks, [[wikilinks]], tags, and embedded images (using relative paths to local copies).		
3.3.4. Provide that the LLM maintains a global ontology of concepts and automatically categorizes new information into existing or new categories.		
3.3.5. Provide that all compilation is incremental and idempotent: only changed or new raw content triggers updates; the LLM compares current wiki state vs. raw state before writing.		
3.4. Autonomous Wiki Maintenance & Linting:		

Particulars of Business Function Requirements (ERP)

3. General (ERP) Functions – Large Language Model Wiki (LLMW)

	<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
	3.4.1. Provide that the LLM runs periodic “health check” passes over the entire wiki (triggered by size thresholds, time, or manual command).		
	3.4.2. Provide for health checks to include:		
	3.4.2.1. Detecting factual inconsistencies across linked pages.		
	3.4.2.2. Identifying missing data or broken backlinks.		
	3.4.2.3. Imputing missing information via integrated web search / retrieval tools (with proper citation).		
	3.4.2.4. Discovering emergent connections between concepts and proposing new article candidates.		
	3.4.2.5. Standardizing terminology, improving structure, and enhancing readability.		
	3.4.2.6. Updating all auto-generated index files and summary tables.		
	3.4.3. Provide that the LLM can suggest a prioritized list of “next questions to explore” or “promising research directions” based on gaps and clusters in the current knowledge graph.		
	3.4.4. Provide that all maintenance actions are logged in ./wiki/meta/maintenance-log.md with before/after diffs where appropriate.		
	3.5. Query & Q&A Subsystem:		
	3.5.1. Provide that once the wiki reaches a threshold (configurable, such as ≥ 100 articles and $\sim 400K$ words), the LLM agent switches to “research mode” against the wiki as primary context.		
	3.5.2. Provide that the agent automatically:		
	3.5.2.1. Reads relevant index/summary files first.		
	3.5.2.2. Performs targeted retrieval of the most important related Markdown files and images.		
	3.5.2.3. Chains reasoning across multiple linked concepts.		
	3.5.3. Provide that complex, multi-hop questions are answered by producing structured outputs rather than plain text.		
	3.5.4. Provide support for output formats (all saved as files in ./wiki/outputs/<query-slug>/):		
	3.5.4.1. Rich Markdown files with embedded images, tables, and wikilinks.		
	3.5.4.2. Marp slide decks (.md with Marp frontmatter) for presentations.		

Particulars of Business Function Requirements (ERP)

3. General (ERP) Functions – Large Language Model Wiki (LLMW)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
3.5.4.3. Matplotlib / Plotly generated charts saved as images + source code.		
3.5.4.4. Other formats: Mermaid diagrams, Excalidraw JSON, LaTeX snippets, etc.		
3.5.5. Provide that every Q&A session produces a new Markdown file that is automatically filed back into the wiki (with proper linking and tagging), so future queries build on previous explorations.		
3.6. Obsidian as the Universal Frontend / IDE:		
3.6.1. Provide that the entire knowledge base (raw/, wiki/, outputs/) lives in a single Obsidian vault.		
3.6.2. Provide that Users can fluidly browse: raw source material, compiled wiki articles, concept maps, maintenance logs, and all previous query outputs.		
3.6.3. Provide that derived visualizations (graphs, canvases, dataview queries, embedded images) are natively viewable and interactive inside Obsidian.		
3.6.4. Provide that the module exposes hotkeys or Obsidian plugins (if third-party) to trigger compilation, health checks, or new queries directly from within Obsidian.		
3.7. CLI Tooling Layer Operated by the LLM:		
3.7.1. Provide a rich set of CLI commands that the LLM can autonomously invoke via function calling / tool use:		
3.7.1.1. compile – incremental wiki update		
3.7.1.2. healthcheck – run linting and integrity passes		
3.7.1.3. query <question> – run research and produce output files		
3.7.1.4. suggest – generate next research directions		
3.7.1.5. ingest <source> – add new raw content		
3.7.1.6. index – rebuild summary/index files		
3.7.1.7. visualize <topic> – generate diagrams or charts		
3.7.2. Provide that the LLM chains these CLIs intelligently (such as ingest → compile → query → file output → healthcheck)		
3.7.3. Provide that all CLI operations log actions and can be reviewed in the wiki		
3.8. Extensibility and Additional Tools:		

Particulars of Business Function Requirements (ERP)

3. General (ERP) Functions – Large Language Model Wiki (LLMW)

	<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
	3.8.1. Provide for a plugin/extension system for development of small additional tools (such as a naive vector + BM25 search engine over the wiki).		
	3.8.2. Provide for tools that can be exposed both as:		
	3.8.2.1. Standalone web UI (optional lightweight frontend)		
	3.8.2.2. CLI commands that the main LLM agent can call as tools		
	3.8.3. Provide support for “vibe coding” of quick, domain-specific processors (such as custom data extractors, graph generators, synthetic data creators).		
	3.8.4. Provide for hooks for synthetic data generation pipelines that allow fine-tuning a smaller model on the curated wiki so the knowledge can be internalized into model weights (reducing context-window dependency for frequent queries)		

Particulars of Business Function Requirements (ERP)

4. General (ERP) Functions - Unstructured Supplementary Service Data (USSD)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
USSD (<i>Unstructured Supplementary Service Data</i>) Application: Applications providing session-based, menu-driven interactive services accessible via basic mobile phones by dialling a short code (such as *123#) ideal for customer self-service, transactions, queries, and data entry		
4.1. USSD Code Acquisition and Gateway Setup:		
4.1.1. Provide for registration of a dedicated (unique, such as *ABC#) through mobile network operators (MNOs) or such providers in Kenya		
4.1.2. Provide for gateway to handle session management in conjunction with MNO as well as application server to handle https callbacks (with parameters like session ID, user input, etc).		
4.1.3. Provide for interface for setup of server-side responses informing menu/ action		
4.2. Application Logic Development:		
4.2.1. Provide for building of backend service that processes USSD requests		
4.2.2. Provide for use libraries from aggregators for simplified menu flows, state management, and response formatting		
4.2.3. Provide for hierarchical menus (such as 1. Sugarcane Varieties – 2. Advisory Services) with input validation, error handling, and multi-language support (English/ Swahili)		
4.2.4. Provide for hosting on cloud (e.g. Azure) or on-premises servers		
4.2.5. Provide for alternative use of serverless options or containers		
4.3. Database and Business Logic:		
4.3.1. Provide for integration with a backend database (e.g. SQL Server, PostgreSQL, MongoDB) or directly with enterprise systems for real-time data		

Particulars of Business Function Requirements (ERP)**4. General (ERP) Functions - Unstructured Supplementary Service Data (USSD)**

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
4.3.2. Provide for security including:		
1) Encryption of sessions where possible		
2) Validating MSISDN		
3) Implementation of rate limits		
4.4. Integration with ERP:		
4.4.1. Provide for Web APIs / Representational State Transfer (REST) APIs for USSD backend to send HTTP requests (POST/GET) to query or update records		
4.4.2. Provide for middleware/ orchestration as lightweight intermediaries for authentication, data mapping, error handling, and workflows		
4.4.3. Provide for virtual tables or plugins that can pull/push data in real-time		
4.4.4. Provide for custom connectors or SDKs or direct HTTP calls from the USSD app		
4.4.5. Provide for event-driven webhooks or plugins to trigger notifications (such as via SMS fallback) on USSD-initiated actions		
4.4.6. Provide for USSD side queuing for peak loads		
4.4.7. Provide for optimization of API calls and use of caching		
4.4.8. Provide for storage of temporary state in ERP database		
4.4.9. Provide for monitoring of API calls licensing and USSD session fees		
4.4.10. Provide for user training via IVR/ SMS		
4.4.11. Provide for analytics and reporting		

Particulars of Business Function Requirements (ERP)

5. General (ERP) Functions – Bulk SMS (BSMS)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
Provide for bulk SMS messaging through native features and integrations		
5.1. Native integrations:		
5.1.1. Provide for sending outbound text messages (SMS) by configuring native providers		
5.1.2. Provide for personalization and tracking with bulk sending via targeting multiple contacts		
5.1.3. Provide for configuration of SMS providers (in ERP) to send and receive text messages directly from records, with support for notifications and some bulk scenarios via workflows or activities		
5.1.4. Provide for two-way SMS support within an ERP system, enabling conversational support with local numbers or short codes		
5.2. Bulk-specific features:		
5.2.1. Provide for sending to marketing lists, groups, or segments		
5.2.2. Provide for third-party apps with explicit bulk SMS sending from lists, automation workflows, scheduling, and templates		
5.2.3. Provide for handling of high-volume messaging		
5.2.4. Provide for setup including registering an SMS provider account, adding phone numbers/ sender IDs, and configuring consent/ opt-out handling for compliance		
5.3. Analytics and Reporting:		
5.3.1. Provide for automated user-defined real-time reporting		

Particulars of Business Function Requirements (ERP)

6. General (ERP) Functions – Online Data Collection (ODC)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
6.1. Form Authoring and Design Tools:		
6.1.1. Provide for a native system for creation of user-defined survey questionnaire for online data capture directly into the database		
6.1.2. Provide for drag-and-drop or spreadsheet-based form builders to create complex surveys or data entry forms without heavy coding		
6.1.3. Provide for support for a wide range of question types: text, numbers, select one/ multiple, dates, rankings, ratings, and calculated fields		
6.1.4. Provide for integration with ERP entities/ tables (such as pre-populating from Customer, Asset, Work Order, or custom Dataverse tables) or building standalone forms that sync to Dataverse		
6.1.5. Provide for native in Power Apps (canvas or model-driven) or via external ODK tools integrated through APIs/ Power Automate		
6.2. Advanced Form Logic and Validation:		
6.2.1. Provide for skip logic (relevants/ branching), conditional visibility of questions/sections, and required fields.		
6.2.2. Provide for calculations (such as auto-computing totals, scores, or derived values based on inputs).		
6.2.3. Provide for constraints and validation rules (such as range checks, format validation, custom expressions).		
6.2.4. Provide for repeating groups/sections for handling multiple items (such as line items in an inspection or inventory count)		
6.2.5. Provide for availability natively in ERP Apps or in model-driven forms; enhanced through custom JavaScript or embedded logic in ERP		
6.3. Multimedia and Rich Data Capture:		

Particulars of Business Function Requirements (ERP)

6. General (ERP) Functions – Online Data Collection (ODC)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
6.3.1. Provide for capture photos, videos, audio recordings, signatures, and barcodes/ QR codes directly via device hardware.		
6.3.2. Provide for attachment of files or annotations to records.		
6.3.3. Provide for geospatial capture: GPS points, lines, polygons, location tracking, and map integration (online/offline maps).		
6.3.4. Provide for strong native support in ERP and mobile apps (camera, barcode scanning, signature capture, geocoding).		
6.4. Offline-First Data Collection:		
6.4.1. Provide for full functionality without internet: collect, save, and queue data locally on mobile devices (Android/ iOS).		
6.4.2. Provide for automatic or manual synchronization when connectivity is restored, with conflict resolution.		
6.4.3. Provide for customizable offline profiles (such as filter data by user, location, or entity) to optimize storage and performance.		
6.4.4. Provide for native mobile app, offline sync, enhanced offline filters, offline databases		
6.5. Metadata and Contextual Data Collection:		
6.5.1. Provide for automatic capture of timestamps, device location, user ID, and audit trails		
6.5.2. Provide for integration with device sensors (such as accelerometer for certain inspections) or external hardware		
6.5.3. Provide for pre-filling forms from existing Dynamics 365 records (such as pulling customer details or asset history)		
6.5.4. Provide for native metadata handling in ERP and mobile apps, with auditing built into the platform		
6.6. Data Submission and Aggregation:		
6.6.1. Provide for secure submission of completed forms to a central ERP server		
6.6.2. Provide for bulk upload and aggregation of submissions from multiple users/ devices		
6.6.3. Provide for real-time or near-real-time visibility of incoming data in ERP dashboards, views, or reports		

Particulars of Business Function Requirements (ERP)

6. General (ERP) Functions – Online Data Collection (ODC)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
6.6.4. Provide for native capability through ERP APIs and provide for integration with external ODK aggregate-like servers via connectors		
6.7. Workflow and Business Process Integration;		
6.7.1. Provide for trigger-automated workflows upon form submission (such as create/ update work orders, generate approvals, notify teams via email).		
6.7.2. Provide for link collected data to ERP/ CRM processes (inventory updates, service scheduling, quality inspections)		
6.7.3. Provide for entity-based workflows in ERP (such as tying field data to CRM, survey service, or training / research modules).		
6.7.4. Provide for highly native via business process flows and other ERP plugins		
6.8. Security, Access Control, and Compliance:		
6.8.1. Provide for role-based access (such as field users see only relevant forms/data; admins manage templates)		
6.8.2. Provide for data encryption, audit logging, and compliance with standards		
6.8.3. Provide for user authentication tied to ERP		
6.8.4. Provide for fully native security model in ERP, with granular field-level security		
6.9. Analytics, Reporting, and Data Export:		
6.9.1. Provide for real-time dashboards and visualizations of collected data (ERP app integration)		
6.9.2. Provide for export to Excel, CSV, PDF, or direct push to other Dynamics 365 modules		
6.9.3. Provide for advanced querying and aggregation on ERP		
6.9.4. Provide for native ERP app embedding and reporting capabilities		
6.10. Scalability, Deployment, and Management:		
6.10.1. Provide for support for large-scale deployments (thousands of users/ devices) with centralized form version control and updates.		
6.10.2. Provide for mobile app deployment via ERP for phones/tablets or custom ERP		
6.10.3. Provide for monitoring of sync performance, telemetry, and usage		

Particulars of Business Function Requirements (ERP)

6. General (ERP) Functions – Online Data Collection (ODC)

	<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
	6.10.4. Provide for hybrid approach: Use native Dynamics tools for core ERP integration or embed/ integrate third party apps via APIs for specialized survey needs		
	6.11. Geospatial and Mapping Features:		
	6.11.1. Provide for collection and visualization of spatial data with geofencing, routing, and offline map layers		
	6.11.2. Provide for integration with online Maps or other services in ERP		
	6.11.3. Provide native in ERP (technician locator, driving directions, location auditing).		
	6.12. Customization and Extensibility:		
	6.12.1. Provide for low-code/ no-code extensions or custom code.		
	6.12.2. Provide for integration with external systems (IoT, third-party ODK servers).		
	6.12.3. Provide for ability to create reusable form templates or entity-specific data collection experiences.		
	6.12.4. Provide for ERP model-driven architecture allowing for "design once, deploy everywhere" across web and mobile		
	6.12.5. provide for native location tracking/ recording (via GPS/ geolocation) and timestamp for verification, auditing and reporting		
	6.12.6. provide for geofencing with definition of virtual perimeters around office sites, client locations, or duty areas		
	6.12.7. Provide for integration with specific modules/ functions.		
	6.12.8. Provide for data storage in given modules, custom reporting/ dashboards, location history, logs, and exceptions		
	6.12.9. Provide for any device support including iOS/ Android, web browsers, or embedded in Microsoft Teams		
	6.12.10. Provide for GPS sharing to see real-time positions on the schedule boards and location history		

Particulars of Business Function Requirements (ERP)

7. General (ERP) Functions – Committees Information Management System (CIMS)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
7.1. Committee Definition and Setup:		
7.1.1. Provide for user-defined forms and sub-forms for creation and maintenance of committee records with details such as committee name, code, type (standing/ ad-hoc), establishment date, dissolution date, and status (Active/ Inactive), Terms of Reference (ToR), objectives, powers, quorum requirements, and decision-making rules, etc		
7.1.2. Provide for definition of membership roles database (including roles like Chairperson, Secretary, Member, Observer, etc.) and definition of membership terms		
7.1.3. Provide for capture full file scanned copies of memos establishing the committees using the GDMS		
7.1.4. Provide for enforcement of committee hierarchy and parent-child relationships as belonging to a given organizational unit e.g. HR-related committees being linked to the Head of HR as the related HoD.		
7.1.5. Provide for linking of a committee to its mother organizational unit's budget in the finance module		
7.2. Committee Membership Management:		
7.2.1. Provide for addition, update, or removal of members by the CEO		
7.2.2. Provide for member details to be pulled from the employee database in HR module (name, designation, department, contact information, digital signature)		
7.2.3. Provide for alternate members and proxy attendance rules		
7.2.4. Provide for generation of membership lists, appointment letters automatically with email notification to the members.		
7.3. Meeting and Activity Scheduling:		
7.3.1. Provide for capture of meeting records linked to a specific committee with agenda items, date, time, venue (physical or virtual), and expected duration		

Particulars of Business Function Requirements (ERP)

7. General (ERP) Functions – Committees Information Management System (CIMS)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
7.3.2. Provide support for recurring meetings with flexible patterns (weekly, monthly, quarterly, etc.)		
7.3.3. Provide for upload of draft agenda documents during scheduling as full file documents using the GDMS		
7.3.4. Provide for activity planning beyond meetings (such as workshops, field visits, hearings) with similar scheduling capabilities with link to a committee’s mother organizational unit’s budget		
7.4. Approval Workflow for Meetings and Activities:		
7.4.1. Provide for configurable multi-level approval workflows for meeting requests (such as Secretary → Chairperson).		
7.4.2. Provide for automated status tracking (Draft, Submitted, Approved, Rejected, Cancelled).		
7.4.3. Provide for built-in workflow engine with conditional branching based on committee type or meeting sensitivity.		
7.4.4. Provide for full audit trail of all approvals and rejections.		
7.5. Email Notification and Communication:		
7.5.1. Provide for automatic email notifications triggered by workflow events (meeting creation, approval, rejection, cancellation, or changes).		
7.5.2. Provide for customizable email templates for invitations, agenda distribution, and updates.		
7.5.3. Provide for support for attaching agenda documents or links to the meeting record using the GDMS		
7.6. Automated Meeting Reminders:		
7.6.1. Provide for configurable reminder engine that sends automated emails to all members (and alternates) at defined intervals (such as 7 days, 48 hours, and 24 hours before the meeting)		
7.6.2. Provide for meeting details, agenda, venue/link, and RSVP option in reminders		
7.6.3. Provide for escalation reminders to the Secretary or Chairperson if quorum is at risk		
7.7. Minutes Management and Documentation:		
7.7.1. Provide for recording of meeting outcomes with attendance, decisions, action items, and resolutions		

Particulars of Business Function Requirements (ERP)

7. General (ERP) Functions – Committees Information Management System (CIMS)

	<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
	7.7.2. Provide for full integration with the Global Document Management System (GDMS) for uploading, versioning, and linking official minutes, attendance sheets, and supporting documents		
	7.7.3. Provide for secure access-controlled document attachment with metadata tagging (committee, meeting date, document type)		
	7.7.4. Provide for generation of standardized minutes templates with auto-populated fields from the meeting record		
	7.8. Action Items and Follow-up Tracking:		
	7.8.1. Provide for capture of action items arising from meetings with assigned owners (linked to staff), deadlines, and priority levels.		
	7.8.2. Provide for automated reminders for pending actions and overdue alerts via email		
	7.8.3. Provide for dashboard for tracking open action items across all committees using the personal dashboard (PD) function		
	7.9. Reporting and Analytics:		
	7.9.1. Provide for generation of reports on committee composition, meeting attendance, decision history, and compliance with terms of reference.		
	7.9.2. Provide for dashboards showing upcoming meetings, pending approvals, and action item status.		
	7.9.3. Provide for exportable reports in PDF/ Excel with KESRETI-compliant formatting and audit logs.		

Particulars of Business Function Requirements (ERP)

8. General (ERP) Functions – Personalized Dashboard (PD)

<u>Detailed Function</u>	<u>Response</u>	<u>Details</u>
8.1. Creation of Personal (User-Owned) Dashboards:		
8.1.1. Provide for individual users to create their own dashboards directly from the Dashboards area		
8.1.2. Provide for dashboards tailored to the user's specific role, responsibilities, or daily needs, using built-in tools without requiring admin or developer intervention		
8.2. Predefined Layout Selection:		
8.2.1. Provide for Users to choose from multiple layout options (such as 3-column regular, 2-column, or other grid-based templates)		
8.2.2. Provide support for flexible layouts arrangement of components across columns and rows		
8.3. Adding and Mixing Components:		
8.3.1. Support adding a combination of elements in tiles/ sections, including:		
8.3.1.1. Charts (system or personal charts for visual data representation)		
8.3.1.2. Lists/ Views (grids showing records from system or personal views)		
8.3.1.3. IFrames (for embedding external content or pages)		
8.3.1.4. Web Resources (custom HTML/JavaScript visuals or controls)		
8.3.1.5. Visuals or embedded reports for advanced analytics		
8.4. Data Filtering and Visualization Controls:		
8.4.1. Provide for application of global filters, visual filters, or component-specific filters to show only relevant data		
8.4.2. Provide for switching chart types, modification of calculations (such as change the field used for aggregation), and configuration of colors for option-set values in interactive dashboards		

8.4.3. Provide for right-click personalization for hiding, renaming, or promoting elements to the dashboard		
8.4.4. Provide for dashboards to be tailored per user role (such as service support see problems/ wok tickets/ feedback; finance user sees cash flow and budget tiles). Admin roles control visibility and editing rights		
8.4.5. Provide for Users to duplicate system or other personal dashboards as a starting point, then customize them further, or edit components (such as update data sources or properties) without starting from scratch		
8.5. Real-Time Data and KPI Monitoring:		
8.5.1. Provide for dashboards pull of live data from ERP entities, providing at-a-glance views of key metrics, performance indicators, pipelines, workloads, or operational summaries (such as scheduled meetings, pending workflow approvals, or pending tasks assigned, etc)		
8.5.2. Provide support for dynamic, multi-stream visualizations with enhanced filtering, drill-down capabilities, and real-time interaction (such as in seedcane production and distribution), going beyond static classic dashboards		
8.6. Sharing and Collaboration Options:		
8.6.1. Provide for sharing of personal dashboards selectively with other users, teams, or security roles		
8.7. Embedding for Advanced Analytics:		
8.7.1. Provide for native support for embedding analytical reports, tiles, or dashboards directly into ERP dashboards		
8.7.2. Provide for richer visualizations, cross-data-source insights, predictive elements, and self-service analytics beyond standard charts		
8.8. Mobile and Cross-Device Access:		
8.8.1. Provide for personalized dashboards that render consistently on web, mobile apps, and tablets, maintaining full functionality for on-the-go monitoring of metrics and quick actions		
8.9. Quick Actions and Navigation Integration:		
8.9.1. Provide for users to perform actions like opening records, creating new items, or navigating to related forms/ views, turning the dashboard into a productive starting point for daily work		

Particulars of Business Function Requirements (ERP)

9. Directorate (ERP) – Directorate Information Management System (DIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
9.1. Board Performance Contract (BPC) Capture:		
9.1.1. Provide for capture of BPC as complete file in document libraries using the “Global Document Management System” function		
9.1.2. Provide for capture of BPC matrices (Annex I & II) as separate but linked tables named “BPC_Annex_I_Signed” and “BPC_Annex_II_Signed”		
9.2. BPC Cascading to Organizational Units:		
9.2.1. Provide for Generation of a sub-table of “BPC_Annex_II_Signed” named “BPC_Annex_II_Cascaded” where heads of directorates/ divisions/ units/ programs/ projects can select the targets relevant to their respective functions including those that are mandatory.		
9.2.2. Provide for automated computation of percentage contribution (“apportioned target (%)”) of each “sub-indicator” in the “BPC_Annex_II_Cascaded” using a weighting method such as prorating for each directorate/ division/ unit/ program/ project that selected the “sub-indicator” target		
9.2.3. Provide for generation of full file report named “BPC_Annex_II_<<Staff PNo.>>”, for each member of staff above a given grade in the format of “BPC_Annex_II_Signed”. This report should contain all the “sub-indicator” targets and percentage contribution (“apportioned target (%)”) corresponding to the selected “sub-indicator” targets for respective directorate/ division/ unit/ program/ project they belong to		
9.2.4. Provide for generation of “Narrative” section of PC document using native tools merging stored full file Microsoft Word template with select records in the personnel database		

9.2.5. Provide for automated generation of “full PC document” for each staff using built-in tools merging several stored full file “Narrative”, “BPC_Annex_I_Signed” and “BPC_Annex_II_<<Staff PNo.>>”		
9.2.6. Provide for online signing/ acceptance of the “full PC document” by select staff using native methods		
9.2.7. Provide for workflow for respective staff to continuously, amend the “apportioned target (%)” upon upload of “expected periodic reports/ evidence” as full file attachments into the “BPC_Annex_II_Cascaded” table <i>with approval of the PC Coordinator and respective Heads relevant organizational units</i> . Document upload should utilize the “Global Document Management System”.		
9.2.8. Provide for automated weekly email reminders to staff on “expected reports/ evidence” until the “apportioned target (%)” ‘entry’ meets the ‘assigned’ “apportioned target (%)”		
9.2.9. Provide for generation of periodic full file report named “BPC_Annex_II_Actual” that contains the sum-total of “apportioned target (%)” for all the staff assigned in the format of “BPC_Annex_II_Signed” at any given time e.g. quarterly. This report should be <i>automatically customizable to each organizational unit</i> .		
9.2.10. Provide for automated generation of “BPC_Annex_I_Actual” with actual “Weights” automatically computed based on computation of “apportioned target (%)” from the “BPC_Annex_II_Actual”		
9.2.11. Provide from automated generation of full file report named “BPC_Annex_I_Actual” at any given time e.g. quarterly.		
9.3. PC Cascading to Individual Staff:		
9.3.1. Provide for generation of a sub-table of “BPC_Annex_II_Cascaded” named “PC_Annex_II_Appraisal_<<Staff PNo.>>” where “actual tasks” for each “sub-indicator” entry in “BPC_Annex_II_Cascaded” are defined and assigned to individual members of staff		
9.3.2. Provide for the “actual tasks” to be captured as follows:		
a. Direct entries of actual activities to be undertaken by a given member of staff		
b. Predetermined activities selected from:		
the “activities/ sub-activities” entries in “PC_Annex_II_Appraisal_<<Staff PNo.>>”		
the “activities” defined in the “Implementation Framework” of the Strategic Plan (SP)		

the “activities” defined in the “Implementation Framework” of the Productivity Mainstreaming & Implementation (PMI)		
the “activities” defined in the “Implementation Framework” of the Science, Technology and Innovation (STI)		
the “activities” defined in the “Implementation Framework” of the Presidential directives		
the “activities” defined in the “Implementation Framework” of the any other emergent programs being directives from regulatory or such authorities		
9.3.3. Provide for “actual tasks” entries to include specification of: “activity/ sub-activity”, “timelines”, “expected reports/ evidence”, “budget/ procurement plan IDs”		
9.3.4. Provide for workflow where respective Heads of Directorates/ Divisions/ Units/ Sections/ Projects/ Programs generate and assign the “activities/ sub-activities” to respective individual members of staff with the staff ‘accepting’		
9.3.5. Provide for generation of full file report named “PC_Annex_II_Appraisal_<<Staff PNo.>>” that contains all the “activities/ sub-activities” assigned to a given member of staff		
9.3.6. Provide for generation of “Narrative” of PC document for each staff using the “Mail Merge-Style Document Generation” function based on full file Microsoft Word template stored using the “Global Document Management System” and the HR staff database		
9.3.7. Provide for generation of full file PC document for each staff using the “Mail Merge-Style Document Generation” function based on full file based on global “BPC_Annex_I_Signed” full document together with respective “Narrative” and “PC_Annex_II_Appraisal_<<Staff PNo.>>” full document reports in the document library		
9.3.8. Provide for continuous, upload of “expected reports/ evidence” as attachments into the “PC_Annex_II_Appraisal_<<Staff PNo.>>” table using the “Global Document Management System”.		
9.3.9. Provide for automated weekly email reminders to staff on pending “expected reports/ evidence”		
9.4. Tasks Assignment Management:		
9.4.1. Provide for tasks ticket generation with email notification to all participants		

9.4.2. Provide for activity management (specification of actual activities, timeliness and KPIs) workflow between assigned staff(s) and the Director		
9.4.3. Provide for evidence capture and reporting workflow with email notification between assigned staff(s) and the Director		
9.4.4. Provide for ticket closure by the Director		
9.5. Registry Management:		
9.5.1. Provide for electronic registry of full file documents managed in document libraries using the "Global Document Management" function		
9.5.2. Provide for capture of mail (electronic/ hardcopy scans), memos, internal/ external circulars, reports, publications, among others as full file document.		
9.5.3. Provide for functionalities including search and mail-merge type report generation, among others		

Particulars of Business Function Requirements (ERP)

10. Directorate (ERP) – Company Secretariat Management System (CSMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
10.1. Contract Lifecycle Management:		
10.1.1. Provide for creation, review, approval, and tracking of contracts, MOUs, and service level agreements (SLAs).		
10.1.2. Provide for automated workflow for legal vetting and approval.		
10.1.3. Provide for contract repository with version control and expiry alerts.		
10.2. Legal Case & Litigation Management:		
10.2.1. Provide for recording and tracking of all court cases, arbitrations, and disputes involving the department.		
10.2.2. Provide for case assignment to internal/external counsel, status monitoring, and hearing date tracking.		
10.2.3. Provide for integration with document management (GDMS) for case files and evidence.		
10.3. Compliance & Regulatory Management:		
10.3.1. Provide for tracking of statutory and regulatory compliance requirements applicable to the government department.		
10.3.2. Provide for automated reminders for filings, returns, and renewals under various laws.		
10.3.3. Provide for compliance dashboard with risk heat maps.		
10.4. Board Secretariat Functions:		
10.4.1. Provide for agenda preparation, meeting scheduling, and minute recording for Board meetings.		
10.4.2. Provide for resolution tracking and action item follow-up.		
10.4.3. Provide for digital approval and e-signing of minutes and resolutions.		
10.5. Intellectual Property Management:		
10.5.1. Provide for registration, renewal, and protection of trademarks, copyrights, patents, and other IP owned by the department.		
10.5.2. Provide for licensing and infringement tracking.		
10.6. Legal Opinion & Advisory Management:		
10.6.1. Provide for request, drafting, approval, and archiving of legal opinions/advice provided to other departments.		

10.6.2. Provide for knowledge base of past opinions for reference and consistency.		
10.7. Document & Record Management (Legal):		
10.7.1. Provide for centralized secure repository for all legal documents, deeds, agreements, and notices.		
10.7.2. Provide for classification, retention policy enforcement, and audit trails.		
10.8. Notice & Summons Management:		
10.8.1. Provide for receipt, acknowledgment, tracking, and response management for legal notices, show-cause notices, and court summons.		
10.8.2. Provide for workflow for assigning responses and monitoring deadlines.		
10.9. Statutory Returns & Filings:		
10.9.1. Provide for management and submission tracking of all statutory returns and filings required by law (such as annual returns, compliance certificates).		
10.9.2. Provide for integration with external government portals where applicable.		
10.10. Risk & Liability Assessment:		
10.10.1. Provide for identification, assessment, and mitigation tracking of legal risks and contingent liabilities.		
10.10.2. Provide for integration with enterprise risk management module.		
10.11. External Counsel & Vendor Management:		
10.11.1. Provide for database of empaneled advocates, law firms, and legal consultants.		
10.11.2. Provide for engagement letters, fee approval, performance tracking, and bill processing.		
10.12. Freedom of Information Management:		
10.12.1. Provide for receipt, routing, and tracking of RTI applications and appeals.		
10.12.2. Provide for response drafting workflow and compliance with statutory timelines.		
10.13. Legislation & Policy Tracking:		
10.13.1. Provide for monitoring of new/ amended laws, rules, regulations, and government circulars affecting the Institute.		
10.13.2. Provide for impact assessment and implementation tracking.		
10.14. Dispute & Grievance Redressal:		
10.14.1. Provide for management of internal and external grievances with legal implications.		

10.14.2. Provide for alternative Dispute Resolution (ADR) tracking.		
10.15. Legal Budget & Expenditure Tracking:		
10.15.1. Provide for budget allocation and monitoring for legal services, court fees, advocate fees, and settlements.		
10.15.2. Provide for integration with Finance module for payment processing.		
10.16. Knowledge Management & Legal Library:		
10.16.1. Provide for centralized repository of legal precedents, judgments, circulars, and reference materials.		
10.16.2. Provide for searchable database with AI-assisted legal research features		
10.17. Reporting & Analytics:		
10.17.1. Provide for automated report generation with workflow for validation/ approval by participants with automated email notifications for responses		
10.17.2. Provide for dashboards for pending cases, contract expiry, compliance status, and legal risk exposure		

Particulars of Business Function Requirements (ERP)

11. Directorate (ERP) – Audit Information Management System (AIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
11.1. Auditing information management:		
11.1.1. Provide for audit scheduling and automated email notification to participants		
11.1.2. Provide for on-the fly user defined data forms creation for: 1) Information submission 2) Sample records submission		
11.1.3. Provide for audit response workflow		
11.1.4. Provide for sample audit records management in document libraries as full file documents using the “Global Document Management” function		
11.1.5. Provide for automated report generation with workflow for validation/ approval by participants with automated email notifications for responses		

Particulars of Business Function Requirements (ERP)

12. Directorate (ERP) – Procurement Information Management System (PIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
12.1. eGP Annual Procurement Plan (APP):		
12.1.1. Provide for import of approved eGP APP into ERP		
12.1.2. Allow for multiple imports off eGP APP to cater for APP amendments		
12.1.3. Provide for addition of meta data for imported APP in the ERP to define attributes such as: 12.1.3.1. Associated staff and their roles in procurement process 12.1.3.2. Fields for linkage with other data		
12.1.4. Provide for linking of imported eGP APP entries with “Management Approved” ERP budget		
12.1.5. Provide for linking of imported eGP APP entries with “implementation frameworks” such as: 12.1.5.1. Strategic plan (SP), 12.1.5.2. “Appraisal” performance contract (PC) activities 12.1.5.3. Productivity management (PM) 12.1.5.4. Science technology and innovation (STI)		
12.2. Procurement Requisitioning:		
12.2.1. Provide for email notification to respective Heads of Divisions, Units and Sections to raise requisite requisitions at the begging of each quarter with bi-weekly reminders until the status of APP entries is marked as “requisitioned” by respective Heads.		
12.2.2. Provide for capture of requisition numbers, creations dates & time, and name of requisitioning officer, as generated by the eGP		
12.2.3. Provide for capture of saved copies of reports generated from the various steps of eGP process		
12.2.4. Provide for tracking of requisition through capture of eGP workflows statuses (corresponding dates & time and names of officers responsible) complete with embedded email notifications to respective participants.		
12.2.5. Provide for respective Heads to update status of APP entries such as to indicate items as “procured”, “indeterminate”, etc. with explanatory notes.		
12.3. eGP Payment Process:		
12.3.1. Provide for “Supplies” to invoke the ERP’s accounts payable ecosystem through raising of payment requisitions		

Particulars of Business Function Requirements (ERP)

12. Directorate (ERP) – Procurement Information Management System (PIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
12.3.2. Provide for capture of scanned documents (Delivery Notes, Invoices, Warranties, etc) and storage using the “Global Document Management” function		
12.3.3. Provide for Procurement Office to validate payment requirements and forward request for payment to the “accounts”		
12.3.4. Provide for payment status monitoring via automated email notifications at each validation/ approval workflow.		
12.4. Supplier Registration:		
12.4.1. Provide for importation of supplier details (PIN, KRA/ iTax-linked details, business name, directors, etc.) from eGP to ERP.		
12.5. Contract Management:		
12.5.1. Provide interface in the ERP for management of contracts including amendments, terminations, deliverables tracking, performance data capture, etc.		
12.6. eGP Annual Disposal Plan (ADP):		
12.6.1. Provide for import of the eGP ADP into ERP		
12.6.2. Provide for linking of imported ADP entries with ERP Fixed Assets data and enforce archiving of disposed assets’ entries.		
12.7. Stores Stock Management:		
12.7.1. Provide for initialization of stores stock ledger with requisite workflow for authentication/ approval complete with embedded email notifications to respective participants		
12.7.2. Provide for update of the stock ledger upon acquisition of stock through processes such as purchases		
12.8. Stores Requisitioning:		
12.8.1. Provide for online requisition of goods by “Users” via a “Goods Requisition Voucher (S11)” with requisite workflow for authentication/ approval (Users’ Heads, Heads of Items’ functional management e.g. ICT items approved by DD-ICT and “Supplies”) complete with embedded email notifications to respective participants		
12.8.2. Provide for display of stock levels on the “Goods Requisition Voucher (S11)” interface		
12.8.3. Provide for definition of interlinked multiple “Stores” interfaces for: Sites (sub-stations/ centers) Functions (Laboratories		

Particulars of Business Function Requirements (ERP)

13. Corporate Services (ERP) – Frameworks Implementation & Monitoring System (FIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
13.1. Frameworks Documentation Management:		
<p>13.1.1. Provide for capture of frameworks (strategies, standards, policies, regulations, procedures, etc) documentations as full file documents in document libraries using the global document management function. The documentation include:</p> <ol style="list-style-type: none"> 1) Strategic Plan 2) Strategies e.g. HR, productivity management (PM), science technology and innovation (STI), etc. 3) Standards (Quality [ISO/IEC 9001], Risk [ISO/IEC 31000], Information Security [ISO/IEC 27001], etc.) 4) Policies 5) Guidelines 6) Protocols 7) Procedures 8) Workplans 		
13.1.2. Provide for document versioning/ control		
13.1.3. Provide for document review workflow		
<p>13.1.4. Provide for on-the fly user defined data forms creation for capture of tabulated implementation frameworks including for:</p> <ol style="list-style-type: none"> 1) Strategic Plan (SP) 2) Strategies e.g. productivity management (PM), science technology and innovation (STI), etc. 3) Standards (Quality [ISO/IEC 9001], Risk [ISO/IEC 31000], Information Security [ISO/IEC 27001], etc.) 4) Policies 5) Workplans 		
13.2. Frameworks Implementation Monitoring:		
13.2.1. Provide for audit scheduling and automated email notification to participants		
<p>13.2.2. Provide for on-the fly user defined data forms creation for among others:</p> <ol style="list-style-type: none"> 1) Information submission by Auditees 2) Documents submission 		
13.2.3. Provide for audit response workflow		
13.2.4. Provide for classification of non-conformities into three categories:		

Particulars of Business Function Requirements (ERP)

13. Corporate Services (ERP) – Frameworks Implementation & Monitoring System (FIMS)

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	1) Major, 2) Minor and 3) Potential		
	13.2.5. Provide for audit follow-up workflow for corrective/preventive actions		
	13.2.6. Provide for sample audit records management in document libraries as full file documents using the “Global Document Management” function		
	13.2.7. Provide for automated report generation with workflow for validation/ approval by participants with automated email notifications for responses		

Particulars of Business Function Requirements (ERP)

14. Corporate Services (ERP) – Financial Management Information System (FMIS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
14.1. General ledger (GL):		
14.1.1. Provide for dynamic definition of GL accounts vis-à-vis: i) Directorate; ii) Division; iii) Unit; iv) Section; v) Project; and vi) Committee		
14.1.2. Provide for ability to specify sub-accounts within the accounts e.g. project within a program or committee within a department;		
14.1.3. Provide for correcting adjustments to the GL via “Journal Vouchers”		
14.2. Budgeting:		
14.2.1. Provide for specification of activities/ items and their requisite funding (capex & opex) at divisional/ unit/ sectional/ program/ project/ committees’.		
14.2.2. Provide for ability to link budgeted activities to the activities defined under overarching implementation frameworks such as strategic plan (SP), performance contracting (PC), productivity measurement and improvement (PMI), science technology and innovation (STI) among others (captured separately in the ERP under other modules such as planning)		
14.2.3. Provide for inclusion of narration field of budget activities		
14.2.4. Provide for budget review/ adjustment workflow and approval by Budget committee (provide for attachment of committee meeting minutes), Head of Finance (HoF) and CEO.		
14.2.5. Provide for automated compilation of the “Management Approved Budget”		
14.2.6. Provide for automated compilation and publishing of the approved “Management Approved Budget”		
14.2.7. Provide for “Management Approved Budget” format to be consistent with and exportable to GIMIS		
14.2.8. Provide for budget adjustment workflow and approval by the Board (provide for attachment of Board minutes excerpt)		
14.2.9. Provide for automated compilation and publishing of the approved “Board Approved Budget”		
14.2.10. Provide for budget adjustment workflow and approval by the ‘Ministry’ (provide for attachment of ‘Ministry’ approval memo)		

Particulars of Business Function Requirements (ERP)

14. Corporate Services (ERP) – Financial Management Information System (FMIS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
14.2.11. Provide for automated compilation and publishing of the approved “Ministry Approved Budget”		
14.2.12. Provide for <u>Supplementary Budget</u> adjustment workflow and approval by the ‘Management’, ‘Board’ and ‘Ministry’ (provide for attachment of approval documentations)		
14.2.13. Provide for <u>Budget transfer</u> workflow and approval by the ‘Management’ and/ or ‘Board’ (provide for attachment of approval documentations)		
14.2.14. Provide for automated compilation of <u>annual procurement budget</u> from available “approved” budget for export to the eGP		
14.3. Accounts Payables (Internal):		
14.3.1. Provide for requisitioning for salary, imprest/ allowances/ low-value purchases by staff		
<p>14.3.2. Provide for budget control for internal requisitions, all “Requisition Forms” (Imprest, DSA, low-value goods requisition, transport/ travel, etc):</p> <ol style="list-style-type: none"> 1) Must be linked to specific GL accounts/ budget lines 2) Enforce single DSA per staff at any point in time 3) Must display “Budget Balance Before” and “Budget Balance After” 4) For ‘NIL’ budget, affected “Requisition Forms” must remain inactive <p>14.3.3. Provide interface for “surrender” of imprests received by respective staff upon completion of intended task</p> <ol style="list-style-type: none"> 1) Provide for timelines for execution of “surrender” expiry of which no new imprests will be issued 2) Provide for list of requisite attachments to be included as part of surrender and provide for full file upload of scanned documents into the GDMS 3) Provide workflow for approval of surrender by respective Heads and finance personnel 		
<p>14.3.4. Provide for online Staff Advance Requisition via “Staff Advance Requisition Form”</p> <ol style="list-style-type: none"> 1) Provide for link to payroll module and automated calculation of eligible amount based on amount requested, one third rule and deduction period 2) Provide for automated posting of staff debtors to the GL and allow payment via EFT 		

Particulars of Business Function Requirements (ERP)

14. Corporate Services (ERP) – Financial Management Information System (FMIS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
3) Provide for requisite workflow (HR, Finance, Recipient) for authentication/ approval complete with embedded email notifications to respective participants 4) Provide for automated execution of payroll deduction.		
14.3.5. Provide for GL posting with interface for journal ledger viewing by respective staff		
14.3.6. Provide for “surrender” interface for payments received by “recipients” with requisite workflow for authentication/ approval complete with embedded email notifications to respective participants.		
14.3.7. Provide for upload of support documents (e.g. approval memo, back-to-office report, attendance sheets, etc.) and workflow for authentication/ approval (complete with embedded email notifications to respective participants) prior to posting in the requisite journal by Accountant		
14.3.8. Provide for bidirectional e-mail notification along the workflow for payment requests up to funds remittance and eventual surrender.		
14.3.9. <i>Accounts payable (External)</i> : invoice receipt, payment, and GL posting		
14.3.10. Accounts payables integration with third party applications e.g. bank for electronic payment and KRA for eTIMS reconciliation, EGP, GIMIS, ECitizen, etc.		
14.3.11. Prompt update of fixed assets for capital purchases		
14.3.12. Provide for bidirectional e-mail notification along approval workflow for pending/ paid invoices and other payment requests		
14.3.13. Provide for upload of support documents (e.g. invoice, delivery notes, receipts, LPO, etc.) and workflow for authentication/ approval prior to posting in the requisite journal by Accountant		
14.4. Accounts receivable:		
14.4.1. Sales/ cash receipting and banking and GL posting.		
14.4.2. Link to eCitizen for sales receipting and to KRA for tax remittance reconciliation.		
14.4.3. Link to third party applications {EGP, GIMIS, BANKs, KRA, ECitizen}		
14.4.4. <i>Debtors and Invoicing</i> : Provide for invoicing of credit services and posting of journal vouchers and GL		
14.5. Bank Reconciliation:		

Particulars of Business Function Requirements (ERP)

14. Corporate Services (ERP) – Financial Management Information System (FMIS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
14.5.1. <i>Provide</i> for automated bank reconciliation		
14.5.2. <i>General</i> Ledger Reconciliation: Provide for automated all General Ledger Reconciliation		
14.6. Audit Schedules:		
14.6.1. Provide for automated generation of audit schedules for General Ledger accounts		
14.7. Financial Reporting:		
14.7.1. Provide for automated generation of: 1) Statement of Financial Performance; 2) Statement of Financial Position; 3) Cashflow Statement		
14.8. Management Reporting:		
14.8.1. Provide for on the fly report generation for management accounting		
14.9. Fixed Assets Register:		
14.9.1. Register to include the following fields: 1) Asset Description; 2) Code; 3) Label; 4) Serial No; 5) Location; 6) Assignee; 7) Date of Purchase; 8) Initial Cost; 9) Rate of Depreciation; 10) Accumulated depreciation; 11) Net Book Value; 12) Insurer; 13) Insurance Premium; 14) Other details.		
14.10. Assets Management:		
14.10.1. <i>Include</i> “Function-specific” interfaces subject to the asset i.e. different interface for: 1) “ICT-related assets”, 2) “Fleet-related assets”, 3) “Estates-related assets” 4) “Laboratory-related assets” 5) “Irrigation-related assets” 6) “Farm-related assets” 7) “Specific-programme-related assets”		
14.10.2. <i>Respective</i> “Function-specific” Fixed Assets Register interfaces to capture operational details: 1) Operational Status 2) Details of Maintenance/ Support/ Consumables/ Parts Replacement (dates, works description, costs, link to supplies requisition module)		
14.10.3. Restrict access of the various operational interfaces to relevant functions’ personnel only. e.g. computers restricted to ICT staff, Fleet restricted to transport staff		
14.10.4. <i>Assets Movement</i> : Provide for online movement request and approval workflow (source & destination Users and Heads)		

Particulars of Business Function Requirements (ERP)

14. Corporate Services (ERP) – Financial Management Information System (FMIS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
via a “Movement Request” form with final approval by respective assets’ functional deputy/ assistant directors.		
14.10.5. Provide for acknowledgement of asset’s receipt/ movement by both the “Recipient Officer” and the Head of Supplies whereby requirement to amend the “Asset Label” (ownership) for “long-term” movements/ transfers is enforced. 14.10.6. Distinction of asset movement duration vis-s-vis “long-term”/ “short-term” movements/ transfers to be enforced		
14.10.7. Provide for printing of a fully executed movement form to act as “Gate Pass” with space for physical signing at the gate and by the intended recipient for movement outside respective stations		
14.10.8. Upon change of “Asset Label” or upon acknowledgement of receipt of asset by the “Recipient Officer” provide for automated notification of the movement via email to relevant approving offices		

Particulars of Business Function Requirements (ERP)

15. Corporate Services (ERP) – Human Resources Information Management System (HRIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
15.1. HR Document Management:		
15.1.1. Provide for storage of HR documents (“HR Strategy”, “Scheme of Service”, “Terms and Conditions of Service”, “Job Descriptions”, “Training Muster Plan” and “Training and Development Profile”) in the “Global Document Management System”		
15.1.2. Provide for capture, in the database, of key tables from the HR documents such as “staff establishment matrix”, “grading structure”, among others		
15.2. Staff Records Management:		
15.2.1. Provide for capture all “Employee Details”: - Academic; Professional; Work Experience; Employment (Dates of employment and confirmation, grade, position, station, directorate, division/ unit, section, etc); Personal (Spouse, Children, Birthdays); etc		
15.2.2. Provide for standard form to capture the “Curriculum Vitae” of all staff		
15.2.3. Provide for attachment of copies of scanned documents uniquely linked to each staff using the “Global Document Management System”		
15.2.4. Provide for application/ wizard to generate user-defined reports from the staff records including meta data linking to stored documents		
15.3. Temporary-contract Staff Management:		
15.3.1. Provide for requisition for “temporary-contract staff” via the “Staffing Requisition Form” with requisite workflow for authentication/ approval complete with embedded email notifications to respective participants		
15.3.2. Provide for capture of registration details of temporary-contract staff details including: Full Names, Full National ID details, Education & Professional Qualifications, Work Experience, Duration of Experience, Area of Residence		
15.3.3. Provide for automated compilation of the temporary-contract staff requisitions and generation of a “Temporary-contract Staff Requirements” report		
15.4. Staff Recruitment:		
✓ Provide for native and extensible capabilities for the full (end-to-end) staff recruitment process		

Particulars of Business Function Requirements (ERP)

15. Corporate Services (ERP) – Human Resources Information Management System (HRIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
15.4.1. Provide for automatic generation of a “Vacancy Notice” based on HR documents such as “Job Descriptions” and “Staff Establishment” among others		
15.4.2. Provide for automated upload of vacancy onto a natively generated web portal for online access by applicants:		
15.4.2.1. Allow candidates to view jobs, create profiles, submit applications, upload resumes/ supporting documents, track application status, and withdraw if needed.		
15.4.2.2. Provide for applications and documents flow directly into the “Global Document Management System” and linked to applicant records		
15.4.3. Provide for interview scheduling and scoring:		
15.4.3.1. Provide for Interviewers to provide feedback/ scores directly via online forms that update the system automatically.		
15.4.3.2. Provide for capture of structured interview scores and notes.		
15.4.4. Provide for recruitment process reporting: built-in dashboards, analytics, and reporting on metrics like time-to-hire, and diversity.		
15.4.5. Provide for transition to employee in seamless handover from candidate to new hire record		
15.5. Leave Management:		
15.5.1. Provide for application for Leave (and adjustment thereof after “recall” or other valid reason) to be done online via “Leave Request Form” with requisite workflow for authentication/ approval complete with embedded email notifications to respective participants (various Heads, and “HR”)		
15.5.2. Provide for generation of “Annual Leave Schedule” at various levels of the organization		
15.5.3. Provide for staff access to respective leave history		
15.6. Off Duty Management:		
15.6.1. Provide for requisition for off duty via an online “Off-Duty” form with requisite workflow for authentication/ approval complete with embedded email notifications to respective participants (various Heads, and “HR”)		
15.6.2. Provide for enforcement of limit of cumulative Off-Duty at 10 days per year		

Particulars of Business Function Requirements (ERP)

15. Corporate Services (ERP) – Human Resources Information Management System (HRIMS)		
<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
15.6.3. Provide for Off-Duty history to be accessible to respective Staff		
15.7. Staff Duty Attendance:		
15.7.1. Provide for location independent online capture of ‘duty reporting’ and ‘duty sign-off’ by all staff using the “Global Online Data Collection System”		
15.7.2. Provide for online capture of ‘duty reporting’ details for permanent staff including: names, personnel number, date, time, category (normal, field, leave, off-duty), reporting location name (for normal/ field category), purpose of field duty, field duty approval (attach approval memo)		
15.7.3. Provide for online capture of ‘duty sign-off’ details for permanent staff including: time, approval of early sign-off (attach memo)		
15.7.4. Provide for online capture of ‘duty reporting’ details for temporary-contract staff including: names, telephone number, assigned identification number, date, time, category (office, field), reporting location name (station; division/ unit/ section), purpose of duty		
15.7.5. Provide for online capture of ‘duty sign-off’ details for temporary-contract staff including: time, approval of early sign-off (attach memo)		
15.7.6. Provision for capture of automated time and attendance input from attendance monitoring devices (card, biometric, etc)		
15.8. Payroll Management:		
15.8.1. Provide for capture of standard payroll details		
15.8.2. Provide for authentication of “payroll totals” by HR and Finance and automated email notification to Accounts to execute payment		
15.8.3. Provide for logging of pay change via “Pay Change Advice” (PCA) form with attendant workflow and email notification to relevant participants		
15.8.4. Provide for approval and payment of payroll payment by Director and Head of Finance within finance module		
15.8.5. Provide for payslips to be delivered by email and formatted for hard-copy printout		
15.9. Salary Advance:		

Particulars of Business Function Requirements (ERP)

15. Corporate Services (ERP) – Human Resources Information Management System (HRIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
15.9.1. Provide for Salary Advance Requisition via “Salary Advance Requisition” form with attendant workflow and email notifications to relevant participants		
15.9.2. Provide for auto-calculation on amount requested, deduction period, 1/3 rule		
15.9.3. Provide for automated posting of staff debtors to the GL and allow for payment via EFT		
15.10. Staff Training:		
15.10.1. Provide for application for training via the “Training Request Form” with attendant workflow and email notification to relevant participants		
15.10.2. The training form to include details including: training category i.e. long/ short term; training institution; training duration; training cost, training certification; training need; etc		
15.10.3. Provide for automated extraction of training needs from “Performance Appraisal” forms		
15.10.4. Provide for training approval process by relevant committee and enforcement of “Training Approval Criteria” to be applied e.g. training history, departmental allocation, training & development plan, urgency rating, etc.		
15.10.5. Provide for automated generation of “Approved Training Schedule” and final approval by the CEO		
15.10.6. Provide for invocation of accounts payable procedure directly from the “Approved Training Schedule” through attachment of requisite documentation for payment		
15.10.7. Provide for “Training Appraisal Form” to capture training reports appraisal/ feedback data		
15.10.8. Provide for capture of full file reports and certificates vide the “Global Document Management System”		
15.11. Staff Performance Appraisal:		
15.11.1. Provide for automated generation of “Performance Appraisal Form” for each staff using the “Mail Merge-Style Document Generation” based on “actual tasks” specified in the “PC_Annex_II_Appraisal_<<Staff PNo.>>” and full file Microsoft Word template uploaded into the document library		
15.11.2. Provide for workflow for performance appraisal between staff and their immediate supervisors based on evidence uploaded under the “PC_Annex_II_Appraisal_<<Staff PNo.>>” table		

Particulars of Business Function Requirements (ERP)

15. Corporate Services (ERP) – Human Resources Information Management System (HRIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
15.11.3. Provide for automated computation of performance appraisal scores		
15.11.4. Provide for automated generation of full performance appraisal report for each staff using the “Mail Merge-Style Document Generation” function encompassing computed scores and other requisite documentation.		
15.11.5. Provide for automated ranking of performance appraisal scores for all staff		
15.12. Employee Satisfaction Survey:		
15.12.1. Provide creation of on-the-fly user defined questionnaires accessed via shared URL link		
15.12.2. Provide for capture of survey data using the “Global Online Data Collection System”		
15.12.3. Provide for automated report generation		
15.13. Staff separation:		
15.13.1. Provide for capture of clearance information via the “Clearance Form” using the “Global Document Management System” with attendant workflow and email notification to relevant participants		
15.13.2. <u>Handing-over</u> : Provide for capture of Handing-over/ Taking-over details including: Date; Equipment ID/ Name; Condition; Current User; Expected User; Authorisation by relevant Heads 15.13.3. Provide for capture of full file handing-over report using the “Global Document Management System”		

Particulars of Business Function Requirements (ERP)

16. Corporate Services (ERP) – Business Information Management System (BIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
Farm Management		
16.1. Farm Assets Usage and Maintenance:		
16.1.1. Provide interface linked to farm assets (plant machinery) registry with additional fields to edit status including: insurance, inspection, maintenance (including scheduling) and other parameters.		
16.1.2. Provide for user-defined forms for update of farm assets to include land, biological assets and other assets not captured centrally under finance asset registry function		
16.1.3. Provide for Farm Module Setup interface to pre-input variable operational parameters (mechanical, operational, inputs): - item code, ploughing/mouldboard/disc, harrowing, furrowing, cane loading, cane transport, inter-row cultivation, bush clearing, harvesting, shifting, planting, gapping, fertilizer application, chemical application, seed treatment, seed preparation, roguing, weeding, border maintenance, trash lining, mulching (quantity, unit, rate, cost, etc		
16.1.4. Provide for usage requisition of plant machinery with approval workflow and email notification to participants		
16.1.5. Provide for feedback/ problem reporting by staff, ticket generation, processing workflow and reporting		
16.1.6. Provide for capture of ticket processing works details including dates, personnel, vendors, works undertaken, parts replaced, remarks, user feedback, etc		
16.2. Land Allocation:		
16.2.1. Provide for dynamic ad-hoc partitioning of a field and hierarchical numbering		
16.2.2. Provide for capture of the following field details: Number, surface area, Crop, crop cycle, soil type, utilization, variety, date last planted/ harvested, age(months), location , major soil analysis (pH, etc.)		
16.2.3. Provide interface for land request by staff that includes workflow for approval complete with email notifications among participants		
16.2.4. Provide for automated generation of “Land Allocation Schedule” based on approved land requests		

16.2.5. Provide for modification of land use requirements and “Land Allocation Schedule” via a change request by User and validation and approval by Farm Manager.		
16.3. Land Management:		
16.3.1. Provide interface for request for land and land management services (land preparation, drainage, etc) with workflow for approval complete with email notifications among participants		
16.3.2. Provide for “land services” ticket generation, processing workflow and progress reporting		
16.3.3. Provide for real time capture of land preparation activities details e.g. ploughing (disc, mouldboard, etc), harrowing, irrigation/ drainage, etc, dates (start, completion), field numbers, inputs (fuel, lubricants, etc), cost (computed from rates in the setup section)		
16.3.4. Provide for land preparation activities details’ validation and approval workflow (Supervisor/ Technician, and Farm Manager Level) and email notification to participants including the customer		
16.3.5. Provide for capture of costs (inputs, labor, equipment hire, fuel, etc) with approval workflow		
16.3.6. Provide for document attachment (e.g. sales receipts, register images, weighbridge records, delivery notes etc.) and storage using the “Global Document Management Function” with approval workflow		
16.4. Crop Establishment and Maintenance:		
16.4.1. Provide interface for request for crop establishment and maintenance services (planting, inputs/ chemical application, weeding, harvesting, etc) with workflow for approval complete with email notifications among participants and feedback		
16.4.2. Provide an interface for task assignment ticket generation and processing workflow for land allocation, crop scheduling, crop establishment, input application, reporting, feedback.		
16.4.3. Provide for capture of costs (inputs, labor, equipment hire, fuel, transport/ distribution costs, etc), delivery note details, revenue (sales computation) and computed indices e.g. productivity with approval workflow		
16.4.4. Provide for document attachment (e.g. sales receipts, register images, weighbridge records, delivery notes etc) and storage using the “Global Document Management Function” with approval workflow		

16.4.5. Provide for automated generation of Invoice		
16.4.6. Provide interface for report generation		
Business Management		
16.5. Business Planning:		
16.5.1. Provide for capture of full file business plans into the document libraries using the “Global Document Management System”		
16.5.2. Provide for user-defined forms for capture of logframes for proposed business plans		
16.5.3. Provide for linkage of business plan logframes to “management approved budget” and “annual procurement plan (APP)” imported from eGP		
16.6. Business Plan Implementation:		
16.6.1. Provide for task generation from business plan logframes and work ticket assignment with email notification to participants		
16.6.2. Provide for capture of income and expenditure data in real-time with approval workflow		
16.6.3. Provide for automated analyses including profit/ loss, break-even, gross margin, etc.		
16.6.4. Provide for capture of documents including progress reports, etc. as full file documents into the document libraries using the “Global Document Management System”		

Particulars of Business Function Requirements (ERP)

17. Corporate Services (ERP) – Customer Relationship Management System (CRM)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
17.1. CRM Database:		
17.1.1. Provide for capture of the following databases:		
17.1.1.1. Customer Database (Institute’s products and services):		
1) Farmers database: farmer names, phone number, email address, sugar zone, nearest landmark (e.g. shopping centre, institution (school, religious, etc.), GPS locations of farms, farm acreage available for sugarcane, etc.		
2) Institutional customers database (millers, universities, private sector, international partners, funding agencies, government bodies, sugar industry organizations, institutional users of research outputs, and other partners and collaborators): institution names, phone number, email address, sugar zone, nearest landmark (e.g. shopping centre, institution (school, religious, etc.), GPS locations of institution, contact person(s), products sourced		
17.1.1.2. Database if all the products and services provided by the Institute including specifications/ attributes/ descriptions, costs, duration to delivery, location of availability, etc. (<i>consistent with the service charter</i>)		
17.1.1.3. Database contacts of specific staff to be contacted for each area of specialization (<i>link to HR module</i>)		
17.2. Public Information Request:		
17.2.1. Provide for multi-channel public information request via email, phone, SMS, WhatsApp/ business messaging, web portals, social media, field visits, or in-person events. Automated capture from integrated tools reduces manual entry		
17.2.2. Provide for public information request ticket generation and workflow for assignment to experts, escalation, and resolution tracking with SLAs (service level agreements) consistent with service charter timelines.		
17.2.3. Provide for public information request feedback handling (queries, complaints, requests, etc.) from stakeholders (farmer, millers, etc.) via online self-administered forms		

Particulars of Business Function Requirements (ERP)

17. Corporate Services (ERP) – Customer Relationship Management System (CRM)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
17.2.4. Provide for public information request report generation in the format provided by performance contracting requirements		
17.3. Interaction and Communication Management:		
✓ Track and streamline all contact points to build stronger relationships and improve service delivery		
17.3.1. Provide for multi-channel record logging of interactions via email, phone, SMS, WhatsApp/ business messaging, web portals, social media, field visits, or in-person events. Automated capture from integrated tools reduces manual entry		
17.3.2. Provide for case and advisory management feedback handling (queries, complaints, requests, etc.) from stakeholders (farmer, millers, etc.)		
17.3.3. Provide for case and advisory ticket generation and workflow for assignment to experts, escalation, and resolution tracking with SLAs (service level agreements) consistent with service charter timelines.		
17.3.4. Provide for knowledge base integration for quick reference during interactions through links to:		
1) Requisite documents in document libraries under the “Global Document Management System”		
2) Application programming interfaces (APIs) to large language model applications that consolidate information on sugar research outputs from both local, regional and international sources		
17.3.5. Provide for automated advisory services report generation of <i>response times</i> in service provision in the format required by performance contracting		
17.3.6. Provide for scheduling and tracking of awareness campaigns conducted via bulk SMS/ email or personalized messages (based on stakeholder profiles) for outreach and notification tools: (such as new variety releases, training workshops, or disease alerts)		
17.4. Collaboration and partnership:		
17.4.1. Provide for user-defined on-the-fly forms for establishing ‘activity’ consortia with approval workflow for joint projects, technology development agreements, among others		

Particulars of Business Function Requirements (ERP)

17. Corporate Services (ERP) – Customer Relationship Management System (CRM)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
17.4.2. Provide for capture of full file documentation of consortia including concept, initial contact, joint proposal, active project, among others into the document libraries under the “Global Document Management System”		
17.4.3. Provide for ticket generation and assignment covering activity’ consortia tasks		
17.4.4. Provide for online link for self-administered user-defined feedback form and alternative capture of full file scanned copies of hardcopy feedback forms into the document libraries using the “Global Document Management System”		
17.4.5. Provide for online link for self-administered user-defined data collection form for research data collection into the database		
17.4.6. Provide for export of data into spreadsheet for onward upload to third party analysis tools		
17.5. On-farm Demos and Adaptive Trials Management:		
17.5.1. Provide for user-defined on-the-fly forms for requisitioning for demo or adaptive trial establishment including approval workflow with email notification to participants		
17.5.2. The form should capture the concept (full file document in the document libraries) and details of the demo or adaptive trial establishment including the budget that should be linked to the “management approved budget”		
17.5.3. Provide for ticket generation and assignment covering demo or adaptive trial establishment tasks including: 1) communication/ promotion 2) service providers (venue, land preparation, cane maintenance, etc.), 3) risk assessment (safety, accessibility, viability, sustainability, etc.) and regulatory compliance 4) participants engagement (link to customer database for update/ interaction history) 5) stakeholders visit coordination, attendee experience monitoring and incidents handling, feedback collection		
17.5.4. Reporting:		
17.5.4.1. Provide for online link for self-administered user-defined feedback form and alternative capture of full file scanned copies of hardcopy feedback forms into the document libraries using the “Global Document Management System”		

Particulars of Business Function Requirements (ERP)

17. Corporate Services (ERP) – Customer Relationship Management System (CRM)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
17.5.4.2. Provide for online link for self-administered user-defined data collection form for research data collection into the database		
17.5.4.3. Provide for export of data into spreadsheet for onward upload to third party analysis tools		
17.6. Events Management:		
✓ Planning, managing, and executing corporate events organized, sponsored, or hosted by KESRETI, including internal (workshops, seminars, staff/ Board meetings, etc.) and external events (field days, open days, ASK shows, farmer visits, stakeholder trainings, networking sessions, etc.). Supports logistics, communication and operational execution.		
17.6.1. Provide for user-defined on-the-fly forms for requisitioning for event management services including approval workflow with email notification to participants		
17.6.1.1. The form should capture the concept (full file document in the document libraries) and details of the event including the budget that should be linked to the “management approved budget”		
17.6.2. Provide for ticket generation and assignment covering event tasks including: 1) marketing/ communication/ promotion 2) service providers (venue, catering, technology and transport, etc.), 3) risk assessment and regulatory compliance (insurance, health, safety, accessibility, inclusiveness etc.) 4) participants registration (link to customer database for update/ interaction history) 5) agenda and speakers coordination, attendee experience monitoring and incidents handling, feedback collection 6) reporting		
17.6.3. Provide for online link for self-administered user-defined feedback form and alternative capture of full file scanned copies of hardcopy feedback forms into the document libraries using the “Global Document Management System”		
17.7. Customer Interaction and Feedback:		
✓ To capture general feedback, complaints and compliments		
17.7.1. Provide for online link for self-administered user-defined feedback form and alternative capture of full file		

Particulars of Business Function Requirements (ERP)

17. Corporate Services (ERP) – Customer Relationship Management System (CRM)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
scanned copies of hardcopy feedback forms into the document libraries using the “Global Document Management System”		
17.7.1.1. Provide for interaction history: Logs contact points including emails, meetings, calls, site visits, training/ outreach events (farmer/ ToT training, field/ open days, shows, random individual interactions, etc.), grant proposal submissions, feedback, etc.		
17.7.1.2. Provide for capture of interaction timestamps, full-file attachments into document libraries, and context (such as linking a meeting to a specific training/ outreach activity, grant or project)		
17.7.1.3. Provide for relationship scoring or mapping through tracking of relationship strength, influence, or collaboration potential		
17.7.1.4. Provide for automated feedback and complaints report generation in the format required by performance contracting		
17.8. Grant and Funding Management:		
✓ Tracks funding granted to qualifying entities by KESRETI		
17.8.1. Provide for user-defined forms for funding identification by relevant committees: 1) identification of potential areas for funding, 2) concept development workflows, 3) deadline tracking, etc.		
17.8.2. Provide for automatic generation of a “Opportunity Notice” based on grant policy and regulations such as that for “Concept” and “Proposal” among others		
17.8.3. Provide for automated upload of grant opportunity onto a natively generated web portal for online access by applicants		
17.8.4. Provide for candidates for grant opportunities, create profiles, submit applications, upload concepts/ proposals/ supporting documents, track application status/ deadlines, and withdraw if needed.		
17.8.5. Provide for applications and documents flow directly into the “Global Document Management System” and linked to applicant records		
17.8.6. Provide for interview scheduling and scoring:		
17.8.6.1. Provide for Interviewers to provide feedback/ scores directly via online forms that update the system automatically		

Particulars of Business Function Requirements (ERP)

17. Corporate Services (ERP) – Customer Relationship Management System (CRM)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
17.8.6.2. Provide for capture of structured interview scores and notes		
17.8.6.3. Provide for grant funding process reporting: built-in dashboards, analytics, and reporting on metrics like time-to-hire, and diversity.		
17.8.7. Provide for transition to payables in finance module in seamless handover from applicant to new customer		
17.8.8. Provide for user defined forms for post-award management to capture milestones, reporting, renewals, etc.		
17.9. General Field Activities:		
17.9.1. Provide for user-defined online forms for capture of details of general field activities with approval workflows and email notification to participants 17.9.1.1. Provide for attachment of full-file documentation (memos, proposals, etc.) 17.9.1.2. Provide for data capture into the database on site 17.9.1.3. Provide for automated report (back-to-office) generation based on data captured and uploaded documentation with approval workflow		
17.10. Outreach Services:		
○ Field Day, Open Day, ASK Show, Exhibition and Farm Visit		
17.10.1. Provide for capture of distinct “Annual Outreach Event Schedules” (Field Day, Open Day, ASK Show, Exhibition and Farm Visit), with concurrence/ approval workflow and email notifications to participants		
17.10.2. Provide for meta-data in an “Outreach Event” schedule linking to “management approved budget” and “annual procurement plan”		
17.10.3. Provide for capture of an “Outreach Event’s” “Programme”, “Working Budget” with workflow for approval by relevant committees and function Heads complete with email notifications to participants		
17.10.4. Provide for ticket generation for implementation of an “Outreach Event” with approval workflow and email notifications to participants		
17.10.5. Provide for development of user-defined, on-the-fly “Feedback Forms” unique to requirements of each “Outreach Event” through the CRM module that is to be hosted internally, and access shared via URL		

Particulars of Business Function Requirements (ERP)**17. Corporate Services (ERP) – Customer Relationship Management System (CRM)**

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
17.10.6. Provide for assisted administration of feedback forms online via URL link		
17.10.7. Provide unique standard “Outreach Event” report interface that includes analysis of feedback and recommendations from a given “Outreach Event” among other information		
17.10.8. Provide for upload of an “Outreach Event’s” full-file documentation into the document libraries using the “Global Document Management System”		

Particulars of Business Function Requirements (ERP)

18. Corporate Services (ERP) – ICT Helpdesk System (IHS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
18.1. Service Request & Incident Management:		
18.1.1. Provide for online self-service interface for standard service requests with automated approval workflows for common requests		
18.1.2. Provide for catalogue of available ICT services with request tracking		
18.1.3. Provide for an online interface for logging of ICT support requests (helpdesk tickets) via self-administration or by ICT personnel (portal, email, phone, or walk-in)		
18.1.4. Provide for integration with knowledge base for self-service resolution		
18.1.5. Provide for automated ticket categorization, prioritization (based on SLA, impact, urgency)		
18.1.6. Provide for ticket generation and processing including dates, personnel, vendors, works undertaken, parts replaced, remarks, user feedback, etc		
18.1.7. Provide for incident tracking		
18.1.8. Provide for real-time dashboard for open, pending, and resolved tickets		
18.1.9. Provide for feedback reporting and ticket closure by staff		
18.2. Problem Management:		
18.2.1. Provide for automated identification and logging of recurring incidents as problems as well as linking of problems to multiple related incidents		
18.2.2. Provide for root cause analysis, workaround and permanent fix documentation as full files in libraries using "Global Document Management System"		
18.3. Change Management:		
18.3.1. Provide for interface for request for Change (RFC) submission and approval workflow		

Particulars of Business Function Requirements (ERP)

18. Corporate Services (ERP) – ICT Helpdesk System (IHS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
18.3.2. Provide for capture of documentation on impact assessment on ICT infrastructure and services, and post-change review and rollback planning		
18.4. Asset & Configuration Management (CMDB)		
18.4.1. Provide for interface linked to ICT assets registry with additional fields to edit status including insurance, inspection, maintenance (including scheduling) and other parameters		
18.4.2. Provide for configuration item (CI) tracking and relationships mapping		
18.4.3. Provide for software license compliance tracking		
18.5. Service Level Management:		
18.5.1. Provide for interface to capture trackable metrics of SLAs, OLAs, and Underpinning Contracts into the database as well as upload of full file documentation into the document libraries using the “Global Document Management System”		
18.5.2. Provide for automated SLA breach alerts and reporting		
18.5.3. Provide for capture of performance metrics and performance dashboard (resolution time, response time, uptime)		
18.6. Knowledge Management:		
18.6.1. Provide for creation and maintenance of knowledge base articles both as database entries of meta data and full file documentation using the “Global Document Management System”		
18.6.2. Provide for self-service portal for end-users (FAQs, how-to guides, troubleshooting)		
18.6.3. Provide for searchable knowledge repository with version control and		
18.6.4. Provide for auto-generation of solution packages from knowledge repository with linking to tickets for faster resolution		
18.7. ICT Project Management:		
18.7.1. Provide for an online user-defined interface for tracking of ICT projects		
18.7.1.1. Provide for resource allocation and operational support		
18.7.1.2. Provide for configuration of automated report generation		
18.8. Monitoring & Reporting:		

Particulars of Business Function Requirements (ERP)

18. Corporate Services (ERP) – ICT Helpdesk System (IHS)

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	18.8.1. Provide for online user-defined form for capture of real-time ICT infrastructure monitoring (servers, networks, applications)		
	18.8.2. Provide for automated alerts for downtime or performance issues		
	18.8.3. Provide for comprehensive reporting (KPI dashboards, monthly/ quarterly reports)		
	18.8.4. Provide for configuration of automated report generation for regulatory bodies		
	18.9. Preventive Maintenance & Scheduled Tasks:		
	18.9.1. Provide for user-defined online interface for scheduling of routine maintenance (hardware checks, patch management, backups)		
	18.9.1.1. Provide for automated work ticket generation for preventive tasks		
	18.9.1.2. Provide for capture of ticket processing works details including dates, personnel, vendors, works undertaken, parts replaced, remarks, user feedback, etc.		
	18.9.2. Provide for tracking of warranty and AMC (Annual Maintenance Contract) expirations		
	18.10. Security & Compliance Management:		
	18.10.1. Provide for user-defined online interface for tracking of security incidents and vulnerabilities, patch management and compliance with regulatory cybersecurity policies		
	18.10.2. Problem reporting, ticket generation, processing workflow, reporting, feedback.		

Particulars of Business Function Requirements (ERP)

19. Corporate Services (ERP) – Library Management System (LMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
19.1. Master Data Management:		
19.1.1. Provide for Library catalog / bibliographic database management (books, journals, e-resources, theses, reports, etc.)		
19.1.2. Provide for author, publisher, vendor, and supplier master data		
19.1.3. Provide for member (user) registration and profiling (employees, researchers, students, citizens, etc.)		
19.1.4. Provide for location/ branch management (central library, departmental libraries, centre branches)		
19.1.5. Provide for classification system management (Dewey Decimal, Library of Congress, UDC, or custom government classification)		
19.2. Acquisition & Procurement Management:		
19.2.1. Provide for suggestion / requisition for new resources (by staff or members)		
19.2.2. Provide for link to snapshot of “management approved budget” and annual procurement plan (APP) imported from eGP showing Library items		
19.2.3. Provide for accessioning of new items (auto-generation of accession number)		
19.3. Cataloging & Technical Processing:		
19.3.1. Provide for advanced cataloging (MARC 21 / UNIMARC / Dublin Core support)		
19.3.2. Provide for Z39.50 / SRU client for copy cataloging from external databases		
19.3.3. Provide for barcode/ RFID label generation and printing		
19.3.4. Provide for shelf list/ spine label generation		

Particulars of Business Function Requirements (ERP)

19. Corporate Services (ERP) – Library Management System (LMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
19.3.5. Provide for digital object linking (PDF, e-books, scanned documents)		
19.3.6. Provide for authority control (name, subject, series authorities)		
19.4. Circulation & Membership Services:		
19.4.1. Provide for member check-in/ check-out (issue/ return) with barcode/ RFID		
19.4.2. Provide for due date calculation, renewal, and reservation management		
19.4.3. Provide for fine/ penalty calculation and collection (with government receipt rules)		
19.4.4. Provide for no-dues certificate generation		
19.4.5. Provide for inter-library loan (ILL) management		
19.4.6. Provide for membership validity management and auto-expiry		
19.4.7. Provide for self-check-in/out kiosks integration		
19.5. Serials & Periodical Management:		
19.5.1. Provide for subscription management for journals, magazines, and e-journals		
19.5.2. Provide for prediction and receipt of issues		
19.5.3. Provide for claiming for missing/ non-received issues		
19.5.4. Provide for binding management for back volumes		
19.5.5. Provide for routing slips for current issues		
19.6. Digital Library & E-Resource Management:		
19.6.1. Provide for e-book / e-journal / database subscription management		
19.6.2. Provide for IP-based / SSO / proxy server access control		
19.6.3. Provide for digital repository integration (DSpace, EPrints, or custom)		
19.6.4. Provide for full-text search and discovery		
19.6.5. Provide for usage statistics tracking (COUNTER, SUSHI compliant)		
19.6.6. Provide for Open Access resources management		
19.7. Inventory & Stock Management:		
19.7.1. Provide for physical stock verification (with barcode/RFID handheld support)		

Particulars of Business Function Requirements (ERP)

19. Corporate Services (ERP) – Library Management System (LMS)

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	19.7.2. Provide for weeding / de-accessioning / write-off of obsolete/damaged items (as per government rules)		
	19.7.3. Provide for asset tracking and location mapping		
	19.7.4. Provide for missing / lost item management		
	19.8. User Services & Reference:		
	19.8.1. Provide for online Public Access Catalog (OPAC)/ Web OPAC		
	19.8.2. Provide for advanced search (simple, Boolean, faceted)		
	19.8.3. Provide for current awareness service (CAS) and Selective Dissemination of Information (SDI)		
	19.8.4. Provide for reference query management and tracking		
	19.8.5. Provide for requisition for photocopying/ scanning/ printing		
	19.8.6. Provide for reading room/ seat booking/ facility management		
	19.9. Reporting, Analytics & MIS:		
	19.9.1. Provide for usage statistics (circulation, membership, collection growth)		
	19.9.2. Provide for collection development reports (subject-wise, department-wise)		
	19.9.3. Provide for performance dashboards (KPI tracking)		
	19.9.4. Provide for export to Excel/PDF and integration		
	19.9.5. Provide for custom reports		
	19.10. Compliance & Government-Specific Features:		
	19.10.1. Provide for data retention and archival policy enforcement		
	19.10.2. Provide for audit trail and log management		
	19.10.3. Provide for accessibility compliance (WCAG for OPAC)		
	19.10.4. Provide for role-based access control (RBAC)		
	19.10.5. Additional Advanced Functions:		
	19.10.6. Provide for RFID/ IoT-based smart library automation		
	19.10.7. Provide for mobile app for members (book search, renew, reserve, alerts)		
	19.10.8. Provide for SMS / Email / WhatsApp notification engine		
	19.10.9. Provide for AI-powered recommendation engine		
	19.10.10. Provide for integration with institutional ERP (HR, Finance, Research, among other modules)		

Particulars of Business Function Requirements (ERP)

19. Corporate Services (ERP) – Library Management System (LMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
19.10.11. Provide for cloud or on-premise deployment		

Particulars of Business Function Requirements (ERP)

20. Corporate Services (ERP) – Fleet Management System (FMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
20.1. Vehicle Registration & Master Data Management:		
○ Provide for fleet assets registry as part of centralized assets registry for recording vehicle details: make, model, year, VIN/chassis number, engine number, registration plate, department assignment, location, and asset tag		
20.1.1. Provide interface (linked to centralized fleet assets registry) with additional fields to edit status including: insurance inspection, operational status, categorization (vehicle type, usage {administrative, operational, emergency}, and ownership status), and other parameters		
20.2. Vehicle Maintenance & Workshop Management:		
20.2.1. Provide for preventive and corrective maintenance scheduling (mileage-based, time-based, or condition-based)		
20.2.2. Provide for automated alerts for service due (based on mileage, hours, or time)		
20.2.3. Provide for work order creation, approval workflow, and tracking for repairs		
20.2.4. Provide for maintenance history log for each vehicle		
20.2.5. Provide for spare parts inventory management integrated with general stores module		
20.2.6. Provide for automated alerts for upcoming services, inspections, and license renewals with email notification to respective Heads and all drivers		
20.2.7. Provide for maintenance history and cost tracking per vehicle		

Particulars of Business Function Requirements (ERP)

20. Corporate Services (ERP) – Fleet Management System (FMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
20.2.8. Provide for workshop resource allocation (technicians, bays, tools)		
20.3. Fuel Management:		
20.3.1. Provide for fuel consumption tracking (manual entry or integration with fuel cards/ pumps)		
20.3.2. Provide for fuel issuance and reconciliation per vehicle/ department		
20.3.3. Provide for fuel consumption tracking vs. expected norms, theft/ anomaly detection alerts, and reconciliation of fuel purchases with actual usage		
20.4. Fleet Tracking:		
20.4.1. Provide for real-time GPS/GNSS tracking & monitoring		
20.4.2. Provide for live vehicle location tracking on integrated GIS map		
20.4.3. Provide for real-time speed, direction, ignition status, and odometer reading		
20.4.4. Provide for geofencing: define virtual boundaries for authorized zones (depots, project sites, borders)		
20.4.5. Provide for route adherence monitoring and deviation alerts		
20.4.6. Provide for historical trip playback and breadcrumb trails		
20.4.7. Provide for audit trails for all fleet activities		
20.5. Incident Reporting:		
20.5.1. Provide for incident/accident reporting and investigation workflow with email notification to participants and upload of relevant documentation including photos		
20.6. Fleet Usage:		
20.6.1. Provide interface to fleet request by staff that includes workflow for approval complete with email notifications among participants and upload of approval documentation as full file documentation in libraries		
20.6.2. Provide for ticket generation, processing workflow with approvals/ acceptance by transport personnel		
20.6.3. Provide for capture of ticket processing works details including dates, driver, passenger(s), destination(s), activity summary with link to finance module (imprest requisition, etc), vehicle requirements (fuel, lubricants, etc), etc		

Particulars of Business Function Requirements (ERP)**20. Corporate Services (ERP) – Fleet Management System (FMS)**

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
20.6.4. Provide for safety checklist integration for pre-trip inspections		
20.6.5. Provide for feedback/ problem reporting by staff, feedback ticket generation, processing workflow and reporting		
20.7. Reporting:		
20.7.1. Provide for compliance reporting for government regulations		
20.7.2. Provide for dashboard with key metrics: utilization rate, idle time, mileage efficiency, fuel consumption trends		
20.7.3. Provide for vehicle downtime analysis and availability reports		
20.7.4. Provide for driver performance scoring (based on speed, harsh braking, idling)		
20.7.5. Provide for comparative analysis across departments or vehicle types		
20.7.6. Provide for predictive analytics for maintenance needs		

Particulars of Business Function Requirements (ERP)

21. Corporate Services (ERP) – Estates Management System (EMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
21.1. Asset & Property Register Management:		
21.1.1. Provide interface to estates assets registry with additional fields to edit status including: insurance, inspection, maintenance (including scheduling) and other parameters		
21.1.2. Classification of assets (residential, commercial, office, educational, health, etc.)		
21.1.3. Geo-tagging and mapping of properties using GIS integration		
21.1.4. Unique asset ID and barcode/RFID tagging support		
21.2. Rental/ Lease Management:		
21.2.1. Provide interface for estates request by staff that includes workflow for approval complete with email notifications among participants		
21.2.2. Provide for automated lease agreement creation, renewal, and termination workflows		
21.2.3. Provide for rent/ lease billing, invoicing, and collection with penalty calculation		
21.2.4. Provide for tenant/ lessee database with occupancy status tracking		
21.2.5. Provide for revenue generation tracking from leased properties		
21.2.6. Provide for feedback/ problem reporting by staff, ticket generation, processing workflow and reporting		
21.3. Space & Allocation Management:		
21.3.1. Provide for office space allocation and reallocation for government departments		
21.3.2. Provide for desk/hot-desking management and utilization reporting		
21.3.3. Provide for booking system for meeting rooms, auditoriums, guest houses, and hostels		
21.3.4. Provide for space utilization analytics and optimization recommendations		
21.4. Maintenance & Facility Management:		
21.4.1. Provide for preventive and corrective maintenance scheduling for buildings and infrastructure		

Particulars of Business Function Requirements (ERP)

21. Corporate Services (ERP) – Estates Management System (EMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
21.4.2. Provide for work order generation, assignment, and tracking (internal teams or outsourced contractors) with validation/ approval workflow and email notification to participants		
21.4.3. Provide for maintenance history and asset condition monitoring		
21.4.4. Provide for facility inspection checklists and compliance audits		
21.4.5. Provide for feedback/ problem reporting by staff, ticket generation, processing workflow and reporting		
21.4.6. Provide for capture of ticket processing works details including dates, personnel, vendors, works undertaken, parts replaced, remarks, user feedback, etc		
21.5. Project & Construction Management:		
○ Provide for tracking of new infrastructure development and renovation projects		
21.5.1. Provide for link to “management approved budget” and eGP-imported annual procurement plan (APP)		
21.5.2. Provide for project milestone tracking, Gantt charts, and progress reporting		
21.5.3. Provide for quality control and handover processes for completed projects		
21.6. Inventory & Stores Management (for Estates):		
21.6.1. Provide link to stores module to view and request for maintenance materials, spares, and consumables		
21.6.2. Provide for stock tracking, issue/receipt, and reorder level alerts		
21.7. Compliance, Safety, Utilities, Legal & Sustainability Management:		
21.7.1. Provide for user-defined forms to capture assets/ equipment and details for regulatory compliance tracking (fire safety, structural audits, environmental assessment, accessibility standards); license and permit management; risk assessment and incident reporting for estates; legal case tracking related to properties (encroachment, disputes, eviction); emergency response plans and asset vulnerability assessment; insurance management; among others		
21.7.2. Provide for user-defined forms to capture utility consumption tracking (electricity, water, fuel) with meter reading integration		

Particulars of Business Function Requirements (ERP)**21. Corporate Services (ERP) – Estates Management System (EMS)**

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
21.7.3. Provide for user-defined forms to capture energy efficiency monitoring and green building compliance 21.7.4. Provide for user-defined forms to capture waste management		
21.8. Document & Record Management:		
21.8.1. Provide for centralized repository for property deeds, blueprints, drawings, agreements, and photos		
21.8.2. Provide for version control and digital archiving with e-Sign integration		
21.8.3. Provide for mobile app support for field inspections, maintenance logging, and photo uploads		
21.8.4. Provide for GPS-enabled asset verification and location tracking		

Particulars of Business Function Requirements (ERP)

22. Corporate Services (ERP) – Security Management System (SMS)

<u>Detailed Functions</u>	<u>Yes/ No</u>	<u>Details</u>
22.1. Inventory & Asset Management (Security-related):		
22.1.1. Provide interface to security assets registry with additional fields to edit status including: insurance, inspection, maintenance and other parameters		
22.1.2. Provide for uniforms, badges, ID cards, and equipment issuance & return tracking		
22.1.3. Provide for communication devices (walkie-talkies, body cams) management		
22.1.4. Provide interface for security assets request by security staff that includes workflow for approval		
22.1.5. Provide for vehicle fleet management for security patrols (if applicable)		
22.1.6. Provide for maintenance scheduling for security equipment		
22.2. Contract & Client Management:		
22.2.1. Provide user-defined forms for contract management (tender-based, work orders, SLAs) with full file document upload into libraries		
22.2.2. Provide for site-wise service level tracking		
22.2.3. Provide for penalty/ liquidated damages calculation for non-compliance		
22.2.4. Provide for client feedback and complaint management with workflow and email notification to relevant Heads and participants		
22.3. Deployment & Operations Management:		
22.3.1. Provide for post/ beat assignment and management (fixed posts, mobile patrols, escorts)		
22.3.2. Provide for automated daily duty roster generation with government compliance rules		
22.3.3. Provide for real-time guard tracking via GPS/mobile app integration		
22.3.4. Provide for incident logging and response workflow		
22.3.5. Provide for patrol route planning and checkpoint verification (with mobile app scanning)		
22.3.6. Provide for emergency response and rapid deployment protocols		

Particulars of Business Function Requirements (ERP)

22. Corporate Services (ERP) – Security Management System (SMS)

<u>Detailed Functions</u>	<u>Yes/ No</u>	<u>Details</u>
22.3.7. Provide for site-wise security coverage planning and allocation		
22.3.8. Provide interface for security personnel muster roll update and manning scheduling		
22.3.9. Provide for feedback/ incident reporting by staff, ticket generation, processing workflow and reporting		
22.3.10. Provide for capture of ticket processing works details including dates, personnel, vendors, works undertaken, remarks, user feedback, etc		
22.4. Security & Access Control Integration:		
22.4.1. Provide for integration with physical access control systems (biometric, RFID)		
22.4.2. Provide for visitor management system linkage		
22.4.3. Provide for CCTV and surveillance system alerts integration		
22.4.4. Provide for alarm and incident escalation matrix		
22.4.5. Provide for threat intelligence and risk assessment module		
22.5. Mobile App & Field Operations Support:		
22.5.1. Provide for guard check-in/ check-out via mobile app with geo-fencing		
22.5.2. Provide for real-time incident reporting from field		
22.5.3. Provide for patrol logging and photo/video evidence upload		
22.5.4. Provide for supervisor review and approval features		
22.5.5. Provide for offline mode support for remote locations		
22.6. Reporting & Analytics:		
22.6.1. Provide for daily/weekly/monthly attendance and deployment reports		
22.6.2. Provide for incident trend analysis and security risk dashboards		
22.6.3. Provide for manpower utilization and overtime reports		
22.6.4. Provide for compliance and audit readiness reports		
22.6.5. Provide for real-time dashboards for senior officials/ security heads		
22.6.6. Provide for custom MIS reports as per government audit requirements		

Particulars of Business Function Requirements (ERP)

23. Research-Related Services (ERP) – Laboratory Information Management System (LIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
23.1. Master Data Management:		
○ Provide interface linked to various functions of other modules with additional fields to edit status including: calibration, inspection, maintenance and other parameters.		
23.1.1. Provide for Laboratory registration and profiling (name, type, location, accreditation status, ICUMSA/ ISO details, etc.)		
23.1.2. Provide for equipment and instrument master (with asset ID, make, model, calibration due date, maintenance schedule) with link to the asset registry function under finance module		
23.1.3. Provide for test/ parameter master (with test codes, standard methods, reference ranges, TAT - Turn Around Time)		
23.1.4. Provide for reagent and consumable master (with batch/lot tracking, expiry management, supplier details) with link to supplies management module		
23.1.5. Provide for staff/ scientist master (qualifications, roles, authorizations, training records) with link to the HR personnel records function		
23.1.6. Provide for customer/ client master with link to the customer function of the finance module		
23.2. Laboratory Assets Usage and Maintenance:		
23.2.1. Provide for user-defined forms for update of Laboratory assets to include attached apparatus and other hardware not captured centrally under finance asset registry function		
23.2.2. Provide for LIMS Module Setup interface to pre-input the analyses performed by respective equipment, to which laboratory they fall and requisite calibration/ routine maintenance required		
23.2.3. Provide for equipment usage requisition for laboratory equipment with approval workflow and email notification to participants		
23.2.4. Provide for capture of Handing over/ Taking details including: Equipment ID/ Name; Condition; Current User; Expected User, etc.		

Particulars of Business Function Requirements (ERP)

23. Research-Related Services (ERP) – Laboratory Information Management System (LIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
23.2.5. Provide for feedback/ problem reporting by staff, ticket generation, processing workflow and reporting		
23.2.6. Provide for capture of ticket processing works details including dates, personnel, vendors, works undertaken, parts replaced, remarks, user feedback, etc		
23.2.7. Provide for automated generation of equipment usage reports		
23.2.8. Provide for document attachment (e.g. sales receipts, register images, delivery notes etc) and reports using the “Global Document Management System” with approval workflow		
23.3. Laboratory Inventory & Resource Management:		
23.3.1. Provide an interface with transparent link to the main store module for management of “Laboratory Store”.		
23.3.2. Provide for capture of Accident details with requisite workflow email notifications to participants and report generation		
23.3.3. Provide for reagent/consumable stock management with reorder levels and expiry alerts		
23.3.4. Provide for automatic consumption tracking against tests performed		
23.3.5. Provide for equipment utilization and downtime tracking		
23.3.6. Provide for chemical/ hazardous waste management and disposal logging (as per CPCB norms in India or equivalent)		
23.4. Laboratory Service Request:		
23.4.1. Provide for online submission of “Lab Services Request” by Research Scientist and other stakeholders with approval workflow and email notification to participants		
23.4.2. Enforce requirements e.g. a two-week advance notification prior to presentation of sample to the Lab, specification of analysis method preferred, etc.		
23.4.3. Provide for automated generation of “Lab Requirements Schedule” based on submitted “Lab Services Request”		
23.5. Laboratory Service Request Billing:		
23.5.1. Provide for capture of costs (inputs, labor, equipment hire, fuel, transport/ distribution costs, etc), revenue (sales computation) and computed indices e.g. productivity with approval workflow		

Particulars of Business Function Requirements (ERP)

23. Research-Related Services (ERP) – Laboratory Information Management System (LIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
23.5.2. Provide for automated costing of the analysis with approval workflow and notification of the “Customers” via email		
23.5.3. Provide for automated generation of invoice for the analysis (cost automatically waived for staff)		
23.5.4. Provide for workflow for Laboratory analysis authorisation subject to payment receipt by finance		
23.6. Laboratory Service Request Assignment:		
23.6.1. Provide for automatic test scheduling based on priority and resource availability		
23.6.2. Provide for batch processing and grouping of similar tests		
23.6.3. Provide for laboratory analysis ticket generation and processing workflow with email notification to participants		
23.6.4. Provide for capture of ticket processing works details including dates, personnel, analyses to be undertaken, methods, remarks, etc		
23.6.5. Provide for automated report generation		
23.7. Sample Management:		
23.7.1. Provide for capture of sample registration details: - Customer ID, Type of sample; Date of receipt; Numbering; Date of analysis; Date of Disposal depending on type of sample		
23.7.2. Automatically generate the date of disposal of sample based on date of registration and perishability		
23.7.3. Provide for sample registration and unique barcode/ QR code generation		
23.7.4. Provide for sample receipt, logging, and chain-of-custody tracking		
23.7.5. Provide for sample acceptance/rejection workflow with reasons		
23.7.6. Provide for sample storage and location tracking (freezer/ rack/ shelf management)		
23.7.7. Provide for sample aliquoting and sub-sampling		
23.7.8. Provide for sample disposal workflow (after retention period compliance)		
23.7.9. Provide for digital worksheets / Electronic Lab Notebooks (ELN) integration		
23.8. Analysis:		

Particulars of Business Function Requirements (ERP)

23. Research-Related Services (ERP) – Laboratory Information Management System (LIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
23.8.1. Provide for real-time test execution tracking with status updates (Received → In Progress → Completed)		
23.8.2. Provide for instrument interfacing and automatic data capture from LIMS/ analytical instruments		
23.8.3. Provide for quality control (QC) sample processing (blanks, duplicates, spikes, standards)		
23.8.4. Provide for method validation and SOP compliance tracking		
23.8.5. Provide for automated report generation		
23.9. Results Handling:		
23.9.1. Provide for generation of results with workflow for verification		
23.9.2. Provide for multi-level result entry and verification workflow		
23.9.3. Provide for automated flagging of out-of-specification (OOS) or out-of-trend (OOT) results		
23.9.4. Provide for peer review and technical approval		
23.9.5. Provide for final authorization by authorized signatory (as per government accreditation norms)		
23.9.6. Provide for electronic signature and audit trail for all approvals		
23.10. Report Generation & Certificate Issuance:		
23.10.1. Provide for automated generation of Test Reports / Analysis Certificates		
23.10.2. Provide for customizable report templates compliant with government formats		
23.10.3. Provide for digital signature and secure PDF generation with QR code verification		
23.10.4. Provide for report dispatch via email, portal download, or physical print		
23.10.5. Provide for historical report search and reprint with version control		
23.10.6. Provide for automated generation of Test Reports / Analysis Certificates		
23.10.7. Provide for physical submission of result to external customers after registration in “Despatch Register” interface		
23.10.8. Provide for web interface for Clients to view updates on status/ progress of analyses		

Particulars of Business Function Requirements (ERP)

23. Research-Related Services (ERP) – Laboratory Information Management System (LIMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
23.11. Analytics, Dashboards:		
23.11.1. Provide for real-time dashboard for sample status, TAT compliance, and backlog		
23.11.2. Provide for performance metrics (analyst productivity, instrument utilization, error rates)		
23.11.3. Provide for trend analysis for test volumes, revenue, and quality parameters		
23.11.4. Provide for automated report generation providing the duration from request for analysis to results submission in format provided by performance contracting		
23.11.5. Provide for custom reports for other regulatory authorities		
23.11.6. Provide for document attachment (e.g. printouts of analyses output, invoices, register images, delivery notes etc) and reports using the “Global Document Management System” with approval workflow		
23.12. Quality Assurance & Compliance:		
○ Laboratory quality management system [ISO/IEC 17025]: documentation management (review & control), audit scheduling, auditing, audit actions ticket generation, processing workflow, feedback, reporting		
23.12.1. Provide for internal and external audit management		
23.12.2. Provide for non-conformance (NC) and Corrective & Preventive Action (CAPA) tracking		
23.12.3. Provide for proficiency Testing (PT) / Inter-Laboratory Comparison (ILC) management		
23.12.4. Provide for equipment calibration and preventive maintenance scheduling		
23.12.5. Provide for document control for SOPs, manuals, and validation protocols		
23.13. Regulatory & Government-Specific Compliance:		
23.13.1. Provide for data archival as per government retention policies		
23.13.2. Provide for right to Information (RTI) query handling module		
23.13.3. Provide for secure data access as per government security classification		
23.13.4. Provide for audit logs compliant with IT Act / MeitY guidelines		

Particulars of Business Function Requirements (ERP)**23. Research-Related Services (ERP) – Laboratory Information Management System (LIMS)**

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	23.14. Additional Advanced Functions:		
	23.14.1. Provide for artificial Intelligence / ML for predictive maintenance of equipment		
	23.14.2. Provide for anomaly detection in test results		
	23.14.3. Provide for blockchain-based certificate authenticity verification (future-ready)		
	23.14.4. Provide for environmental monitoring integration (temperature, humidity logs for stability chambers)		

Particulars of Business Function Requirements (ERP)

24. Research-Related Services (ERP) – Socioeconomics Information Management System (SIMS)

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	24.1. Survey Data Management:		
	24.1.1. Provide for “Survey Request” form for placement of request for survey services containing requisite details		
	24.1.2. Provide for online, user-defined, on-the-fly survey data form for questionnaire design (link to the ODC module)		
	24.1.3. Provide for questionnaire design process with approval workflow and email notification to participants		
	24.1.4. Provide for ticket generation and task assignment to survey participants with approval workflow and email notifications		
	24.1.5. Provide for link to “management approved budget” to inform requisitioning for survey exercise expenses		
	24.1.6. Provide for online data capture into the database and full file document upload of scanned copies of data sheets for manual data collection		
	24.1.7. Provide for export of data into spreadsheet for periodic analysis		
	24.1.8. Provide for capture of reports into the database using user-defined, on-the-fly data entry form and as full file reports into document libraries		
	24.2. Biometrics Services:		
	○ Biometrics service request, ticket generation, data submission in spreadsheet, processing workflow, reporting, feedback.		
	24.2.1. Provide for “Data Analysis Request” form for placement of request for data analysis services containing requisite details		
	24.2.2. Provide for data submission with approval workflow and email notification to participants		
	24.2.3. Provide for ticket generation and task assignment to data analysis participants with approval workflow and email notifications		
	24.2.4. Provide for link to “management approved budget” to inform requisitioning for data analysis expenses		
	24.2.5. Provide for analysis results capture as full file document upload of scanned copies		

Particulars of Business Function Requirements (ERP)

24. Research-Related Services (ERP) – Socioeconomics Information Management System (SIMS)

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	24.2.6. Provide for capture of progress reports into the database using user-defined, on-the-fly data entry form and as full file reports into document libraries		

Particulars of Business Function Requirements (ERP)

25. Research-Related Services (ERP) – Grants Management System (GMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
25.1. Approved Projects / Concepts Database:		
25.1.1. Provide for maintenance of a centralized repository of all approved projects, concepts, proposals, and other application types with full audit history.		
25.1.2. Provide support for structured data fields including project title, applicant/stakeholder details, project objectives, budget requested/approved, duration, status, risk level, and key performance indicators (KPIs).		
25.1.3. Provide for advanced search, filtering, and reporting on the database of approved grants.		
25.1.4. Provide for version control and history tracking for any changes made to project records.		
25.2. Online Application & Shortlisting System:		
25.2.1. Provide for a secure public-facing online application portal (linked to the government website) where stakeholders can submit grant applications, concepts, or proposals.		
25.2.2. Provide for real-time data synchronization between the public portal and the ERP backend.		
25.2.3. Provide for built-in shortlisting and pre-screening tools with scoring matrices, automated eligibility checks, and ranking of applications.		
25.2.4. Provide for applicant self-service portal for tracking application status, uploading additional documents, and receiving notifications.		
25.3. Approval Workflows with Notifications:		
25.3.1. Provide for configurable multi-stage approval workflows (such as initial screening → technical evaluation → financial review → final committee approval → disbursement).		
25.3.2. Provide for built-in workflow engine using native workflows with role-based approvals and parallel/serial routing.		
25.3.3. Provide for automatic email notifications and reminders to approvers, applicants, and stakeholders at each workflow stage, including approval/ rejection decisions.		
25.3.4. Provide for escalation rules, delegation options, and audit trail for all approval actions.		

Particulars of Business Function Requirements (ERP)

25. Research-Related Services (ERP) – Grants Management System (GMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
25.4. Budget & Financial Integration:		
25.4.1. Provide for linkage with Finance module for budget allocation, commitment, disbursement, and expenditure tracking against approved grants.		
25.4.2. Provide for automated generation of payment requests and financial reports.		
25.5. Meetings, Activity Scheduling & Planning:		
25.5.1. Provide for integrated calendar and scheduling functionality for grant-related meetings, evaluation sessions, site visits, and review activities.		
25.5.2. Provide for link directly to the committee information management (CIMS) module for committee member availability, roles, and assignments.		
25.5.3. Provide for automated scheduling with conflict detection and resource booking (meeting rooms, virtual platforms).		
25.5.4. Provide support for recurring activities and milestone-based planning tied to grant lifecycle stages.		
25.6. Document Management Integration:		
25.6.1. Provide for seamless integration with the Global Document Management System (GDMS) for storing, versioning, and retrieving all grant-related documents (applications, contracts, reports, invoices, progress photos, etc.).		
25.6.2. Provide for document tagging, metadata management, and access control based on user roles and security policies.		
25.6.3. Provide support for check-in/check-out, document approval workflows within GDMS, and linking of documents directly to specific grant/project records.		
25.7. Grant Lifecycle Management:		
25.7.1. Provide for end-to-end tracking of grants from application receipt through evaluation, approval, disbursement, monitoring, reporting, and closure		
25.7.2. Provide for dashboard views for grant portfolio overview, pending actions, and performance metric		
25.8. Reporting & Analytics:		
25.8.1. Provide for comprehensive reporting and analytics on grant utilization, success rates, beneficiary demographics, regional distribution, and impact measurement		

Particulars of Business Function Requirements (ERP)

25. Research-Related Services (ERP) – Grants Management System (GMS)

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	25.8.2. Provide for native analysis functions' integration for interactive dashboards and custom reports		
	25.9. Stakeholder & Communication Management:		
	25.9.1. Provide for integrated contact management for applicants, beneficiaries, and implementing partners		
	25.9.2. Provide for automated communication templates and bulk notification capabilities		

Particulars of Business Function Requirements (ERP)

26. Research-Related Services (ERP) – Sugarcane Production/ Demand Synchronization (SPDS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
26.1. User Roles and Access Control:		
26.1.1. Provide for multi-level access: national administrators (such as Agriculture Ministry, sugar directorate), County agriculture officers, millers/factory managers, sugarcane zone coordinators, farmers/ outgrower associations (read-only or limited input), researchers, among others		
26.1.2. Provide for role-based permissions for data entry, viewing reports, editing forecasts, and approvals.		
26.1.3. Provide for secure authentication with two-factor options and audit logs for data changes.		
26.2. Core Input Data Modules:		
26.2.1. Provide for current land under sugarcane: countrywide and per-county/zone mapping of planted area (hectares), with GIS integration for visualization.		
26.2.2. Provide for cane age and maturity status: snapshot dashboard showing distribution of cane by age groups (such as 0-6 months, 7-12 months, 13-18 months, 19+ months) and projected harvest windows based on variety-specific maturity periods.		
26.2.3. Provide for potential Expandable Land: database of idle or convertible land suitable for sugarcane (such as soil type, irrigation potential in non-traditional sugar growing Counties), with suitability scoring.		
26.2.4. Provide for projected weather patterns: Integration with meteorological APIs or data feeds for rainfall, temperature, drought/heat stress forecasts, and climate impact modelling on growth rates and yields.		
26.2.5. Provide for millers and capacities: List of all active mills with daily/annual crushing capacities (TCD - tonnes cane per day), current utilization rates, and maintenance schedules.		
26.2.6. Provide for seed cane availability and potential: Inventory of certified seed nurseries, multiplication rates, distribution logistics, and projected seed demand/ supply gaps.		

Particulars of Business Function Requirements (ERP)

26. Research-Related Services (ERP) – Sugarcane Production/ Demand Synchronization (SPDS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
26.2.7. Provide for sugarcane varieties database: comprehensive catalogue including varieties, maturity periods (9-24 months depending on region/ climate), yield potential (tonnes/ ha), sucrose content, disease/ pest resistance, and regional suitability (Western Kenya, Nyanza, Coast, Rift Valley)		
26.2.8. Provide for county and zone data: mapping of counties to sugar zones/ factories, including number of factories per county/ zone		
26.2.9. Provide for farmer populations: number of smallholder farmers per sugar zone, average farm size, and aggregated supply potential		
26.2.10. Provide for soil fertility and management data (pH, nutrient levels, fertilizer application records).		
26.2.11. Provide for pest and disease incidence tracking (such as smut, mosaic virus) with early warning alerts.		
26.2.12. Provide for transport and logistics infrastructure (road conditions, distance from farms to mills, vehicle availability).		
26.2.13. Provide for economic factors: input costs (fertilizers, labour), cane prices, farmer incentives, and market demand projections (domestic consumption vs. imports).		
26.2.14. Provide for irrigation and water availability data, especially for expansion areas like Bura or Tana River schemes.		
26.2.15. Provide for historical yield data and trends (national average, with regional variations).		
26.2.16. Provide for regulatory and policy data (such as Sugar Act provisions, leasing of mills, import quotas).		
26.2.17. Provide for socio-economic indicators: Farmer training levels, access to credit/ extension services, and food security impacts from monoculture shifts.		
26.3. Data Integration and Sources:		
26.3.1. Provide for LLM integration and API for third party data collection from websites including meteorological data varieties/ seed data, production statistics, among others		
26.3.2. Provide for mobile app support for field officers/ farmers to upload geo-tagged data (such as via GPS for planted areas and cane age snapshots)		

Particulars of Business Function Requirements (ERP)

26. Research-Related Services (ERP) – Sugarcane Production/ Demand Synchronization (SPDS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
26.3.3. Provide for bulk import from Excel/ CSV and real-time synchronization with existing government databases where available		
26.3.4. Provide for data validation rules to ensure accuracy (such as maturity calculations based on planting dates and variety profiles)		
26.4. Core Functional Features:		
26.4.1. Provide for supply-demand forecasting engine: predictive modelling to project monthly/quarterly cane supply (based on age profiles, weather-adjusted growth, variety maturity, and yields) against mill capacities. Highlight surpluses/shortfalls per zone/mill.		
26.4.2. Provide for optimization algorithms: suggest optimal harvesting schedules, seed distribution plans, and variety recommendations to smooth supply curves and maximize milling utilization (targeting higher capacity use, currently often below 100%).		
26.4.3. Provide for scenario simulation: what-if analysis for climate events (drought/rain), new land expansion, or mill upgrades.		
26.4.4. Provide for dashboard and visualization: Interactive maps (GIS-based showing zones/counties), charts for supply pipelines, maturity pyramids, capacity utilization gauges, and alerts for imbalances.		
26.4.5. Provide for harvesting and logistics planner: calendar for staggered harvesting to avoid gluts, with transport routing optimization.		
26.4.6. Provide for seed and variety planner: matching seed availability to potential planting areas, with recommendations for early-maturing varieties in suitable zones.		
26.5. Reporting and Analytics:		
26.5.1. Provide for generation of reports on synchronization gaps, projected production (cane tonnes and sugar output), yield forecasts, and efficiency metrics		
26.5.2. Provide for exportable formats (PDF, Excel) for stakeholders, with historical trend analysis		
26.5.3. Provide for custom queries, such as "Impact of delayed rains on Western Kenya zones in next 6 months"		
26.6. Alert and Notification System:		

Particulars of Business Function Requirements (ERP)

26. Research-Related Services (ERP) – Sugarcane Production/ Demand Synchronization (SPDS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
26.6.1. Provide for real-time or scheduled alerts via SMS, email, or in-app for impending gluts/shortages, weather risks, seed shortages, or low milling utilization		
26.6.2. Provide for threshold-based notifications (such as if supply exceeds capacity by 20% in a zone).		
26.7. Technical Specifications:		
26.7.1. platform: web-based (responsive) with optional native mobile apps (Android/iOS) for field data collection.		
26.7.2. backend: scalable database (such as PostgreSQL with PostGIS for spatial data), server-side logic in Python/Node.js, with machine learning libraries (such as for yield forecasting).		
26.7.3. frontend: modern UI framework (such as React) with interactive maps (Leaflet or Google Maps API).		
26.7.4. security: data encryption, compliance with Kenya Data Protection Act, offline capabilities for remote areas with sync on reconnection.		
26.7.5. scalability: cloud-hosted (or on-premise government infrastructure) to handle national-scale data.		
26.7.6. performance: support for ~250,000+ farmer records and real-time updates from multiple zones.		
26.8. Non-Functional Requirements:		
26.8.1. Provide for usability: intuitive interface with minimal training needed for extension officers and mill staff; support for multiple languages (English, Kiswahili).		
26.8.2. Provide for reliability: high uptime, data backup, and error handling for incomplete inputs.		
26.8.3. Provide for maintainability: modular design for easy updates to variety databases or weather models.		
26.8.4. Provide for accessibility: compliance with Web Content Accessibility Guidelines (WCAG) standards; low-bandwidth optimization for rural users.		

Particulars of Business Function Requirements (ERP)

27. Research-Related Services (ERP) – Seedcane Production and Distribution (SPD)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
27.1. Master Data Management:		
27.1.1. Provide for variety master (scientific name, characteristics, maturity period, yield potential, disease resistance, etc.)		
27.1.2. Provide for seed production stages master (nursery, primary seed, secondary seed, commercial seed, etc.)		
27.1.3. Provide for land/ farm/ plot master (location, soil type, irrigation source, ownership/lease details)		
27.1.4. Provide for supplier/ contractor/ grower registration (farmers, cooperatives, research institutes)		
27.1.5. Provide for seed certification standards master (Government standards, quality parameters, seed act compliance)		
27.1.6. Provide for distribution channel master (outgrower companies, sugar mills, farmer groups, etc)		
27.1.7. Provide for warehouse/ godown/ storage master		
27.2. Planning & Forecasting:		
27.2.1. Provide for annual seed production target setting (by variety, by season, by region)		
27.2.2. Provide for demand forecasting for certified seeds (based on previous year distribution + area expansion plans)		
27.2.3. Provide for production planning: 1) nursery area allocation 2) multiplication ratios 3) expected output		
27.2.4. Provide for link to budget function of the finance module for allocation & financial planning for seed production activities		
27.2.5. Provide for season-wise planning module		
27.3. Seed Production Management:		
27.3.1. Provide for link to business management for variety scheduling, planting scheduling, crop maintenance assignment workflow, harvesting/ treatment scheduling, cost management {operational & labor} and reporting.		
27.3.2. Provide for nursery management (sowing schedule, input requirements, germination tracking)		

Particulars of Business Function Requirements (ERP)

27. Research-Related Services (ERP) – Seedcane Production and Distribution (SPD)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
27.3.3. Provide for field inspection scheduling & tracking (rogueing, isolation distance compliance)		
27.3.4. Provide for crop growth monitoring (stage-wise data entry – planting, irrigation, fertilization, pest/disease)		
27.3.5. Provide for seed multiplication register (tracking generation: breeder → foundation → certified)		
27.3.6. Provide for production cost tracking (labor, inputs, irrigation, machinery)		
27.3.7. Provide for weather & risk monitoring integration		
27.3.8. Provide for contract farming agreement management (with growers/farmers)		
27.4. Quality Control & Certification:		
27.4.1. Provide for field inspection & certification workflow		
27.4.2. Provide for laboratory testing integration (purity, germination %, moisture, genetic purity)		
27.4.3. Provide for seed sampling & testing management		
27.4.4. Provide for rejection & re-processing handling		
27.4.5. Provide for issuance of seed certification tags / labels		
27.4.6. Provide for traceability from source plot to final seed lot		
27.5. Inventory & Warehouse Management:		
27.5.1. Provide for seed lot creation & coding (batch/lot number generation)		
27.5.2. Provide for stock receipt from production centers / farms		
27.5.3. Provide for godown-wise stock management (quantity, variety, class, germination date, expiry)		
27.5.4. Provide for stock movement (transfer between godowns, Centers, zones, catchment)		
27.5.5. Provide for stock aging & quality degradation tracking		
27.5.6. Provide for physical stock verification & reconciliation		
27.5.7. Provide for seed lot creation & coding (batch/lot number generation)		
27.6. Distribution & Sales Management:		
27.6.1. Provide for demand collection from farmers / sugar mills		

Particulars of Business Function Requirements (ERP)

27. Research-Related Services (ERP) – Seedcane Production and Distribution (SPD)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
27.6.2. Provide for seed distribution planning & allocation (quota by zone/ variety)		
27.6.3. Provide for distribution order processing & approval workflow		
27.6.4. Provide for subsidy management & calculation (if seeds are subsidized)		
27.6.5. Provide for delivery gate pass generation		
27.6.6. Provide for transportation & logistics tracking		
27.6.7. Provide for farmer/ beneficiary-wise distribution register		
27.7. Financial & Accounting Integration:		
27.7.1. Provide for costing of seed production (TCH)		
27.7.2. Provide for pricing & subsidy accounting		
27.7.3. Provide for payment processing to seed growers/ contractors		
27.7.4. Provide for revenue from seed sales		
27.7.5. Provide for budget utilization tracking		
27.7.6. Provide for integration with finance module		
27.8. Reporting & Analytics (MIS):		
27.8.1. Provide for variety-wise production vs target report		
27.8.2. Provide for district-wise / block-wise distribution report		
27.8.3. Provide for seed replacement rate (SRR) monitoring		
27.8.4. Provide for farmer reach & coverage analysis		
27.8.5. Provide for quality rejection analysis		
27.8.6. Provide for cost economics & profitability analysis (even in government setup)		
27.8.7. Provide for dashboard for real-time production & distribution status		

Particulars of Business Function Requirements (ERP)

28. Research-Related Services (ERP) – Training Management System (TMS)

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	28.1. Training Program Management:		
	28.1.1. Provide for creation, editing, and archiving of short-term training programs (such as 1-day, 3-day, 5-day workshops on crop production, livestock, soil health, etc.)		
	28.1.2. Provide for definition of training objectives, curriculum outline, duration, target farmer group, and expected outcomes		
	28.1.3. Provide for linking of training programs to specific research projects, outreach activities, etc		
	28.1.4. Provide for approval workflow for new training programs by relevant Heads		
	28.1.5. Provide public portal integration of approved training programs		
	28.2. Training Calendar & Scheduling:		
	28.2.1. Provide for centralized training calendar with multi-year view		
	28.2.2. Provide for schedule training batches with dates, venues (field, lab, classroom), and resource persons		
	28.2.3. Provide for conflict checking for trainers, venues, and equipment		
	28.2.4. Provide for public portal integration for farmers to view upcoming trainings		
	28.3. Farmer Registration & Enrolment:		
	28.3.1. Provide for online/ offline farmer registration		
	28.3.2. Provide for profile management (name, village, district, farm size, crops grown, mobile number, etc.)		
	28.3.3. Provide for batch-wise enrolment with seat capacity limits and waiting lists		
	28.3.4. Provide for automated confirmation SMS/email/WhatsApp notifications		
	28.3.5. Provide for application status tracking (pending, approved, rejected)		
	28.4. Attendance & Participation Tracking:		
	28.4.1. Provide for digital attendance marking (biometric, QR code, or mobile app)		

Particulars of Business Function Requirements (ERP)

28. Research-Related Services (ERP) – Training Management System (TMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
28.4.2. Provide for session-wise and overall training attendance reports		
28.4.3. Provide for certificate eligibility based on minimum attendance threshold		
28.4.4. Provide for integration with farmer database for unique farmer ID		
28.5. Resource & Trainer Management (link to CRM module):		
28.5.1. Provide for database of internal scientists, external experts, and guest trainers		
28.5.2. Provide for trainer availability calendar and assignment to training sessions		
28.5.3. Provide for management of training materials, kits, seeds, tools, and demo equipment		
28.5.4. Provide for venue and infrastructure booking (demonstration plots, labs, hostels)		
28.6. Training Delivery & Content Management:		
28.6.1. Provide for upload and management of full file training content (pdfs, videos, ppts, manuals) using the “Global Document Management System”		
28.6.2. Provide for session plans and daily schedules		
28.6.3. Provide for feedback collection mechanism during and after training		
28.7. Certification & Documentation:		
28.7.1. Provide for automated generation of participation certificates with QR code verification with use of both “Mail Merge Function” and “Global Document Management System”		
28.7.2. Provide for issue digital certificates (PDF) with institution logo with approval workflow		
28.7.3. Provide for record of certificates issued for each trainee		
28.7.4. Provide for transcript or training summary for advanced programs		
28.8. Financial Management (link to Finance Module):		
28.8.1. Provide for handling of nominal registration fees (if any) or fully sponsored programs		
28.8.2. Provide for budget allocation and tracking per training program		
28.8.3. Provide for expenditure recording (trainer, refreshments, materials, transport)		

Particulars of Business Function Requirements (ERP)

28. Research-Related Services (ERP) – Training Management System (TMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
28.8.4. Provide for link to “management approved budget” for budget enforcement and control		
28.8.5. Provide for payment gateway for any participant fees, with link to accounts receivable function of finance module		
28.9. Reporting & Analytics:		
28.9.1. Provide for dashboard for training statistics (number of trainings, participants trained, coverage by County, Ward, sugar zone)		
28.9.2. Provide for reports on farmer demographics (gender, age, landholding, crop variety, etc)		
28.9.3. Provide for impact assessment indicators (pre/ post training knowledge test scores)		
28.9.4. Provide for compliance reports for government audits and annual reports		
28.9.5. Provide for GIS mapping of trained participants by Ward/ sugar zone		
28.10. Follow-up & Impact Assessment:		
28.10.1. Provide for post-training follow-up module (SMS reminders, field visits scheduling) – <i>Link to USSD (Unstructured Supplementary Service Data) and SMS function</i>		
28.10.2. Provide for feedback and impact survey collection (via USSD, mobile app or web) -- <i>Link to USSD (Unstructured Supplementary Service Data) and SMS function</i>		
28.10.3. Provide for record of adoption of practices taught (self-reported or verified) -- <i>Link to USSD (Unstructured Supplementary Service Data) and SMS function</i>		
28.10.4. Provide for success stories and case studies database linked to specific trainings		
28.11. Stakeholder Communication & Portal:		
28.11.1. Provide for trainee portal/ mobile app for registration, status check, and training history		
28.11.2. Provide for trainer dashboard for assigned trainings and materials		
28.11.3. Provide for administrative dashboard with overall oversight		
28.11.4. Provide for integration with institution’s main website		
28.12. Inventory & Logistics for Practical Training:		

Particulars of Business Function Requirements (ERP)

28. Research-Related Services (ERP) – Training Management System (TMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
28.12.1. Provide for management of seeds, fertilizers, tools, and demo materials used in practical sessions		
28.12.2. Provide for issue and return tracking for training kits		
28.12.3. Provide for stock replenishment alerts		
28.12.4. Provide link to demo function of CRM		
28.13. Training Curriculum:		
28.13.1. Provide for dynamic database of training needs based on periodic assessment process with approval workflow by relevant committee and function Heads		
28.13.2. Provide for capture/ update of “Training Curriculum” into the database with the curriculum uploaded as full file documents into the document libraries using the “Global Document Management System” enforcing document control		
28.14. Training Process:		
28.14.1. Provide for capture of “annual training schedule”, with concurrence/ approval workflow and email notifications to participants		
28.14.2. Provide for meta-data in the training schedule linking to “management approved budget” and “annual procurement plan”		
28.14.3. Provide for meta-data in the CRM module’s feedback form to desegregate training requests from stakeholders		
28.14.4. Provide for manual capture of training requests from various sources including CRM module, website, written/ verbal request, among others		
28.14.5. Provide for capture of an “Training Programme”, “Working Budget” with workflow for approval by relevant committees and function Heads complete with email notifications to participants		
28.14.6. Provide for training implementation ticket generation with approval workflow and email notifications to participants		
28.14.7. Provide for development of user-defined, on-the-fly “Feedback Forms” unique to requirements of each “Training” through the CRM module that is to be hosted internally, and access shared via URL		
28.14.8. Provide for self-administration of feedback forms online via URL link		

Particulars of Business Function Requirements (ERP)

28. Research-Related Services (ERP) – Training Management System (TMS)

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	28.14.9. Provide a standard training report interface that includes analysis of feedback and recommendations from training among other information		

Particulars of Business Function Requirements (ERP)

29. Research (ERP) – Research Management System (RMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
29.1. Research Protocol:		
29.1.1. Provide for upload of full file research protocol document, research proposals, and research reports in document libraries using the “Global Document Management System”		
29.1.2. Provide for enforcement of the “research protocol” through workflow for review and approval of research proposals by relevant committees and Heads with automated email notification to participants		
29.1.3. Provide for user-defined/ on-the-fly data form generation for capture of logframes of approved research proposal		
29.1.4. Provide for metadata linking the research proposal logframes to “management approved budget” and “annual procurement plan (APP)”		
29.2. Research Data Collection:		
29.2.1. Provide for user-defined/ on-the-fly data form generation for trials data capture		
29.2.2. Provide for validation/ approval workflow for trials data with automated email notification to participants		
29.2.3. Provide for export of data in form of Spreadsheet files for analysis		
29.3. Research Monitoring and Evaluation (M&E):		
29.3.1. Provide for Monitoring and Evaluation (M&E) scheduling and automated email notification to participants		
29.3.2. Provide for on-the fly user defined data forms creation for: 1) Information submission 2) Sample records submission		
29.3.3. Provide for M&E response workflow		
29.3.4. Provide for sample M&E records management in document libraries as full file documents using the “Global Document Management” function		
29.3.5. Provide for automated report generation with workflow for validation/ approval by participants with automated email notifications for responses		
29.4. Good Agricultural Practices (GAP) Generation:		

Particulars of Business Function Requirements (ERP)

29. Research (ERP) – Research Management System (RMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
29.4.1. Provide for capture of findings and recommendations (from research papers published in approved journals) as data into the database including fields e.g. publication details, etc.		
29.4.2. Provide for generation of good agricultural practices (GAP) recommendations based on the database of recommendations and findings using large language model (LLM) integration		
29.5. Agri-Advisory Service:		
29.5.1. Provide for meta-data for identification of research-related customer feedback/ enquiries in the customer relationship management (CRM) system		
29.5.2. Provide for research-related customer feedback/ enquiries extraction into the “dashboard” of the Head of Crop Improvement Directorate for assignment to relevant personnel,		
29.5.3. Provide for ticket generation, processing workflow including email notification to participants		
29.5.4. Provide for ticket closure and report generation		
29.5.5. Provide for review of feedback by customers through the CRM module		
29.6. Plant Breeding Process:		
29.6.1. Provide for date entry by data clerk; verification by Research Technician, and validation by Research Scientist prior to actual posting of data		
29.6.2. Provide for data capture from remote locations through personal computing devices including smart mobile devices		
29.6.3. Provide for capture of data for “Characterization of sugarcane parents” including “parent details”, “traits”, etc		
29.6.4. Provide for interface for setting “Crossing Objective”		
29.6.5. Provide for interface for executing “Parent Combinations” based on “Crossing Objective”		
29.6.6. Provide for capture of “Scouting” data		
29.6.7. Provide for an interface generation of “Crossing Schedule” with crossing dates “Crossing Objective” and “Scouting” data		
29.6.8. Provide for capture of “Fuzz Harvesting” data: Fuzz Weight; Pre-germination count estimate;		
29.6.9. Provide for capture of “Transplanting Data”: - Transplanting date; Number of Families; Number of Seedlings		

Particulars of Business Function Requirements (ERP)

29. Research (ERP) – Research Management System (RMS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
per family; Survival rates after 1 & 2 months; Observations (e.g. wilted); Brix; Stalk population per stool;		
29.6.10. Provide for capture of “Family Selection” data: - Family ID; Quantity of selected seedlings; Naming of clones		
29.7. Provided for capture of Evaluation & Selection: Stage II:		
1) “General Parameters” data: - Date of Planting; Plot Number; Block Number; Plot Size; Site; 2) “Agronomic Parameters” data: - Percent Germination; Number of Tillers per row (single row); Girth; Height; Number of Milleable Stalk; 3) “Chemical Parameters” data: - Brix;		
29.8. Provided for capture of Evaluation & Selection: Stage III:		
1) “General Parameters” data: - Date of Planting; Plot Number; Block Number; Plot Size; Site; 2) “Agronomic Parameters” data: - Percent Germination; Number of Tillers per row (double rows); Girth; Height; Number of Milleable Stalk; Weight; Disease information; 3) “Chemical Parameters” data: - Brix; Juice Purity; Fiber;		
29.9. Provided for capture of Evaluation & Selection: Stage IV:		
1) “General Parameters” data: - Date of Planting; Plot Number; Block Number; Plot Size; Site; Replica Number; 2) “Agronomic Parameters” data: - Percent Germination; Number of Tillers per row (double rows); Girth; Height; Number of Milleable Stalk; Weight; Disease information; 3) “Chemical Parameters” data: - Brix; Juice Purity; Fiber;		
29.10. Provided for capture of Evaluation & Selection: Stage V:		
1) “General Parameters” data: - Date of Planting; Plot Number; Block Number; Plot Size; Site; Replica Number; 2) “Agronomic Parameters” data: - Percent Germination; Number of Tillers per row (double rows); Girth; Height; Number of Milleable Stalk; Weight; Disease information; 3) “Chemical Parameters” data: - Brix; Juice Purity; Fiber;		
29.10.1. Provide for upload of full file reports including National Performance Trial (NPT), scanned copy of confirmed minutes, etc.		

Particulars of Business Function Requirements (ERP)**29. Research (ERP) – Research Management System (RMS)**

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	29.10.2. Provide for capture of Distinctive Uniformity and Stability (DUS) characteristics data		
	29.10.3. Provide for upload of full file reports including scanned copy of confirmed minutes of NVPC (National Variety Performance Committee) and other Variety release authorisation documents		

Particulars of Business Function Requirements (GIS)

30. Research-Related Services (GIS) – Geographic Information System (GIS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
✓ Support mapping of sugar production plot boundaries, monitoring sugarcane production over time, and assessing nutritional/crop health status using satellite imagery (such as Sentinel-2, Landsat) and drone visual/ multispectral data.		
30.1. Overview and Objectives:		
30.1.1. Provide for basic GIS platform for digitizing, managing, and analyzing spatial data related to sugarcane plots in the sugarcane production regions in Kenya.		
30.1.2. Key functions:		
1) Boundary mapping and parcel management (vector editing, attribute linking to production data)		
2) Temporal monitoring of sugarcane growth, yield estimation, and change detection		
3) Crop health/nutritional status analysis using vegetation indices (NDVI, NDRE, etc.) from multispectral imagery		
4) Integration of high-resolution drone orthomosaics, DEMs, and satellite time-series data		
5) Basic reporting, visualization, and data sharing for research and stakeholder use		
6) Users:		
a. Maximum one (1) Professional/ Pro-level user (advanced analysis, data management)		
b. Optional one (1) Standard user (viewing, basic editing, mapping).		
30.2. Functional Requirements:		
30.2.1. Data Management:		
1) Provide support for vector formats (Shapefile, GeoPackage, File Geodatabase or equivalent)		
2) Provide Raster support including multispectral satellite (Sentinel-2, Planet, etc.) and drone imagery (RGB + multispectral: Red, Green, NIR, RedEdge preferred)		
3) Provide for georeferencing, orthorectification, mosaicking, and tiling of drone data		
4) Provide for database for plot attributes (ownership, variety, planting date, yield history, soil/nutrient data)		
5) Provide for versioning or simple change tracking for plot boundaries and production data		

Particulars of Business Function Requirements (GIS)

30. Research-Related Services (GIS) – Geographic Information System (GIS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
30.3. Mapping and Visualization:		
1) Provide for high-quality cartography, layer management, symbology, and labeling for plot boundaries		
2) Provide for time-series visualization and animation for crop growth monitoring		
3) Provide for 3D visualization (basic terrain/ DEM from drone data)		
30.4. Analysis Tools:		
1) Provide for spatial analysis: buffering, overlay, area/perimeter calculations, zonal statistics		
2) Provide for raster analysis: vegetation indices calculation, classification, change detection		
3) Provide for image processing: atmospheric correction, cloud masking, supervised classification for crop health/ nutrient stress		
4) Provide for integration of field data (GPS points, yield monitors) with remote sensing data		
5) Provide for basic suitability/ zoning analysis for sugarcane		
30.5. Remote Sensing Integration:		
1) Provide for importation and processing of drone imagery (support for Pix4D, DroneDeploy, or open-source alternatives like OpenDroneMap/ WebODM outputs)		
2) Provide for access and processing of free satellite data (such as via Google Earth Engine integration or direct download APIs where possible)		
3) Provide for temporal stacking and multi-date analysis		
30.6. Output and Sharing:		
1) Provide for export maps to PDF, image, and web formats		
2) Provide for basic web mapping or data sharing (view-only maps for stakeholders)		
3) Provide for reporting tools for production statistics linked to spatial data		
30.7. Security and Compliance:		
1) Provide for user access control		
2) Provide for data backup and recovery		
3) Provide for compliance with Kenyan government data policies		

Particulars of Business Function Requirements (CAD)

31. Research-Related Services (CAD) – Computer Aided Design (CAD)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
✓ Provide basic-to-professional Computer-Aided Design (CAD) system for 3D modeling, 2D drafting, assembly design, and basic simulation of agricultural tools, sugarcane production/ processing equipment, irrigation systems, and water runoff management structures.		
31.1. Overview and Objectives:		
31.1.1. Provide support for mechanical design, parametric modeling, sheet metal, and export for manufacturing (STEP, IGES, STL, DWG)		
31.1.2. Provide for research/ innovation workflows		
31.1.3. Provide for compatibility with GPU passthrough, local file storage/ control		
31.1.4. Provide support for Kenyan/ international manufacturing standards		
31.1.5. Basic reporting, visualization, and data sharing for research and stakeholder use		
31.1.6. Provide for perpetual licenses where possible or cost-effective subscriptions		
31.1.7. Users: Maximum one (1) Professional/ Pro-level user (one concurrent seat/license)		
31.2. Functional Requirements:		
31.2.1. Core Modeling:		
1) Provide for parametric 3D solid and surface modeling		
2) Provide for 2D drafting with precise dimensioning, tolerances, and GD&T		
3) Provide for assembly design with mates/constraints and BOM generation		
4) Provide for sheet metal design tools for fabricating equipment components		
31.3. Agriculture-Specific Features:		
1) Provide tools for designing machinery parts (such as harvesters, planters), irrigation components (pipes, valves, channels), and structural elements (runoff channels, reservoirs)		
2) Provide for import/ export of common formats (DWG/ DXF, STEP/ AP203/ 214, IGES, STL, Parasolid, etc.)		

Particulars of Business Function Requirements (CAD)

31. Research-Related Services (CAD) – Computer Aided Design (CAD)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
3) Provide for basic simulation (stress/ strain, motion) for tool durability under field conditions		
31.4. Performance & Usability:		
1) Provide for full GPU acceleration support for smooth handling of complex assemblies (medium-sized models with hundreds of parts)		
2) Provide for rendering and visualization for presentations/reports		
3) Provide for scripting/ API for customization (such as Python for repetitive agricultural designs)		
4) Provide for offline operation with local file storage		
31.5. Integration & Output:		
1) Provide for CAM basics or export for CNC/ 3D printing		
2) Provide for collaboration via shared files (no mandatory cloud dependency for core work)		
3) Provide for compatibility with common analysis tools (such as export to ANSYS or similar if needed later)		
31.6. Output and Sharing:		
1) Provide for export maps to PDF, image, and web formats		
2) Provide for reporting tools		
31.7. Security and Compliance:		
4) Provide for user access control		
5) Provide for data backup and recovery		
6) Provide for license compliance, data sovereignty (local storage preferred), and audit trails		

Particulars of Business Function Requirements (SAS)

32. Research-Related Services (SAS) – Statistical Analysis System (SAS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
✓ <i>Provide robust, cost-effective statistical analysis system primarily based on GenStat (strong in experimental design and agricultural research) and STATA (strong in survey data, econometrics, and socioeconomic analysis).</i>		
32.1. Overview and Objectives:		
32.1.1. Provide support for analysis of field trial data (e.g., ANOVA, REML/ mixed models, experimental design, GxE interactions, variety evaluation)		
32.1.2. Provide for socioeconomic survey data (e.g., descriptive stats, regression, panel data, survey weighting)		
32.1.3. Provide for data management, visualization, and reporting for research outputs		
32.1.4. Provide support for full compatibility with Windows 11 Enterprise/Pro in a Hyper-V VM environment. Suppliers must confirm compatibility and provide any necessary configuration guidance		
32.1.5. Basic reporting, visualization, and data sharing for research and stakeholder use		
32.1.6. Provide for perpetual licenses where possible or cost-effective subscriptions		
32.1.7. Users: Maximum one (1) Professional/ Pro-level user (one concurrent seat/license)		
32.2. Functional Requirements:		
32.2.1. GenStat:		
1) Provide for comprehensive experimental design (such as blocked designs, row-column, incomplete blocks, alpha designs suitable for sugarcane trials)		
2) Provide for ANOVA, REML/ mixed models, spatial analysis, multivariate analysis, GxE, genotype evaluation		
3) Provide for graphical exploration, data visualization, and reporting tools tailored for trial research		
4) Provide support for variety development data (such as repeatability, clone evaluation)		
32.3. STATA (Stata/SE):		

Particulars of Business Function Requirements (SAS)

32. Research-Related Services (SAS) – Statistical Analysis System (SAS)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
1) Provide for advanced econometrics, regression (linear, logistic, multilevel), panel/longitudinal data		
2) Provide for survey data analysis (complex survey designs, weighting, clustering)		
3) Provide for basic simulation (stress/ strain, motion) for tool durability under field conditions		
4) Provide for data management, do-files for reproducibility, graphics, and export to publication formats		
5) Provide for integration with other tools (such as import/export with Excel, R if needed)		
32.4. General:		
1) Provide for import/ export using common formats (Excel, CSV, text, databases)		
2) Provide for reproducible workflows (scripts/commands)		
3) Provide for high-quality graphics and tables for reports/publications		
4) Provide for basic integration or data sharing between GenStat and STATA		
5) Provide for license activation/ transfer process for the single VM (node-locked preferred where available)		
32.5. Non-functional:		
1) Provide for reliable performance on VM		
2) Provide for offline capability after activation		
3) Provide for data security compliant with Kenyan government standards		
32.6. Output and Sharing:		
1) Provide for export to PDF, image, and web formats		
32.7. Security and Compliance:		
1) Provide for user access control		
2) Provide for data backup and recovery		
3) Provide for license compliance, data sovereignty (local storage preferred), and audit trails		

Particulars of Business Function Requirements (VIES)

33. Corporate Services (VIES) – Video Image Editing System (VIES)

	<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
	<p><i>✓ Provide professional-grade image and audio-visual editing system to produce high-quality outputs (photos, videos, graphics, animations, audio) from research, training, and outreach events.</i></p>		
	33.1. Overview and Objectives:		
	33.1.1. Provide support for audio-visual information dissemination via website, mobile apps, social media, radio, TV broadcast, and digital platforms		
	33.1.2. Provide for cost-effectiveness (subscription vs. perpetual/one-time licenses where viable; consider total cost of ownership over 3 years)		
	33.1.3. Provide installation on a Windows 11 Pro/Enterprise VM hosted on Dell Hyper-V (Dell PowerEdge R770 server with NVIDIA L40S 48GB GPU using DDA pure passthrough)		
	33.1.4. Provide for open-source (preferred) or single desktop license for maximum one (1) pro user		
	33.1.5. Provide for perpetual licenses where possible or cost-effective subscriptions		
	33.1.6. Provide for full GPU acceleration support for editing, effects, encoding/export, and AI features		
	33.1.7. Provide for professional output quality (up to 4K/8K video, high-res images, broadcast standards)		
	33.2. Functional Requirements (support end-to-end workflows):		
	33.2.1. Image Editing & Graphics:		
	1) Provide for advanced photo manipulation, retouching, layering, masks, RAW processing		
	2) Provide for vector graphics, illustrations, infographics, diagrams for research outputs		
	3) Provide for batch processing, color management, export to web/print/broadcast formats (JPEG, PNG, TIFF, PSD, etc.)		
	4) Provide AI-powered tools (such as generative fill, object removal, upscaling, background removal)		
	33.2.2. Video & Audio-Visual Editing:		
	1) Provide for non-linear editing, multi-track timelines, trimming, transitions, titles		
	2) Provide for color grading/correction (professional scopes, LUTs, HDR support)		

Particulars of Business Function Requirements (VIES)

33. Corporate Services (VIES) – Video Image Editing System (VIES)

<u>Detailed Functions</u>	<u>Response</u>	<u>Details</u>
3) Provide for audio editing/mixing, noise reduction, voice enhancement, multi-channel support		
4) Provide for visual effects, motion graphics, keying, stabilization, speed ramping		
5) Provide for hardware-accelerated encoding/ export (H.264, H.265/ HEVC, ProRes, DNxHR, etc.)		
6) Provide for support for common input formats from cameras/ smartphones (4K/ 8K, various codecs)		
7) Provide for integration or export for social media, web, TV broadcast, and archiving		
33.3. Additional Features:		
1) Provide for asset management/ library organization with search/ metadata		
2) Provide for collaboration/export tools (though single user, future-proofing noted)		
3) Provide for collaboration/ export tools (though single user, future-proofing noted)		
4) Provide for output optimization for digital platforms (compression, formats for website/social/TV)		
5) Provide for integration with common tools (such as Microsoft Office, web platforms)		
33.4. Performance Expectations:		
1) Provide for smooth 4K+ timeline playback/editing with effects		
2) Provide for fast renders/exports leveraging full NVIDIA L40S GPU capabilities		
33.5. Non-functional:		
4) Provide for reliable performance on VM		
5) Provide for offline capability after activation		
6) Provide for data security compliant with Kenyan government standards		
33.6. Security and Compliance:		
4) Provide for user access control		
5) Provide for data backup and recovery		
6) Provide for license compliance, data sovereignty (local storage preferred), and audit trails		

Particulars of Architectural Requirements	Response	Details
iii) Architectural Requirements to be met by the ICT System		
<p><i>Compliance shall be indicated in the Table as follows:</i></p> <ul style="list-style-type: none"> ✓ With “Native”, or “Add-on”, or “3rd Party” ✓ With features “out-of-the-box”, “configurations”, or “custom developments” ✓ With emphasis on “cloud” vs. “on-premise” ✓ By adding specific metrics ✓ With "Comply", "Partially Comply", or "Not Comply" statements, supported by detailed explanations and evidence. <p><i>NB: KESRETI reserves the right to verify these capabilities during demonstrations, site visits, or proof-of-concept phases.</i></p>		
<p>The ICT System MUST be supplied and configured to implement the following architecture.:</p>		
<p>1.Overall System Architecture</p> <p>1.1. The solution must adopt a modular, layered, and scalable architecture (e.g., multi-tier: presentation, application/ business logic, data, and integration layers) supporting concurrent users, phased implementation, and future expansion without major redesign.</p> <p>1.2. Deployment Model: Primarily on-premises (hosted on the provided Dell PE R770 with NVIDIA L40S GPU), with support for hybrid/ cloud bursting if needed. Must ensure data residency in Kenya-compliant environments.</p> <p>1.3. High Availability (HA) and Redundancy: Active-active or active-passive clustering, failover mechanisms, load balancing, and no single point of failure. Minimum 99.5% uptime (or as specified in SLA).</p> <p>1.4. Scalability: Horizontal (add nodes/ servers) and vertical (resource scaling) scalability. Support for increased users, data volume (e.g., GIS datasets, statistical models, video assets), and modules.</p> <p>1.5. Microservices/ Service-Oriented Architecture (SOA): Preferred for ERP and integration; APIs (RESTful, GraphQL, or SOAP) for interoperability with existing government systems (e.g., IFMIS, e-Government portals).</p> <p>1.6. Containerization and Orchestration: Support for Docker/ Kubernetes or equivalent for portability and management (especially for GPU-accelerated workloads).</p> <p>2. Software-Specific Architectural Requirements</p> <p>2.1. ERP System:</p> <ol style="list-style-type: none"> 1) Multi-tier client-server or web-based architecture with centralized database. 2) Modular design covering core modules with workflow engine, role-based access, and audit trails. 		

Particulars of Architectural Requirements	Response	Details
<p>3) Support for real-time analytics, reporting (such as integration with statistical tools), and mobile access.</p> <p>4) Cross-Software Requirements:</p> <p>5) Seamless integration via APIs, middleware, or ESB.</p> <p>6) Single sign-on (SSO), unified user management, and common data model.</p> <p>7) Open standards for interoperability and future-proofing (avoid vendor lock-in where possible).</p> <p>3. Hardware and GPU Hosting Requirements (NVIDIA L40S 48GB on Dell PE R810)</p> <p>3.1. The NVIDIA L40S 48GB GPU must be supplied with full compatibility, drivers, CUDA Toolkit (latest compatible version, e.g., 12.x), and NVIDIA AI Enterprise or equivalent licensing/support for the workloads (AI inference/training, graphics, compute for GIS/CAD/video/statistical apps).</p> <p>3.2. Server Compatibility: Confirm/fit the L40S (PCIe Gen4 x16, 350W TDP, dual-slot FHFL) into the Dell PowerEdge R770.</p> <p>3.3. GPU Utilization: Support for GPU passthrough, vGPU (virtualization), multi-instance GPU (MIG) if applicable, and acceleration for rendering, simulation, video transcoding, statistical/ ML workloads, and GIS processing.</p> <p>3.4. Performance: Minimum benchmarks for target workloads (e.g., CUDA cores performance, memory bandwidth, power/ thermal limits). Include monitoring tools (e.g., NVIDIA DCGM).</p> <p>3.5. Infrastructure Support: Compatible OS (e.g., Linux/Windows Server with latest patches), hypervisor (if virtualized, e.g., VMware/ ESXi or Hyper-V), storage (high IOPS for large GIS/video files), and networking (10GbE+ for data transfer).</p> <p>4. Security, Compliance, and Data Architecture:</p> <p>4.1. Security: Zero-trust principles, encryption (at rest/ transit, AES-256, etc), RBAC/ABAC, audit logging, vulnerability management, and compliance with Kenya Data Protection Act, ISO 27001, and government security standards.</p> <p>4.2. Backup & Disaster Recovery (DR): Automated backups, RPO/ RTO targets (example: <15 min RPO, <4 hrs RTO), offsite replication, and tested DR plan.</p> <p>4.3. Accessibility & Usability: Responsive web interfaces, support for assistive technologies, and offline capabilities where relevant.</p>		

Particulars of Architectural Requirements	Response	Details
<p>4.4. Localization: Full support for English, Kiswahili, Kenyan date/ currency formats, and e-Government integration.</p> <p>4.5. Performance, Monitoring, and Maintainability:</p> <p>4.6. Defined SLAs for response times, throughput (such as concurrent GIS queries, video render times), and scalability testing.</p> <p>4.7. Comprehensive monitoring (such as Prometheus/ Grafana or equivalent), logging (centralized), and alerting.</p> <p>4.8. Documentation: Architectural diagrams (as-is/ to-be), data flow, ER diagrams, API specs, and operation manuals.</p> <p>4.9. Sustainability: Energy-efficient design.</p> <p>5. Implementation and Support:</p> <p>5.1. Phased approach: Requirements validation, design, installation, customization, data migration, testing (UAT, performance, security), training, go-live, and post-implementation support (such as 12 months warranty/ support).</p> <p>5.2. Knowledge transfer and capacity building for in-house team.</p> <p>5.3. Manufacturer authorization, warranties (hardware/ GPU), and local support presence in Kenya</p>		

Particulars of Systems Administration and Management Functions	Response	Details
iv) Systems Administration and Management Functions Required to be met by the ICT System		
<p><i>Compliance (Response entry) shall be indicated in the Table as follows:</i></p> <ul style="list-style-type: none"> ✓ With “Native”, or “Add-on”, or “3rd Party” ✓ With features “out-of-the-box”, “configurations”, or “custom developments” ✓ With emphasis on “cloud” vs. “on-premise” ✓ By adding specific metrics <p><i>Compliance (Details entry) shall be indicated in the Table as follows:</i></p> <ul style="list-style-type: none"> ✓ With "Comply", "Partially Comply", or "Not Comply" statements, supported by detailed explanations and evidence. <p><i>NB: KESRETI reserves the right to verify these capabilities during demonstrations, site visits, or proof-of-concept phases.</i></p>		
<p>The ICT System MUST provide for the following management, administration, and security features at the overall System level in an integrated fashion:</p> <ul style="list-style-type: none"> ○ Installation, Configuration and Change Management. ○ Operational Monitoring, Diagnostics, and Troubleshooting. ○ User Administration and Access Control. ○ System and Information Security and Security Policies. <p><i>Back-up and Disaster- Recovery.</i></p>		
1. User and Access Management:		
<p>1.1. MUST provide comprehensive, secure, and efficient systems administration and management capabilities to enable the KESRETI's ICT team and authorized administrators to effectively manage, monitor, secure, and maintain the entire solution throughout its lifecycle</p>		
<p>1.2. Must support centralized user account creation, modification, deactivation, and deletion.</p>		
<p>1.3. Must provide role-based access control (RBAC) with granular permissions at module, function, screen, and field levels.</p>		
<p>1.4. Provide support for multi-factor authentication (MFA) for all administrative and critical user logins.</p>		
<p>1.5. Provide for self-service password reset (with approval workflow where necessary) and automatic session timeout based on configurable idle periods.</p>		
2. Role and Permission Management:		
<p>2.1. MUST include a robust role management module that allows administrators to define, assign, and revoke roles dynamically.</p>		
<p>2.2. Provide support for segregation of duties (SoD) to prevent conflicts of interest (such as separation between approval and execution roles in finance and procurement modules)</p>		
<p>2.3. Provide for audit trails for all role and permission changes SHALL be maintained.</p>		

Particulars of Systems Administration and Management Functions	Response	Details
3.System Monitoring and Performance Management:		
3.1. Must provide real-time and historical monitoring dashboards for system performance, including CPU, memory, disk usage, database performance, application response times, and concurrent user sessions.		
3.2. Provide for automated alerts (via email, SMS, or in-system notifications) for predefined thresholds such as high resource utilization, downtime, or security events.		
3.3. Provide for integration with external monitoring tools (such as via SNMP or APIs).		
4.Backup and Recovery Management:		
4.1. MUST support automated, scheduled, and on-demand backups of the database, application configurations, and transaction logs.		
4.2. Provide for point-in-time recovery and full/ incremental/ differential backup strategies.		
4.3. Provide for backup status reports and restoration simulation/ testing capabilities		
Provide support for integration with the KESRETI's existing backup infrastructure or enterprise backup solutions.		
5.Logging, Auditing, and Compliance:		
5.1. MUST implement comprehensive audit logging for all critical actions, including user logins/ logouts, data creation/ modification/ deletion, configuration changes, and administrative activities.		
5.2. Provide for logs to capture who, what, when, and from where (IP address) an action occurred, and shall be tamper-proof with read-only access for auditors.		
5.3. Provide support for export of logs in standard formats (such as CSV, PDF, XML) and retention policies configurable per regulatory requirements (such as Kenya's Data Protection Act and PPADA provisions).		
6.Security Management:		
6.1. MUST include built-in security features such as encryption of data at rest and in transit (using industry-standard algorithms), vulnerability scanning integration, patch management alerts, and intrusion detection/ prevention capabilities.		
6.2. Provide support for secure API management and single sign-on (SSO) integration with the Procuring Entity's existing identity management systems (such as Active Directory or other IAM solutions).		
7.Configuration and Change Management:		

Particulars of Systems Administration and Management Functions	Response	Details
7.1. MUST enable Administrators to configure system parameters, workflows, approval hierarchies, and business rules without requiring code changes where possible (low-code/ no-code approach preferred).		
7.2. Provide for version-control of all configuration changes with approval workflows and full audit history.		5696487
8.System Maintenance and Updates:		
8.1. MUST support seamless application of patches, updates, and upgrades with minimal downtime (such as via rolling updates or blue-green deployment where applicable).		
8.2. Provide tools for health checks, diagnostic reports, and automated notification of available updates from the vendor.		
9.High Availability and Disaster Recovery:		
9.1. Must be designed to support high availability configurations (such as clustering, load balancing, failover).		
9.2. Provide for disaster recovery strategy, including Recovery Time Objective (RTO) and Recovery Point Objective (RPO) targets acceptable to the Procuring Entity (to be detailed in the technical proposal).		
10.Reporting and Analytics for Administration:		
10.1. Must provide administrative reports on system usage, user activity, license utilization, error logs, and compliance metrics.		
10.2. Provide for custom report generation for administrative purposes.		

Particulars of Performance Requirements of ICT System	Response	Comments
v) Performance Requirements of the ICT System		
<p><i>Compliance (Response entry) shall be indicated in the Table as follows:</i></p> <ul style="list-style-type: none"> ✓ With “Native”, or “Add-on”, or “3rd Party” ✓ With features “out-of-the-box”, “configurations”, or “custom developments” ✓ With emphasis on “cloud” vs. “on-premise” ✓ By adding specific metrics <p><i>Compliance (Details entry) shall be indicated in the Table as follows:</i></p> <ul style="list-style-type: none"> ✓ With "Comply", "Partially Comply", or "Not Comply" statements, supported by detailed explanations and evidence. <p><i>NB: KESRETI reserves the right to verify these capabilities during demonstrations, site visits, or proof-of-concept phases.</i></p>		
The ICT System MUST reach the following performance levels.:		
1. System Availability and Uptime:		
1.1. Must achieve a minimum availability of 99.5% (excluding scheduled maintenance windows) measured monthly.		
1.2. Provide for scheduled maintenance not to exceed four (4) hours per month and be conducted during off-peak hours (between 00:00 and 06:00 hours) with prior approval of the KESRETI.		
1.3. Provide for built-in redundancy, failover mechanisms, and disaster recovery capabilities to ensure business continuity.		
2. Response Times:		
2.1. Provide for interactive user response time (screen refresh, query execution, and transaction commit) for standard operations not to exceed 2 seconds for 95% of transactions under peak load.		
2.2. Provide for complex reports and dashboards (involving large datasets or multi-module integration) to be generated and displayed within 10 seconds for 90% of cases.		
2.3. Provide for batch processing jobs (such as payroll runs, month-end closures, or inventory reconciliations) to complete within predefined windows agreed during the implementation phase, with real-time or near-real-time processing where applicable.		
3. Throughput and Scalability:		
3.1. Provide for handling of a minimum of 1,000 transactions per minute during peak periods without degradation of performance.		
3.2. Provide for horizontal and vertical scalability to accommodate increasing data volumes (projected annual growth of 20–30%) and user base without requiring major architectural changes.		

Particulars of Performance Requirements of ICT System	Response	Comments
3.3. Provide support for both cloud and on-premise deployment with seamless migration options.		
4. Data Processing and Concurrency:		
4.1. Must support concurrent multi-user access with proper locking mechanisms to prevent data inconsistencies.		
4.2. Must maintain data integrity during high-volume operations such as financial postings, procurement approvals, and HR transactions.		
4.3. Must support real-time or near-real-time data synchronization across integrated modules.		
5. Security and Compliance Performance:		
5.1. Provide for enforcement of role-based access control (RBAC), audit logging of all transactions, and compliance with the Data Protection Act, 2019, and other relevant Kenyan laws and standards (including ISO 27001 principles where applicable).		
5.2. Provide that security operations (such as authentication, authorization, and encryption/decryption) do not introduce perceptible delays exceeding 500 milliseconds.		
6. Backup and Recovery:		
6.1. Provide for automated backups to be configurable with a Recovery Point Objective (RPO) of not more than 15 minutes and a Recovery Time Objective (RTO) of not more than 4 hours for critical modules.		
6.2. Provide for full system restore and recovery testing to be demonstrated during User Acceptance Testing (UAT).		
7. Performance Monitoring and Reporting:		
7.1. Must include built-in performance monitoring tools and dashboards that provide real-time alerts on system health, resource utilization (CPU, memory, disk I/O, network), and key performance indicators.		
7.2. Provide tools for proactive performance tuning and capacity planning.		
8. Load and Stress Testing:		
8.1. Provide for implementation of comprehensive load, stress, and volume testing during the implementation phase using simulated production data and user loads.		
8.2. Provide for deficiencies rectification at no additional cost to KESRETI before Go-Live.		
9. General Performance Standards:		
9.1. Solution must be based on modern, proven technologies that are vendor-supported and aligned with industry best practices.		

Particulars of Performance Requirements of ICT System	Response	Comments
9.2. Performance degradation due to poor design, inadequate hardware sizing, inefficient coding, or lack of optimization shall be the responsibility of the Bidder.		

Particulars of System Analysis, Design and Customization/ Development	Response	Details
vi) System Analysis, Design and Customization/ Development		
<p>Compliance (Response entry) shall be indicated in the Table as follows:</p> <ul style="list-style-type: none"> ✓ With “Native”, or “Add-on”, or “3rd Party” ✓ With features “out-of-the-box”, “configurations”, or “custom developments” ✓ With emphasis on “cloud” vs. “on-premise” ✓ By adding specific metrics <p>Compliance (Details entry) shall be indicated in the Table as follows:</p> <ul style="list-style-type: none"> ✓ With "Comply", "Partially Comply", or "Not Comply" statements, supported by detailed explanations and evidence. <p>NB: KESRETI reserves the right to verify these capabilities during demonstrations, site visits, or proof-of-concept phases.</p>		
The Supplier MUST perform the following Analysis and Design activities using a formal system analysis/ development methodology:		
1. System Analysis and Requirements Gathering:		
1.1. Provide for detailed business process analysis and gap analysis of KESRETI's existing systems and manual processes across all relevant modules (as specified under business system requirements above).		
1.2. Provide for stakeholder workshops, user interviews, document reviews, and site visits to all departments and field offices.		
1.3. Provide for identification of pain points, redundancies, and opportunities for process optimization and automation.		
1.4. Provide for development of comprehensive Requirements Specification Document (RSD) detailing user requirements, functional and non-functional requirements, data migration needs, reporting requirements, and integration points with legacy systems and third-party applications.		
2. System Design:		
2.1. Provide for development of a detailed System Design Document (SDD), including:		
2.1.1. High-level and low-level architectural design (logical and physical).		
2.1.2. Database design (entity-relationship diagrams, data dictionary, and normalization).		
2.1.3. User interface (UI/ UX) design prototypes for all modules, ensuring accessibility, mobile responsiveness, and user-friendliness.		
2.1.4. Integration architecture with existing systems via APIs or middleware.		
2.1.5. Security design, including role-based access control (RBAC), audit trails, encryption, and compliance with ISO 27001 or equivalent standards.		

Particulars of System Analysis, Design and Customization/ Development	Response	Details
2.1.6. Business process re-engineering proposals to align with best practices and the Procuring Entity's strategic plan.		
3. System Development/ Customization:		
3.1. Provide for customization or development of ERP solution to meet the approved functional and technical requirements.		
3.2. Provide for full customization of modules, workflows, reports, and dashboards where an off-the-shelf solution is proposed.		
3.3. Provide for new module development or extension to follow waterfall methodology (as specified for this project).		
3.4. Provide for source code ownership to vest in KESRETI where custom development occurs.		
3.5. Provide for development to adhere to industry standards (such as secure coding practices, etc.) and include version control, documentation of code, and unit testing at every stage.		
3.6. Provide for seamless data migration from legacy systems with minimal downtime, including data cleansing, mapping, and validation.		
4. Deliverables and Milestones:		
4.1. Provide for key deliverables for this phase to include:		
4.1.1. Inception Report and Detailed Work Plan		
4.1.2. Approved Requirements Specification Document (RSD)		
4.1.3. System Design Document (SDD), including diagrams, prototypes, and architecture blueprints		
4.1.4. Customized/ Developed functionalities with complete documentation (user manuals, technical manuals, and API documentation)		
4.1.5. Data migration strategy and test results		
5. Standards and Compliance:		
5.1. The analysis, design, and development shall comply with:		
5.1.1. PPRA guidelines and the Public Procurement and Asset Disposal Act, 2015		
5.1.2. Kenya's ICT standards and guidelines issued by the ICT Authority (ICTA)		
5.1.3. Relevant laws including the Computer Misuse and Cybercrimes Act, 2018, and the Access to Information Act, 2016		
5.1.4. Best practices such as ITIL, COBIT, or PRINCE2 for project management		
5.2. Provide for detailed methodology and work plan for this phase as part of the technical proposal, clearly indicating		

Particulars of System Analysis, Design and Customization/ Development	Response	Details
timelines, resources (including key personnel with relevant qualifications and experience in ERP implementations), and risk mitigation measures		
5.3. Completion shall be within the timelines specified in the Implementation Schedule, with regular progress reports and milestone payments tied to approved deliverables.		
5.4. Failure to meet the quality standards or timelines in this phase may result in penalties as provided in the Special Conditions of Contract or termination of the contract		

Particulars of System Integration (to other existing systems)	Response	Details
vii) System Integration (to other existing systems)		
<p><i>Compliance (Response entry) shall be indicated in the Table as follows:</i></p> <ul style="list-style-type: none"> ✓ With “Native”, or “Add-on”, or “3rd Party” ✓ With features “out-of-the-box”, “configurations”, or “custom developments” ✓ With emphasis on “cloud” vs. “on-premise” ✓ By adding specific metrics <p><i>Compliance (Details entry) shall be indicated in the Table as follows:</i></p> <ul style="list-style-type: none"> ✓ With "Comply", "Partially Comply", or "Not Comply" statements, supported by detailed explanations and evidence. <p><i>NB: KESRETI reserves the right to verify these capabilities during demonstrations, site visits, or proof-of-concept phases.</i></p>		
The Supplier MUST perform the following Integration Services:		
1. Systems Integration (where applicable):		
1.1. Must integrate with the following existing systems and platforms (among others that may be identified during the detailed requirements gathering phase):		
1.1.1. Government Investment Management Information System (GIMIS)		
1.1.2. Revenue collection and billing systems (e-Citizen, KRA-ITax, etc.)		
1.1.3. Human Resource Management Information System (HRMIS) or any existing payroll and staff management platforms		
1.1.4. Government e-Procurement System (or PPRA-related platforms) for supply chain and tendering processes.		
1.1.5. External government portals and compliance systems (such as PC, etc.)		
1.1.6. Legacy departmental applications, databases, or third-party tools currently in use		
1.1.7. Future systems or digital initiatives		
2. Integration Requirements (where applicable):		
2.1. Provide for industry-standard integration approaches, including but not limited to Application Programming Interfaces (APIs) (RESTful, SOAP, or GraphQL as appropriate), middleware solutions, Enterprise Service Bus (ESB), or secure file-based/data exchange mechanisms (such as XML, JSON, or EDI formats)		
2.2. Provide support real-time or near-real-time data synchronization where required for operational efficiency, with batch processing permitted only for non-critical, high-volume data transfers		
2.3. Provide for bidirectional data flow with appropriate data mapping, transformation, and validation rules to maintain data integrity and consistency across systems.		

Particulars of System Integration (to other existing systems)	Response	Details
2.4. Provide detailed mapping documents and transformation logic for all integrated data elements.		
3. Data Security and Compliance:		
3.1. Provide for robust security controls, including encryption in transit and at rest (using approved standards such as TLS 1.3 or higher), role-based access control (RBAC), audit logging of all integration transactions, and compliance with the Data Protection Act, 2019, and any relevant Government of Kenya cybersecurity guidelines.		
3.2. Provide mitigation against unauthorized access or data leakage between integrated platforms		
3.3. Provide for comprehensive integration assessment during the inception phase, including gap analysis of existing systems, identification of integration points, potential risks, and mitigation measures.		
3.4. Provide for detailed Systems Integration Plan to be submitted for approval within 14 days of contract signing. This plan must include architecture diagrams, integration workflows, testing strategy, rollback procedures, and a risk register.		
4. Testing and Validation:		
4.1. Provide for thorough integration testing, including unit, system, integration, regression, stress/load, and user acceptance testing (UAT).		
4.2. End-to-end testing scenarios must demonstrate seamless data exchange and business process continuity. Any defects identified must be rectified at no additional cost to KESRETI.		
5. Change Management and Minimal Disruption:		
5.1. Provide for integration activities to be planned and executed with minimal disruption to ongoing operations.		
5.2. Provide for phased integration approach (e.g., pilot with selected modules, followed by full rollout) and provide detailed cutover and go-live plans, including data migration strategies where legacy data needs to be transferred.		
6. Training and Knowledge Transfer:		
6.1. Provide for specialized training on integration management, monitoring, troubleshooting, and maintenance to the KESRETI's ICT team and designated core users.		
6.2. Provide for comprehensive documentation, including API specifications, integration manuals, and operational guides, must be provided in both hard and soft copy formats.		

Particulars of System Integration (to other existing systems)	Response	Details
7. Post-Implementation Support:		
7.1. Provide ongoing integration support, including monitoring of integration performance, timely resolution of integration-related incidents, and updates to integration components for the duration of the warranty and support period.		
7.2. Provide for performance SLAs for integration uptime and data accuracy.		
7.3. Provide for open and extensible design architecture to facilitate future integrations with new systems or emerging government digital platforms without requiring major redevelopment.		
8. Failure to achieve seamless and reliable systems integration that meets KESRETI's operational needs shall constitute a material breach of contract and may result in penalties, withholding of payments, or termination as provided in the Contract Conditions.		

Particulars of Training and Training Materials	Response	Details
viii) Training and Training Materials		
The Bidders must provide the following Training Services and Materials.		
1. Training and Training Materials:		
1.1. Provide for training to be conducted in English (or Kiswahili where necessary for end-users), at KESRETI's premises or a mutually agreed venue		
1.2. Provide for training to be practical, hands-on, and tailored to the specific modules and user roles of the ERP System		
2. Key Training Requirements:		
2.1. Training Needs Assessment:		
2.1.1. Provide for comprehensive training needs assessment within the first two (2) weeks after contract signing to identify user groups, skill levels, and customized training requirements across all modules		
3. Types of Training:		
3.1. End-User Training: Hands-on training for at least 100 end-users (including temporary/ daily users, power users, and departmental heads). This shall cover day-to-day system navigation, data entry, transaction processing, reporting, and basic troubleshooting.		
3.2. Super-User/ Key User Training: In-depth training for at least 50 super-users and system administrators on advanced functionalities, configuration, customization, data migration oversight, and first-level support.		
3.3. Technical/ IT Staff Training: Training for the Procuring Entity's ICT team (at least 10 staff) on system administration, database management, security administration, backup and recovery procedures, integration with existing systems, performance monitoring, and basic customization using the ERP's development tools		
3.4. Management/ Executive Training: Overview sessions for senior management on dashboards, key performance indicators (KPIs), decision-support reporting, and system benefits realization		
3.5. Change Management and Adoption Training: Sessions on change management, data integrity, and best practices for successful ERP adoption to minimize resistance and ensure smooth transition from legacy systems.		
4. Training Duration and Schedule:		

Particulars of Training and Training Materials	Response	Details
4.1. Provide for phased training aligned with the project implementation schedule (e.g., post-configuration/customization, pre-go-live, and post-go-live).		
4.2. Provide for minimum 1,200 person-hours total training hours distributed across the various user categories		
4.3. Provide for refresher training to be provided free of charge at least once within the first six (6) months after go-live and upon request during the warranty period		
5. Training Materials:		
5.1. Provide high-quality, Software-vendor-specific training materials in both soft copy (editable formats such as PDF, Word, interactive e-learning modules, and video tutorials) and hard copy (where required).		
5.2. Provide for training materials to include:		
5.2.1. User manuals and quick reference guides for each module and user role		
5.2.2. Trainer and trainee workbooks with exercises, case studies, and sample data relevant to the Procuring Entity's operations		
5.2.3. Video recordings of all training sessions		
5.2.4. Online help files, FAQs, and interactive simulations embedded in the ERP System		
5.2.5. Any necessary licenses for e-learning platforms or training software used		
5.3. Provide for all materials to become the property of KESRETI and may be reproduced or modified internally without restriction		
6. Trainers and Certification:		
6.1. Provide for Trainers to be certified by the Software OEM (or equivalent) and have a minimum of five (5) years of relevant experience in implementing and training on similar software systems in Kenya or comparable environments.		
6.2. Provide for certificates of completion to all trained personnel, signed by both the Bidder and KESRETI		
7. Evaluation and Acceptance:		
7.1. Provide for evaluation of training effectiveness through pre- and post-training assessments, user feedback surveys, and practical demonstrations		
7.2. KESRETI reserves the right to request additional training sessions at no extra cost if the agreed competency levels are not achieved		

Particulars of Training and Training Materials	Response	Details
7.3. Training shall be considered complete only upon written acceptance by KESRETI's designated Project Manager or Steering Committee		
8. Ongoing Support:		
8.1. During the warranty and post-warranty support periods, the Bidder shall provide free access to updated training materials and ad-hoc training sessions as may be required due to system upgrades or staff turnover (up to a maximum of 600 person-hours per year).		

Particulars of Documentation Requirements	Response	Comments
ix) Documentation Requirements		
The Supplier MUST prepare and provide the following Documentation:		
1. Project Documentation:		
1.1. Provide for detailed Project Implementation Plan:		
1.1.1. All sub-plans (e.g., Project Management, Configuration, Customization, Data Migration, Testing, Training, Change Management, and Risk Management).		
1.1.2. Minutes of all project meetings, progress reports, and issue logs		
1.2. Configuration and Customization Specifications:		
1.2.1. Detailed records of all system configurations, custom developments, workflows, business rules, interfaces, and integrations with other systems (e.g., IFMIS, HRMIS, e-GP, or any legacy systems)		
1.3. Data Migration Strategy and Mapping Documents:		
1.3.1. Source-to-target data mapping, cleansing rules, validation scripts, and migration logs		
2. System Documentation:		
2.1. Functional Documentation:		
2.1.1. Provide for comprehensive user manuals for all ERP modules		
2.1.2. Provide for step-by-step procedures, screenshots of the configured system, business process flows, and real-life examples based on KESRETI's processes		
3. Technical Documentation:		
3.1. Provide for system architecture diagrams, database schema and data dictionary, API/ integration specifications, security configuration details (roles, permissions, audit trails), backup and recovery procedures, disaster recovery plan, and performance tuning guidelines.		
4. Administration and Operations Manual:		
4.1. Provide guidance for system administrators covering user management, security administration, batch jobs, system monitoring, patching, and routine maintenance.		
5. As-Built Documentation:		
5.1. Final "as-implemented" diagrams, configurations, and custom code with version control and change history.		
6. Testing and Quality Assurance Documentation:		
6.1. Provide for test plans, test cases, test scripts, and detailed test results (unit, integration, system, user acceptance testing - UAT)		
6.2. Provide for defect logs and resolution reports.		

Particulars of Documentation Requirements	Response	Comments
6.3. Provide for Performance test results and load testing reports		
7. Warranty and Support Documentation:		
7.1. Provide for Service Level Agreement (SLA) implementation procedures		
7.2. Provide for maintenance and support manuals, including escalation procedures and contact details		
7.3. Provide for source code (for any custom developments) with escrow arrangement where applicable, or full access rights as per the contract		
8. Format and Quality Standards:		
8.1. Provide for all documents to be clear, well-structured, professionally presented, and include a table of contents, glossary, index, and revision history		
8.2. Provide for hard copies to be provided in A4 size, professionally printed and bound (at least 3 complete sets for key users and 1 set per department)		
8.3. Provide for soft copies to be provided on USB drives/ DVDs and also uploaded to a secure shared repository during implementation. All electronic files shall be fully searchable and editable (except final signed versions).		
8.4. Provide for documentation to reflect the final “go-live” configuration of the ERP system and shall be updated at no additional cost during the warranty and post-warranty support periods for any changes implemented by the Supplier.		
8.5. Provide for detailed Documentation Delivery Plan as part of the Preliminary Project Plan for KESRETI’s approval within thirty (30) days after contract signing.		
8.6. Provide for final documentation to be delivered not later than two (2) weeks before the commencement of User Acceptance Testing and to be updated to “final” status prior to system go-live.		

Particulars of Supplier's Technical Team	Response	Details
x) Requirements of the Supplier's Technical Team		
The Supplier MUST maintain a technical team of the following roles and skill levels during the Supply and Installation Activities under the Contract:		
1)Project Team Leader: 1.1. Project Team Leader (1 person, full-time during implementation) 1.2. Education: Bachelor's degree (or higher) in Computer Science, ICT, Information Systems, or related engineering field. 1.3. Certifications: PMP or PRINCE2 (mandatory); ITIL Foundation or equivalent; relevant vendor certifications (such as Microsoft for server environments) as an advantage. 1.4. Years' experience: Minimum 7-10 years in IT project management. 1.5. Demonstrated successful experience: Led at least 3 similar projects (supply, installation, configuration, customization, and commissioning of enterprise server systems including domain controllers, databases, and web/application servers) in the last 7 years, preferably for Kenyan government or public-sector entities. Must show end-to-end responsibility for projects of comparable scale/complexity (budget, timeline, stakeholder management). Local Kenyan public-sector experience is highly advantageous for regulatory familiarity (such as Data Protection Act, PPADA compliance).		
2)System Analyst: 2. System Analyst (at least 1) 2.1. Education: Bachelor's degree/ Diploma in computer science, ICT, or Information Systems. 2.2. Certifications: CBAP, IREB, or equivalent systems analysis certification; domain-specific (such as Microsoft or database analysis tools) as advantage. 2.3. Years' experience: Minimum 7 years in systems analysis and design. 2.4. Demonstrated successful experience: Conducted requirements gathering, gap analysis, functional/ non-functional design, and documentation for at least 3 enterprise server-based systems (involving domain controllers, databases, storage, and web tiers) in government or large organizational settings. Proven deliverables include detailed design documents and successful translation into configured/ customized solutions.		
3)Database Expert: 3. Database Expert (at least 1) 3.1. Education: Bachelor's degree/ Diploma in computer science, ICT, or related. 3.2. Certifications: Database admin (SQL Server, Oracle, PostgreSQL), MCDBA or modern cloud/ DBA equivalents, integration (API/ ETL), and cybersecurity (CEH, CompTIA Security+, ISO 27001, etc.).		

Particulars of Supplier's Technical Team	Response	Details
<p>3.3. Years' experience: Minimum 5 years in database administration and design, database setup, data migration, system integration (ERP GIS others), and security hardening.</p> <p>3.4. Demonstrated successful experience: Designed, installed, configured, optimized, and migrated databases for at least 3 similar multi-tier server environments (database/ application servers with storage integration). Experience with high-availability setups, backup/recovery, and performance tuning in production government systems.</p>		
<p>4) Programming Expert:</p>		
<p>4. Programming Expert (at least 1)</p> <p>4.1. Education: Bachelor's degree/ Diploma in Computer Science, ICT, Software Engineering, or related.</p> <p>4.2. Certifications: Vendor-specific (such as Microsoft .NET, Java, or web technologies for the application/ web server stack); relevant programming or development certifications.</p> <p>4.3. Years' experience: Minimum 7 years in software development and customization.</p> <p>4.4. Demonstrated successful experience: Developed/ customized applications or integrations for at least 3 enterprise systems involving web servers, application servers, and backend databases. Must cover configuration/ customization as per user requirements, with successful commissioning/ handover.</p>		
<p>5) System Administration:</p>		
<p>5. System Administration / Security Expert (at least 1)</p> <p>5.1. Education: Bachelor's degree/ Diploma in Computer Science, ICT, or related.</p> <p>5.2. Certifications: MCSA/ MCSE (Windows Server/ Active Directory); CompTIA Security+, CISSP, or CEH; ITIL for admin processes.</p> <p>5.3. Years' experience: Minimum 7 years in system administration and security.</p> <p>5.4. Demonstrated successful experience: Implemented and administered domain controllers (Active Directory), secured multi-server environments (including storage and web servers), performed hardening, access control, and compliance audits for at least 3 similar projects. Critical for Kenyan government: experience with data protection, cybersecurity standards, and integration in public-sector networks.</p>		

Particulars of Supplier's Technical Team	Response	Details
<p>6) Hardware / Systems Engineer – GPU & Server Specialist:</p> <p>6. Bachelor's/ Diploma in Electronics, ICT, or related.</p> <p>6.1. NVIDIA certifications (e.g., NVIDIA Certified Professional or equivalent for L40S), Dell EMC server certifications (PowerEdge).</p> <p>6.2. Minimum 5 years' experience in server hardware, GPU installation/configuration (data center/AI/ML workloads), drivers, CUDA, and compatibility testing.</p> <p>6.3. Specific experience installing NVIDIA L40S (or similar high-end GPUs) on Dell PowerEdge servers (R770 compatible; supports up to 2x L40S 48GB, 350W double-width).</p> <p>6.4. Knowledge of power/cooling requirements, PCIe slots, BIOS/firmware updates, and performance benchmarking.</p>		
<p>7) Network and Communications Expert:</p> <p>7. Network and Communications Expert (at least 1)</p> <p>7.1. Education: Bachelor's degree in ICT, Telecommunications, or related.</p> <p>7.2. Certifications: CCNA (mandatory); CCNP or equivalent as advantage.</p> <p>7.3. Years' experience: Minimum 5 years in network design and implementation.</p> <p>7.4. Demonstrated successful experience: Designed, implemented, and troubleshoot networks for server infrastructures (VLANs, firewalls, domain integration, web access, storage networking) in at least 3 similar projects. Experience with government networks, bandwidth optimization, and secure communications is essential.</p>		
<p>8) ERP Specialist:</p> <p>8. ERP Specialist/ Lead Functional Consultant (1-2 persons)</p> <p>8.1. Bachelor's/ Diploma in ICT, Finance, Accounting, or related.</p> <p>8.2. Certified in the proposed ERP system (Microsoft Dynamics 365, SAP, Oracle, or equivalent) with module-specific expertise (Finance, HR, Procurement, etc.).</p> <p>8.3. Minimum 7 years' experience in ERP implementation, customization, data migration, and integration</p>		
<p>9) GIS Specialist:</p> <p>9. GIS Specialist (1 person)</p> <p>9.1. Bachelor's/ Diploma in Geospatial Science, GIS, Geomatics, or related ICT field.</p> <p>9.2. Professional certifications: ESRI ArcGIS, QGIS, or equivalent for the proposed GIS software.</p>		

Particulars of Supplier's Technical Team	Response	Details
<p>9.3. Minimum 5 years' experience in GIS software supply, installation, customization, data modeling, and integration with ERP/ other systems.</p> <p>9.4. Experience with spatial databases, mapping, and government land/cadastral projects preferred</p>		
10) CAD Specialist:		
<p>10. CAD Specialist (1 person)</p> <p>10.1. Degree/ Diploma in Engineering, Architecture, ICT, or related with CAD focus.</p> <p>10.2. Certifications in proposed CAD software (e.g., AutoCAD, Revit, or equivalent).</p> <p>10.3. Minimum 5 years' experience in CAD software deployment, customization, 2D/3D modeling, and integration in technical/engineering environments</p>		
11) Statistical Analysis Specialist:		
<p>11. Statistical Analysis Specialist (1 person)</p> <p>11.1. Degree in Statistics, Data Science, Mathematics, or ICT with analytics focus.</p> <p>11.2. Certifications in proposed tools (SPSS, R, SAS, Stata, Python/R for stats, or equivalent).</p> <p>11.3. Minimum 5 years' experience in statistical software supply, installation, scripting, data analysis pipelines, and integration/ reporting</p>		
12) Video Editing/ Multimedia Specialist:		
<p>12. Video Editing/ Multimedia Specialist (1 person)</p> <p>12.1. Degree in Multimedia, ICT, Media Studies, or related.</p> <p>12.2. Certifications in proposed video editing software (e.g., Adobe Premiere Pro, DaVinci Resolve, Final Cut, or equivalent).</p> <p>12.3. Minimum 5 years' experience in professional video editing software deployment, workflow optimization, hardware acceleration (GPU), and training</p>		
13) Integration & Security Specialist:		
<p>13. Integration & Security Specialist (1 person)</p> <p>13.1. Degree in ICT/ Computer Science, or related field.</p> <p>13.2. Certifications: Database admin (SQL Server, Oracle, PostgreSQL), integration (API/ ETL), and cybersecurity (CEH, CompTIA Security+, ISO 27001, etc.).</p> <p>13.3. Minimum 6-8 years' experience in database setup, data migration, system integration (ERP GIS others), and security hardening.</p>		
14) Additional Team/ Support Requirements		
<p>14. Support Team: Post-go-live technical support desk (response times: 2-4 hours critical, 24 hours others).</p>		

Particulars of Supplier's Technical Team	Response	Details
<p>14.1. Backup Personnel: Named deputies for key roles.</p> <p>14.2. OEM/ Partner Involvement: Manufacturer-authorized engineers for NVIDIA GPU, ERP vendor, GIS/ CAD vendors (attach authorization letters).</p> <p>14.3. Evaluation Weighting (Typical): Qualifications & certifications (30-40%), Relevant experience & similar projects (40-50%), Availability & CV quality (10-20%).</p>		
<p>The firms (if any) that provided consulting services for the contract being tendered for are:</p> <p>NOT APPLICABLE</p>		
<p>The firms (if any) that provided consulting services for the contract being tendered for are:</p> <p>NOT APPLICABLE</p>		

Particulars of Technology Specifications – Supply& Install Items	Response	Comments
C. Technology Specifications– Supply& Install Items		
I. General Technical Requirements (where applicable)		
1. Software Architecture and Platform Requirements:		
1.1. Provide for multi-tier architecture (presentation, application/business logic, and data tiers) using open standards to ensure flexibility and vendor neutrality where possible.		
1.2. Provide support for web-based access via modern browsers (Google Chrome, Mozilla Firefox, Microsoft Edge) with responsive design for desktop, laptop, and mobile devices.		
1.3. Provide for development using a service-oriented architecture (SOA) or microservices where applicable, supporting RESTful APIs, web services (SOAP/REST), and standard integration protocols (such as JSON, XML, OData).		
1.4. Provide support for multi-tenancy (for cloud-hosted) or strong isolation mechanisms (for on-premise) and allow for role-based access control (RBAC) at module, function, and data levels.		
2. Hardware and Infrastructure Requirements:		
2.1. Bidders shall recommend the minimum server specifications, storage, networking, and redundancy requirements (such as application servers, database servers, failover clusters, load balancers, network and bandwidth requirements, etc.).		
3. Security and Compliance:		
3.1. Provide for enterprise-grade security features, including but not limited to: multi-factor authentication (MFA), encryption (TLS 1.3+), role-based and attribute-based access control, session management, intrusion detection/prevention capabilities, and comprehensive audit logging.		
3.2. Provide for compliance with relevant Kenyan laws and standards, including the Data Protection Act, 2019, ISO 27001 (or equivalent), and any PPRA/ICTA guidelines on government IT systems.		
3.3. Provide for secure integration with external systems such as IFMIS, e-Government portals, KRA iTax, National Treasury systems, and any other specified government platforms using secure APIs.		
4. Integration and Interoperability:		

Particulars of Technology Specifications – Supply& Install Items	Response	Comments
4.1. Provide open, documented APIs and integration tools to interface with the Procuring Entity's existing and future systems, including financial management systems, procurement portals, biometric/HR systems, document management systems, and third-party applications.		
4.2. Provide support for standard integration formats and protocols to minimize custom coding.		
5. Installation, Configuration, and Commissioning:		
5.1. Provide for complete supply, delivery, installation, configuration, and customization of the ERP system at the KESRETI head office.		
5.2. Provide for all software licenses (perpetual or subscription, as proposed) to be provided in the KESRETI's name or transferred to the KESRETI, with full ownership rights upon final acceptance.		
5.3. Provide for installation and configuration of all necessary middleware, operating systems, security patches, and supporting tools.		
5.4. Provide for post-installation system tuning, stress/load testing, and performance optimization to meet the agreed service levels.		
5.5. Provide detailed technical specifications, architecture diagrams, licensing models, hardware sizing calculations (if applicable), and compliance matrices for all the above requirements as part of their technical proposal.		
5.6. Provide for detailed Technology Deployment Plan for approval within 14 days of contract signing, including timelines, responsibilities, risk mitigation measures, and acceptance criteria for each component.		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specification – Supply & Install Items			
II. Computing Hardware Specifications			
1. Server GPU and PSU			
Criteria	Specification		
1) Quantity:	One (1) GPU; Two (2) PSU		
2) GPU Make:	NVIDIA		
3) GPU Model:	L40S		
4) GPU Storage:	48GB		
5) GPU Size:	Dual Width		
6) GPU Power:	350W		
7) PSU Rating:	2400W		
8) PSU Size:	2U server compatible		
9) Compatibility:	Dell PE R770; PCIe Gen4 x16, 350W TDP, dual-slot FHFL; full compatibility, drivers;		
10) AI Support:	NVIDIA AI Enterprise or equivalent licensing/ support for the workloads (AI inference/training, graphics, compute for GIS/ CAD/ video/statistical apps)		
11) GPU Utilization:	Support for GPU passthrough, vGPU (virtualization), multi-instance GPU (MIG), and acceleration for rendering, simulation, video transcoding, statistical/ ML workloads, and GIS processing.		
12) Performance:	Minimum benchmarks for target workloads (such as CUDA cores performance, memory bandwidth, power/ thermal limits).		
13) Monitoring:	Include monitoring tools (such as NVIDIA DCGM).		
14) CUDA Toolkit:	latest compatible version, such as 12.x		
15) Security:	Zero-trust principles, encryption (at rest/transit, such as AES-256).		
16) Accessibility & Usability:	Responsive web interfaces, support for assistive technologies.		
17) Connectivity:	Wi-Fi 6E/ 7, Ethernet and Bluetooth 5.2		
18) Maintenance Support:	Renewable 3-year contract for repairs and parts replacements.		
19) Warranty:	3 Year GPU & PSU		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specification – Supply & Install Items			
II. Computing Hardware Specifications			
1. Personal Computers: [Not Included]			
<u>Criteria</u>	<u>Specification</u>		

Particulars of Technology Specifications– Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
III. Network and Communications Specifications			
1. Network and Communication Devices: [Not Included]			
<u>Criteria</u>	<u>Specification</u>		

Particulars of Technology Specifications– Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
IV. Ancillary Hardware Specifications			
1. Shared Output and Input Devices: [Not Included]			
<u>Criteria</u>	<u>Specification</u>		

Particulars of Technology Specifications– Supply& Install Items		Response	Comments
C. Technology Specifications– Supply& Install Items			
IV. Ancillary Hardware Specifications			
2. Shared Data Storage Devices: [Not Included]			
3. Power Conditioning Devices: [Not Included]			
4. Specialized Furnishing/ Equipment: [Not Included]			
5. Environment Control Equipment: [Not Included]			
6. Physical Access Control Equipment: [Not Included]			
7. Logical Access Control Equipment: [Not Included]			

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
1. System Software and System Management Utilities: [Processing unit type I]:			
1. Client (PC) Operating System Specifications			
Criteria	Specification		
1) Operating System Edition:	Microsoft Windows 11 Enterprise (latest available such as 24H2 or successor)		
2) Base Requirement	Full Enterprise (and Pro) features required		
3) Upgrade Requirement:	Must include upgrade license to qualifying Windows 11 Pro (or equivalent base license)		
4) Licensing Model:	Microsoft Volume Licensing (preferred: MPSA, Open Value for Government, or Enterprise Agreement).		
5) License Number:	200 licenses (per device or per user as applicable and scalable)		
6) License Upgrade:	Must include Software Assurance for upgrades, support, and deployment rights.		
7) License Activation:	Support for Volume Activation (KMS/ MAK/ Active Directory-Based).		
8) License Deployment:	Must include imaging/ deployment tools and rights for centralized management.		
9) Security Features	Full Enterprise features:		
	1) AppLocker		
	2) Credential Guard		
	3) Device Guard/ WDAC		
	4) BitLocker		
	5) Windows Hello		
	6) Secure Boot		
	7) advanced threat protection integration (compatible with Microsoft Defender for Endpoint)		
	8) Compliance with Kenya government data protection standards		
10) Management & Compliance	Full support for:		
	1) Group Policy		
	2) Azure AD / Intune integration		
	3) Enterprise State Roaming		
	4) Advanced update/ deployment controls (such as LTSC option if specified for stability)		

Particulars of Technology Specifications – Supply & Install Items		Response	Comments
C. Technology Specifications – Supply & Install Items			
V. Standard Software Specifications			
1. System Software and System Management Utilities: [Processing unit type 1]:			
1. Client (PC) Operating System Specifications			
Criteria	Specification		
11) Virtualization & Remote Access	Full support for:		
	1) Hyper-V		
	2) Remote Desktop (Host & Client)		
	3) DirectAccess (if applicable)		
12) Language Localization &	English (Kenya) with full multilingual support. Must support Swahili/English government environments.		
13) Warranty Support &	Manufacturer warranty for the license term:		
	1) Software Assurance included for updates, technical support, and version upgrades during the contract period.		
	2) Bidder to provide installation, activation, and initial configuration support.		
14) Compatibility	1) Compatible with latest hardware (TPM 2.0, Secure Boot compliant devices).		
	2) Must support domain joining and government network infrastructure.		
15) Delivery & Installation	1) Licenses supplied with official Microsoft media/ documentation (or download rights)		
	2) Bidder responsible for supply and activation		
16) Compliance & Certification	1) Genuine Microsoft product with proof of authenticity (COA, VLSC access, or equivalent)		
	2) Bidder must be Microsoft Authorized Partner/Reseller		
17) Additional Requirements	Latest security patches and feature updates rights.		
	Option for subscription (E3/E5) or perpetual where available		
	Bidder to quote for any required base Pro licenses if not existing		
18) Agreement Term:	3-year term renewable annually		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
2. General-Purpose Software: [Office Productivity Software]:			
2. Office Productivity Software Specifications			
Criteria	Specification		
1) Brand:	Microsoft 365 Enterprise subscription services		
2) Edition:	1) Latest available version. Preferred: Microsoft 365 E3 (or higher) 2) Per user subscription plan		
3) Licensing Model:	1) Volume Licensing/ Enterprise Agreement (EA) Licenses 2) Volume pricing support 3) Must support annual commitment with true-up/true-down flexibility 4) Must be assignable to named users.		
4) Quantity:	100 user licenses (minimum) Bidder to quote for exactly 100 users with option for additional users during contract period		
5) Subscription Type & Duration:	1) Annual subscription (12 months) 2) renewable for up to 3 years (with option for extension) 3) Must include Software Assurance (SA) equivalent benefits		
Core Applications:	1) Full desktop, web, and mobile versions of: Word, Excel, PowerPoint, Outlook, OneNote, Access (PC only), Publisher (PC only). 2) Latest perpetual-equivalent features via Microsoft 365 Apps for enterprise.		
Collaboration and Communication:	1) Microsoft Teams (full features: chat, meetings, calls, webinars, channels) 2) SharePoint 3) OneDrive for Business 4) Exchange Online		
Cloud Storage:	1) Minimum 1 TB OneDrive per user 2) additional SharePoint storage (scalable) 3) Tenant-level storage pool as per Microsoft standard		
Email Productivity:	1) Exchange Online Plan with minimum 100 GB mailbox per user with archive 2) Full Outlook desktop/ client support		
Security and Compliance:	Baseline: 1) Azure Active Directory (Entra ID) P1 2) Basic threat protection		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
2. General-Purpose Software: [Office Productivity Software]:			
2. Office Productivity Software Specifications			
Criteria	Specification		
	3) Data loss prevention (DLP)		
	4) eDiscovery		
	5) Retention policies.		
	6) Bidder to specify exact plan (E3 recommended minimum)		
Device Limits:	Support for up to 5 PCs, 5 tablets, and 5 mobile devices per user		
Deployment and Activation:	1) Cloud-based activation with hybrid support		
	2) Bidder to provide deployment assistance, activation keys/ Guidance, and initial configuration support		
Installation and Configuration Services:	Bidder shall include initial user training (at least 4 hours) and administrator training		
Support and Maintenance:	Response time:		
	1) Bidder to provide local (Kenya-based) technical support during contract period for license management, activation, and troubleshooting		
	2) Critical issues within 2 hours; others within 8 business hours		
Updates and Upgrades	1) Automatic updates to latest versions/ features during subscription term		
	2) All security patches and feature updates included at no extra cost		
Compliance and Certification:	1) Must be genuine Microsoft product with valid Certificate of Authenticity/ Volume License documentation.		
	2) Bidder must be Microsoft Authorized Partner / CSP / EA Reseller (proof required)		
	3) Compliance with Kenyan data protection laws and Microsoft SLA (99.9% uptime)		
Warranty / Guarantee:	1) Full manufacturer warranty for the subscription period		
	2) Bidder guarantees license validity and functionality for the entire contract term		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
3. Database Software and Development Tools: [Database Engine Software]:			
3. Database Engine Software Specifications			
Criteria	Specification		
1) Brand and Version:	Microsoft SQL Server 2022 or 2025 Enterprise Edition (latest generally available version), 64-bit		
2) Edition:	Enterprise Edition (full feature set):		
	1) For government agency production use		
	2) High availability,		
	3) Advanced security,		
	4) Performance,		
	5) Scalability,		
	6) Always On,		
3) Licensing Model:	Core-based licensing. Licenses must cover all physical cores on the server		
4) Quantity of Licenses:	Sufficient core licenses to cover the full 32 physical cores of the Dell PowerEdge R770 server (16 x 2-core packs). Minimum licensing rules per Microsoft policy must be strictly followed.		
5) License Type and Validity:	Perpetual license with:		
	1) Software Assurance (SA) or equivalent subscription		
	2) At least 3 years from date of supply/ installation		
	3) Must include upgrade rights and support.		
6) Language:	English (International)		
7) Installation and Media:	Full installation media (DVD/ISO) and:		
	1) License Keys Provided		
	2) Must Support Installation On Windows Server OS		
	3) Compatible With The Dell Poweredge R770		
8) Compliance and Authenticity:	Genuine Microsoft product with Certificate of Authenticity (COA) or equivalent proof:		
	1) Must be sourced from authorized Microsoft Volume Licensing channel/ partner		
	2) Bidder to provide Microsoft Partner verification		
9) Compatibility:	Fully compatible with Dell PowerEdge R770 hardware and target Windows Server OS:		
	1) Must support virtualization and high-availability configurations		
10) Features:	Requirements:		

Particulars of Technology Specifications – Supply & Install Items		Response	Comments
C. Technology Specifications – Supply & Install Items			
V. Standard Software Specifications			
3. Database Software and Development Tools: [Database Engine Software]:			
3. Database Engine Software Specifications			
Criteria	Specification		
	1) Unlimited virtualization rights with SA (for Enterprise)		
	2) Advanced security (Transparent Data Encryption)		
	3) Always encrypted		
	4) Dynamic data masking		
	5) High availability/ disaster recovery (always on availability groups, failover clustering)		
	6) Performance & scalability features suitable for government databases		
	7) Full support for reporting		
	8) Analytics		
	9) Integration services		
11) Warranty and Support:	Minimum 3 years:		
	1) Software Assurance / Premier Support Or Equivalent		
	2) Microsoft Authorized Partner		
	3) Including Updates, Patches, And Technical Support		
12) Documentation:	Full set of official Microsoft documentation, installation guides, licensing documentation, and compliance certificates to be supplied		
13) Installation Services:	Bidder to supply, install, configure, and test the SQL Server instance on the provided Dell PE R770 server, including basic optimization for 32-core environment		
14) Training:	Provide training for at least 3-5 agency IT staff on administration, management, and basic maintenance (duration and scope to be proposed).		
15) Compliance with Standards:	Must fully comply with Microsoft licensing terms and government data security requirements (including data sovereignty).		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
4. Business Application Software: [ERP]:			
4. Enterprise Resource Planning (ERP) System Specifications			
Criteria	Specification		
1) Quantity:	One (1)		
2) Brand & Version:	Branded (latest release)		
3) Modules/ Functions:	Accommodate the 29 modules/ business functions (to be activated incrementally)		
4) Core Modules:	List the comprehensive suite of core modules and match the KESRETI modules covered e.g. core financials, operations, HR/ Payroll, CRM, production/distribution, analytics/ reporting, etc. and research/ training-specific extensions		
5) Inbuilt/ Native Extensions:	List the comprehensive suite of in-built/ native extensions and match the KESRETI modules covered e.g. end-to-end performance management, research/ training-specific extensions, etc.		
6) Third-party Application:	List the comprehensive suite of 3 rd party applications and match the KESRETI modules covered e.g. LLM Wiki, etc.		
7) Number of Users	Up to 200 named users (50 concurrent; mix of full-access and limited/ team-member user licenses).		
8) Licensing Options - Cloud (SaaS)	Subscription-based: Per-user annual fees and base platform fee (if applicable). List for all native, extensions and 3 rd party applications separately		
9) Licensing Options - On-Premises / Perpetual	One-time upfront license fee per user and annual maintenance/ support. List for all native, extensions and 3 rd party applications separately		
10) Licensing Options - Hybrid	Combination of on-prem core with cloud extensions; per-user or enterprise agreement models. List for all native, extensions and 3 rd party applications separately		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
4. Business Application Software: [GIS]:			
5. Geographic Information System (GIS) Specifications			
Criteria	Specification		
1) Software Platform:	ArcGIS Pro (latest version) for desktop clients or QGIS (open source)		
	Provide support for ArcGIS Enterprise (or QGIS equivalent if applicable) including:		
	1) ArcGIS GIS Server		
	2) Portal for ArcGIS		
	3) ArcGIS Data Store		
	4) ArcGIS Image Server		
2) Licensing Quantity:	One (1) ArcGIS Pro user license (or QGIS open source)		
3) Licensing Model:	Enterprise Agreement (EA) or equivalent (or QGIS equivalent if applicable) with:		
	1) Unlimited/ floating licenses for core components (Server, Portal, Pro)		
	2) Suitable for organizational deployment		
	3) Must include maintenance, upgrades, and technical support for the contract period (minimum 3 years)		
	4) Perpetual or subscription options acceptable (or QGIS equivalent if applicable)		
4) Deployment Architecture:	Scalable enterprise deployment (or QGIS equivalent if applicable):		
	1) Supporting high availability (HA) configuration		
	2) Single-machine or multi-machine		
	3) Base deployment and additional roles		
	4) Support for on-premises		
	5) Virtualized or hybrid environment		
	6) Must comply with Esri best practices for production use		
5) Operating System	Microsoft Windows Server 2022/ 2025 Standard (64-bit):		
	1) latest service packs tested by Esri		
	2) Linux options for specific components if proposed and certified		
6) Database / Geodatabase	Enterprise Geodatabase support for:		
	1) Microsoft SQL Server 2022 or 2025 Enterprise Edition		
	2) PostgreSQL		
	3) Must support versioning, replication, and multi-user editing		
	4) ArcGIS Data Store (relational, tile cache, spatiotemporal) required		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
4. Business Application Software: [GIS]:			
5. Geographic Information System (GIS) Specifications			
Criteria	Specification		
7) Hardware Provided by KESRETI	ArcGIS Pro (latest version) for desktop clients (or QGIS equivalent if applicable) must be compatible with Windows Enterprise virtual guest host (Hyper V) on Dell PowerEdge R770 with NVIDIA L40S 48GB on full DDA passthrough and remote desktop access		
8) Client Access	1) ArcGIS Pro (or QGIS equivalent if applicable)		
	2) ArcGIS Web appbuilder / Experience Builder (or QGIS equivalent if applicable)		
	3) ArcGIS Dashboards (or QGIS equivalent if applicable)		
	4) ArcGIS Field Maps (or QGIS equivalent if applicable)		
	5) Survey123 (or QGIS equivalent if applicable)		
	6) Mobile apps (or QGIS equivalent if applicable)		
	7) Web access via Portal for ArcGIS (or QGIS equivalent if applicable)		
9) Core Functionality	1) Data creation, editing, management, and sharing		
	2) Advanced spatial analysis, geoprocessing, 3D visualization		
	3) Web mapping, publishing of map/ image/ feature services		
	4) Role-based access, authentication (Active Directory, SAML, OAuth)		
	5) Integration with external systems (such as via REST APIs, GeoEvent Server)		
10) Performance & Scalability	System must support:		
	1) Concurrent users with acceptable response times (< 2-5 seconds for typical operations)		
	2) Load balancing and clustering for scalability		
	3) Bidder to provide performance benchmarks or sizing calculations		
11) Data Standards & Interoperability	Full support for:		
	1) Kenyan geospatial standards (such as KENYA SDI)		
	2) Open Geospatial Consortium (OGC) standards (WMS, WFS, WMTS, etc.)		
	3) Common formats (Shapefile, GeoJSON, Raster, etc.)		
	4) Coordinate systems including UTM, WGS84		
12) Security & Compliance	1) Compliance with: Kenya Data Protection Act, government IT security policies, etc.		
	2) Features: encryption, audit logs, secure services		
	3) Bidder must propose secure configuration and hardening guidelines		
13) Training & Capacity Building	Comprehensive training for administrators (System Admin, Publisher) and end-users (minimum 5-10 persons). Includes on-site/ off-site sessions, documentation, and knowledge transfer.		
14) Installation, Configuration and Commissioning	By certified Esri personnel or authorized partner (or QGIS equivalent if applicable):		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
4. Business Application Software: [GIS]:			
5. Geographic Information System (GIS) Specifications			
Criteria	Specification		
	1) Supply		
	2) Installation		
	3) Configuration		
	4) Customization (if required)		
	5) Testing		
	6) Commissioning		
	7) Migration support		
15) Warranty & Support	1) Minimum 12 months comprehensive warranty post-commissioning, followed by 24/7 support for critical issues		
	2) 3-year Annual Technical Support (ATS) contract renewable annually		
	3) Local authorized Esri partner presence in Kenya mandatory		
16) Documentation	All user manuals, admin guides, as-built diagrams, configuration files, and source code for any custom developments in English.		
17) Acceptance Criteria	Successful Site Acceptance Test (SAT). System must pass performance, functionality, security, and integration tests as defined in the tender.		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
4. Business Application Software: [CAD]:			
6. Computer Aided Design (CAD) Software Specifications			
Criteria	Specification		
1) Brand and Version:	Branded, latest stable version of industry-standard professional CAD software (such as AutoCAD, equivalent or better) with:		
	1) Full 2D drafting		
	2) 3D modeling		
	3) Rendering		
	4) BIM capabilities		
2) License Type:	1) Network (concurrent) or named user licenses		
	2) Perpetual (preferred) or subscription licenses or opensource		
	3) Must support multi-user environment with license management server		
3) License Quantity:	One (1) Pro user license		
4) Supported Platforms:	1) Compatible with latest Microsoft Windows 11 Enterprise (64-bit) and Windows server 2025 standard		
	2) Must include mobile viewer apps		
5) Key Functions:	Requirements:		
	1) 2D/3D drafting		
	2) Parametric modeling		
	3) Assembly design		
	4) Surface/ solid modeling		
	5) Import/export of standard formats (DWG, DXF, DGN, STEP, IGES, STL, IFC, PDF, etc.)		
	6) Rendering, visualization		
	7) Animation and clash detection		
	8) Customization via APIs, scripting (such as AutoLISP, .NET, Python)		
	9) Collaboration tools		
	10) Cloud Integration		
	11) Version Control		
	12) Compliance with industry standards (ISO, ANSI, etc.)		
6) Hardware Provided by KESRETI:	The CAD software version for desktop clients must be compatible with Windows Enterprise virtual guest host (Hyper V) on Dell PowerEdge R770 with NVIDIA L40S 48GB on full DDA passthrough and remote desktop access		
7) Performance Requirements:	1) Software must handle large assemblies (10,000+ parts) without significant lag		
	2) Workstations must achieve certified benchmark performance for the proposed CAD software		
	3) Support for multi-threading and GPU acceleration		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
4. Business Application Software: [CAD]:			
6. Computer Aided Design (CAD) Software Specifications			
Criteria	Specification		
8) Installation, Configuration & Integration	Supplier to supply, install, configure, and integrate on-site including license server setup, user profiles, templates, and integration with existing systems (such as document management, BIM servers). Testing and commissioning required.		
9) Training	Comprehensive training: Minimum 5 days hands-on for administrators and end-users. Training materials, manuals, and certification support. Post-training support for 3 months.		
10) Documentation	1) Full set of user manuals, administrator guides, installation guides, as-built drawings, and license certificates in English (hard + soft copies).		
11) Warranty & Support	2) Minimum 12 months comprehensive warranty on software updates/ upgrades.		
	3) Local technical support with SLA (response within 4 hours, resolution within 24-48 hours)		
	4) 3-year support contract renewable annually for the first three years		
12) Compliance & Certification	Software must be genuine with valid certificates. Supplier must provide OEM authorization letter and proof of local support capability in Kenya		
13) Security & Data Management	Support for user access control, encryption, audit trails. Compatibility with institutional IT security policies		
14) Acceptance Criteria	Successful installation, configuration, performance testing, training completion, and sign-off by KESRETI. 30-day stabilization period post-commissioning		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
4. Business Application Software: [SAS]:			
7. Statistical Analysis System (SAS) Specifications			
Criteria	Specification		
1) Brand:	GenStat (VSNi) and STATA (StataCorp)		
2) Software Packages:	Latest stable commercial versions of GenStat and STATA:		
	1) Must include full professional/enterprise editions		
	2) Provide support for:		
	a. advanced statistical analysis		
	b. REML/ mixed models		
	c. experimental design		
	d. graphics		
	e. data management		
	f. perpetual or multi-year licenses		
3) License Quantity:	One (1) Pro User		
4) Licensing Model:	1) Named user / concurrent / institutional licenses:		
	2) Must include all modules for full functionality		
	3) Licenses transferable to KESRETI with certificate of authenticity (COA)		
	4) Support for volume/ academic/ government licensing preferred		
5) Operating System Compatibility:	1) Windows 10/11 (64-bit) primary		
6)	2) Full compatibility with Windows Server 2025 standard for network deployment		
7)	3) Optional native support for Linux		
8)	4) Must run on standard 64-bit 64 processors (Intel)		
9) Hardware Provided by KESRETI:	The GenStat and STATA software version for desktop clients must be compatible with Windows Enterprise virtual guest host (Hyper V) on Dell PowerEdge R770 with NVIDIA L40S 48GB on full DDA passthrough and remote desktop access		
10) Performance and Scalability	1) Support for large datasets (STATA: up to billions of observations in MP edition; GenStat equivalent)		
	2) Multi-core/ parallel processing support (STATA/ MP preferred)		
	3) Efficient handling of ANOVA, REML, time-series, multivariate, and spatial statistics		

Particulars of Technology Specifications – Supply & Install Items		Response	Comments
C. Technology Specifications – Supply & Install Items			
V. Standard Software Specifications			
4. Business Application Software: [SAS]:			
7. Statistical Analysis System (SAS) Specifications			
Criteria	Specification		
11) Key Functional Requirements:	Comprehensive statistical tools:		
	1) descriptive stats, regression, ANOVA, GLM, mixed models, survival analysis, time series, multivariate methods		
	2) Experimental design (especially strong in GenStat)		
	3) Data import/ export (CSV, Excel, SPSS, databases, text)		
	4) High-quality graphics and visualization (publication-ready)		
	5) Scripting/ programming language for automation (Stata do-files, GenStat procedures)		
	6) Reporting and export output (PDF, Word, HTML, LaTeX)		
12) Installation & Deployment	Full installation, configuration, and network licensing setup on specified workstations/ servers. Integration with existing Windows domain/ network. Silent/ automated deployment options		
13) Training:	On-site training for at least 10-20 users (administrators and end-users) covering both packages (minimum 3-5 days)		
14) Documentation:	Comprehensive user manuals, online help, and example datasets		
15) Warranty:	1) Minimum 12 months comprehensive warranty (software updates, patches, bug fixes)		
	2) Manufacturer/ agent authorization letter required		
16) Support:	Technical support (email/ telephone) during warranty and optional post-warranty maintenance		
17) Compliance:	Compatible with Kenyan government IT standards		
18) Security:	1) No backdoors or telemetry that compromises data security		
	2) Must support data encryption and user access controls where applicable		
19) Delivery:	1) Supply media (USB/ DVD where applicable) or secure download		
	2) Attach product datasheets, sample licenses, and proof of authorization.		
20) Acceptance:	Successful installation, testing with sample datasets, user acceptance testing (UAT), and sign-off required		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
4. Business Application Software: [VIES]:			
8. Video and Image Editing Software (VIES) Specifications			
Criteria	Specification		
1) Brand:	Professional-grade, non-linear video and image editing software (equivalent to Adobe Premiere Pro with Photoshop, DaVinci Resolve, etc.)		
2) Version:	Must be a single integrated suite or tightly integrated pair of applications		
3) License Quantity:	One (1) Pro User (or opensource equivalent if applicable)		
4) Licensing Mode:	1) Perpetual license or subscription or opensource		
	2) At least 12 months support/updates included		
	3) Must include full commercial use rights, no watermarking		
	4) Provide proof of authenticity and licensing model		
5) Supported Platforms:	Must be fully compatible with Windows 10/ 11 (64-bit)		
6) Video Editing:	Core Features:		
	1) Multi-track timeline editing (unlimited tracks)		
	2) Trim, cut, splice, ripple, slip, slide, and three/four-point editing		
	3) Multi-camera editing (minimum 4+ angles)		
	4) Proxy editing workflow for high-resolution footage		
7) Video Effects and Transitions:	1) Comprehensive library of built-in video transitions, effects, titles, motion graphics, keyframing, and chroma keying (green screen)		
	2) Support for third-party plugins (such as OpenFX)		
8) Color Correction and Grading:	Professional color correction tools, scopes (waveform, vectorscope, histogram), LUT support, HDR grading, and primary/secondary color correction.		
9) Audio Editing:	Multi-track audio mixing, noise reduction, EQ, compression, voice enhancement, and synchronization tools.		
10) Export and Encoding:	1) Support for H.264, H.265/ HEVC, ProRes, DNxHR, and other broadcast codecs. Export to 4K, 8K, and various formats (MP4, MOV, MXF)		
	2) Hardware-accelerated encoding		
11) Image Editing:	Core Features:		
	1) Layer-based editing		
	2) Masks and channels		
	3) Advanced selection tools		
	4) Healing/ clone tools		
	5) Content-aware fill		
	6) Brushes, filters, and non-destructive editing		
12) Image Processing:	Support for RAW files, CMYK, 16/ 32-bit color depth, batch processing, and high dynamic range (HDR) imaging.		

Particulars of Technology Specifications – Supply & Install Items		Response	Comments
C. Technology Specifications – Supply & Install Items			
V. Standard Software Specifications			
4. Business Application Software: [VIES]:			
8. Video and Image Editing Software (VIES) Specifications			
Criteria	Specification		
13) File Format Support:	Wide range including PSD, TIFF, PNG, JPEG, EXR, DPX, and all major video codecs/ containers.		
14) Performance and Hardware Acceleration:	GPU acceleration (NVIDIA CUDA/ Intel). Optimized for 4K/ 6K/ 8K timelines		
15) Hardware Provided by KESRETI:	The software version for desktop clients must be compatible with Windows Enterprise virtual guest host (Hyper V) on Dell PowerEdge R770 with NVIDIA L40S 48GB on full DDA passthrough and remote desktop access		
16) Integration and Interoperability:	Seamless integration between video and image components. Support for import/ export with After Effects, Audition, or equivalent. XML/AAF/EDL interchange		
17) Collaboration and Workflow:	1) Project sharing		
	2) Version control		
	3) Team collaboration features		
	4) Cloud sync (optional but preferred)		
18) User Interface and Usability:	Intuitive, customizable workspace with keyboard shortcuts, tool presets, and comprehensive documentation/tutorials		
19) Training and Support:	1) Manufacturer-provided user manuals, online resources		
	2) Minimum 2 days on-site training for up to 5 users		
	3) Local technical support		
20) Warranty and Support:	1) Warranty for updates, patches, and bug fixes.		
	2) Minimum 12 months built-in support		
	3) 3-year support contract renewal annually		
21) Compliance and Security	1) Must comply with Kenyan data protection laws		
	2) No unauthorized data collection/ telemetry that compromises institutional data		
22) Demonstration & Evaluation	Bidder must provide a working demonstration of key features on proposed hardware during user acceptance testing		

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
V. Standard Software Specifications			
5. Networking and Communications Software: [Not Included]:			
Criteria	Specification		
1)			

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
VI. Consumables			
1. Printer Ink/ Toner: [Not Included]:			
Criteria	Specification		
2)			

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
VI. Consumables			
2. Uninterruptible Power Supply (UPS) Batteries: [Not Included]:			
Criteria	Specification		
1)			

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
VII. Other Non-IT Goods Specifications			
1. Workstation Desks: [Not Included]:			
Criteria	Specification		
1)			

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
VII. Other Non-IT Goods Specifications			
1. Photocopiers: [Not Included]:			
<u>Criteria</u>	<u>Specification</u>		
1)			

Particulars of Technology Specifications – Supply& Install Items		Response	Comments
C. Technology Specifications – Supply& Install Items			
VII. Other Non-IT Goods Specifications			
1. Specialized Mechanical Systems: [Not Included]:			
<u>Criteria</u>	<u>Specification</u>		
1)			

D. Testing and Quality Assurance Requirements

i) Inspections

1. Factory Inspections: *[Not Applicable]*

2. Inspections following delivery: *[See table below]*

Delivery Inspections		
Item	Criteria	Methods
1) Outer Packaging (All Hardware and Software)	Intact, no visible damage, tampering, or exposure to elements (such as no dents, tears, water marks, or broken seals)	Visual inspection: Examine the exterior of boxes for signs of mishandling; check shipping labels against purchase order for correct delivery details
2) Software Media or Installation Kits	Correct version/edition; packaging intact, no scratches on discs if physical media	Visual and label check: Inspect packaging seals; verify product keys or licenses against order; insert media into a test device to confirm readability if possible
3) License Documentation	Authentic certificates, keys, or activation codes provided; matches purchased quantity and type	Documentation verification: Compare license details with invoice; check for holograms or security features to ensure genuineness
4) ERP Software	<ul style="list-style-type: none"> - Valid perpetual/ subscription license with correct quantity and activation. - Full functionality per technical specs (modules, features, integration capabilities). - Installation/configuration completed; user access and data import/migration successful. - Documentation (user manuals, admin guides, source code if required) provided. - No critical bugs; performance meets SLAs (such as response time, concurrency, etc.). 	<ul style="list-style-type: none"> - License verification (activation keys, certificates). - Functional testing/ demo by supplier with KESRETI users. - Review of installation reports and system logs. - Security/ vulnerability scan and user acceptance testing (UAT).
5) GIS Software	<ul style="list-style-type: none"> - Valid license and compatibility with specified OS/ hardware. - Core features operational (mapping, spatial analysis, layering, data import/export). - Integration with existing systems (such as databases). - Complete documentation and training materials. 	<ul style="list-style-type: none"> - License check and installation verification. - Sample spatial data processing and visualization tests. - Performance benchmarking (such as rendering large datasets). - Demo and sign-off on compliance with specs.
6) CAD Software	<ul style="list-style-type: none"> - Authentic license for specified version/edition. - Full 2D/3D design, rendering, and collaboration features working. - Compatibility with specified file formats and hardware. 	<ul style="list-style-type: none"> - License activation and entitlement check. - Test standard CAD workflows (drawing, modeling, export). - Benchmark rendering/performance tests. - Documentation review.

Delivery Inspections

Item	Criteria	Methods
	<ul style="list-style-type: none"> - User manuals and support resources delivered. 	
7) Statistical Analysis Software	<ul style="list-style-type: none"> - Valid license. - All statistical tools, modeling, and visualization functions operational. - Data import/export and scripting capabilities functional. - Meets performance specs for dataset sizes. 	<ul style="list-style-type: none"> - License verification. - Run sample statistical tests, regressions, and visualizations. - Performance tests on large datasets. - Review outputs against expected results.
8) Video Editing Software	<ul style="list-style-type: none"> - Valid license for specified version. - Editing, effects, rendering, and export features fully functional. - Hardware acceleration support (such as GPU compatibility). - Output quality and format support per specs. 	<ul style="list-style-type: none"> - License check. - Test editing workflow: import, timeline editing, effects, export. - Render benchmark tests. - Verify GPU acceleration if applicable.
9) NVIDIA L40S 48GB GPU (installed on existing Dell PE R770)	<ul style="list-style-type: none"> - Genuine NVIDIA L40S 48GB (verify model, serial, 48GB GDDR6 ECC memory). - Proper physical installation in compatible PCIe slot (double-width, power/ cooling compliant for R770). - Drivers installed; detected by server BIOS/ OS with full 48GB recognized. - Performance: CUDA cores, Tensor/ RT cores functional; power draw and thermal within specs (~350W TDP). - No hardware faults; stable under load. 	<ul style="list-style-type: none"> - Physical inspection and serial/ model verification against invoice. - Server BIOS/ UEFI check for detection. - Run NVIDIA-SMI, CUDA tests, benchmark tools (such as for AI/ graphics workloads). - Stress tests (stability, temperature, power). - Installation/ commissioning report review.

3. Pre-commissioning Tests

- 2.1 In addition to the Supplier's standard check-out and set-up tests, the Supplier (with the assistance of the KESRETI) must perform the following tests on the servers and its sub systems before Installation will be deemed to have occurred and the KESRETI will issue the Installation Certificate (s) (pursuant to GCC Clause 26 and related SCC clauses).

Pre-commissioning Tests		
Test	Test Conditions	Success Criteria
1. Delivery & Documentation Verification (All items):	<ul style="list-style-type: none"> - Visual/physical inspection upon receipt - Review of packing lists, certificates of conformity, licenses, manuals, and warranties 	<ul style="list-style-type: none"> - All items match specifications/ quantities - No damage - Valid licenses (perpetual/ subscription as specified) - Complete documentation provided
2. Installation Verification (Hardware/ Software):	<ul style="list-style-type: none"> - Supplier installs GPU in Dell R770 (appropriate PCIe slot) - Software installed on designated OS/ environment per specs 	<ul style="list-style-type: none"> - Secure mounting - Proper connections - No errors during install - System boots without hardware conflicts - Software installs cleanly with valid activation
3. Hardware Compatibility & Power-On Test (GPU):	<ul style="list-style-type: none"> - GPU installed in Dell PE R770 - Server powered on under normal load conditions - BIOS/UEFI checks 	<ul style="list-style-type: none"> - Server recognizes GPU (visible in Device Manager/ BIOS); - no thermal/power errors; - fans operate normally; - system stable for 30+ minutes.
4. Driver & Firmware Installation (GPU/ Software):	<ul style="list-style-type: none"> - Install latest compatible NVIDIA drivers/ CUDA (and any required software dependencies/ firmware updates 	<ul style="list-style-type: none"> - Drivers install without errors; - GPU tools (NVIDIA-SMI, etc.) confirm detection, specs (48GB, etc.), and status - Software dependencies resolved
5. Basic Functionality Test (All Software):	<ul style="list-style-type: none"> - Launch each application (ERP modules, GIS/ CAD tools, statistical packages, video editing suite) on target hardware/ environment 	<ul style="list-style-type: none"> - Applications open successfully - Core interfaces load - No crashes on startup - Basic navigation/ operations function
6. License & Access Verification (Software):	<ul style="list-style-type: none"> - Activate licenses - Test multi-user/ concurrent access if applicable 	<ul style="list-style-type: none"> - All licenses validate - No activation errors - Authorized users can access per agreed terms
7. Performance Benchmark Test (GPU and GPU-accelerated Software):	<ul style="list-style-type: none"> - Run standard benchmarks (CUDA tests, rendering in CAD/ video editing, statistical computations, etc.) with sample datasets. 	<ul style="list-style-type: none"> - GPU achieves expected performance (GFLOPS/ memory bandwidth per NVIDIA specs, etc.) - Accelerated tasks complete within acceptable timeframes - No throttling/ artifacts
8. Data Import/ Export and Compatibility Test (ERP, GIS, CAD, Statistical, Video):	<ul style="list-style-type: none"> - Import/ export sample files/ datasets (GIS layers, CAD models, statistical datasets, video files, etc.) between applications if integrated. 	<ul style="list-style-type: none"> - Successful import/ export without data loss/ corruption - Files render/ process correctly - Interoperability verified per specs

Pre-commissioning Tests

Test	Test Conditions	Success Criteria
9. Integration/ Interoperability Test (ERP/ GIS/ CAD with GPU if applicable):	<ul style="list-style-type: none">- Test integration points (ERP modules linking to GIS/ CAD)- GPU acceleration in rendering/ analysis	<ul style="list-style-type: none">- Data flows correctly between systems- GPU offloads tasks successfully (faster rendering/ analysis)- No integration errors
10. Stability & Stress Test (All):	<ul style="list-style-type: none">- Run applications/ GPU workloads for extended period (4-8 hours) under simulated load	<ul style="list-style-type: none">- No crashes, memory leaks, or instability- System temperature/ power within safe limits- Logs show no critical errors
11. Backup/ Restore & Security Check (Software):	<ul style="list-style-type: none">- Perform sample data backup and restore- verify basic security features (access controls, encryption if specified)	<ul style="list-style-type: none">- Data backs up/ restores intact- Security features function (user authentication works, etc.)
12. User Training Readiness Demo (All):	<ul style="list-style-type: none">- Supplier demonstrates key features to end-users	<ul style="list-style-type: none">- Users can perform basic operations post-demo- training materials provided and accepted

4. Operational Acceptance Tests

3.1 Pursuant to GCC Clause27 and related SCC clauses, the Procuring Entity (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 Sub systems meet all the requirements mandated for Operational Acceptance.

Operational Acceptance Tests		
Test	Test Conditions	Success Criteria
1. Software Installation & Configuration (All software: ERP, GIS, CAD, Statistical Analysis, Video Editing):	<ul style="list-style-type: none"> - Software installed on specified servers/ workstations. - Configuration per requirements (database setup, user roles, integrations, etc.) 	<ul style="list-style-type: none"> - All components install without errors - Services start successfully - No license activation issues - Configuration files/ logs confirm completion within agreed time (5-10 working days, etc.)
2. Functional Verification (All software):	<ul style="list-style-type: none"> - Run core modules/ workflows with sample/ test data:- * ERP: full transaction cycle * GIS: layering/ mapping * CAD: design/ render * Stats: analysis/ models * Video: import/ edit/ export 4K footage 	<ul style="list-style-type: none"> - All core functions perform as per technical specs/ manuals - Outputs match expected results - No crashes or unhandled errors
3. Performance and Load Testing (All software and GPU):	<ul style="list-style-type: none"> - Simulate concurrent users/ load:- * >50 for ERP * Render complex CAD/ GIS models * Process large statistical datasets * 4K multi-track video editing * GPU: benchmark CUDA/ OpenCL workloads like rendering/ AI inference - Run for defined duration (8-24 hours) 	<p>Response times within specs:</p> <ul style="list-style-type: none"> * <2-5s for queries * Throughput meets requirements * CPU/ GPU utilization stable (<80-90% sustained) * No degradation or failures * GPU achieves expected TFLOPS/ memory bandwidth
4. Compatibility & Integration (All software and GPU):	<ul style="list-style-type: none"> - Test on target OS/ hardware (including NVIDIA L40S 48GB on Dell PE R770) - Integrate with existing systems:- * ERP with accounting/ database * GIS/ CAD with other spatial tools - GPU drivers/ CUDA toolkit installed 	<ul style="list-style-type: none"> - Seamless operation with no conflicts - Successful data exchange/ integration - GPU recognized and accelerates compatible workloads (Tensor cores for stats/ ML, rendering for CAD/ video)
5. Security & Access Control (All software):	<ul style="list-style-type: none"> - User/ role-based access tests - Attempt unauthorized access - Basic vulnerability scan - Data encryption at rest/ transit 	<ul style="list-style-type: none"> - Access controls enforce permissions correctly - No critical vulnerabilities - Audit logs capture actions - Compliance with data protection requirements
6. Backup, Recovery & Reliability (All software and GPU system):	<ul style="list-style-type: none"> - Perform full/ incremental backups - Simulate failure (server restart, data corruption, etc.) and restore - Run stress for >72 hours 	<ul style="list-style-type: none"> - Successful backup/ restore with data integrity (100% recovery) - System uptime >99% during test period - GPU stable under load without thermal throttling or errors
7. Documentation and Training Validation	<ul style="list-style-type: none"> - Review supplied manuals, as-built docs, training materials 	<ul style="list-style-type: none"> - All documentation complete/ accurate - Trainees demonstrate proficiency in key operations

Operational Acceptance Tests

Test	Test Conditions	Success Criteria
(All software and GPU):	- Conduct end-user/ admin training sessions	- Training completion certificates issued
8. GPU-Specific Hardware/ Driver Stability (NVIDIA L40S 48GB on Dell PE R770):	- Install card, latest drivers/ CUDA - Run benchmarks (SPECviewperf, CUDA samples, ML workloads) - Monitor power/ thermal under sustained load	- Card detected in BIOS/ OS - Full 48GB VRAM accessible - Passes all stability tests (no crashes, artifacts, or ECC errors); - Temperatures/ power within NVIDIA/ Dell specs
9. Overall System Operational Readiness (Integrated solution):	- End-to-end operation in production-like environment for agreed period (5-14 days parallel run, etc.) - Monitor logs/alerts.	- System fully operational with no blocking issues - Meets all SLAs/ KPIs - Signed handover certificate

Note: The complexity of the Operational Acceptance Testing needed will vary in accordance with the complexity of the System being procured. For simpler Information Systems Operational Acceptance Testing may simply consist of requiring a specified period of trouble-free System or Sub system operation under normal operating conditions. For more complex Systems, Operational Acceptance testing will require extensive, clearly defined tests under either production or mock-production conditions.

E. Service Specifications–Recurrent Cost Items

i) Warranty Defect Repair

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

1) Warranty Defect Repair Service: *[same as post-warranty maintenance service - see specification below]*

ii) Technical Support

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

1) Post-Warranty Maintenance Services: *[see specification below]*

2) User support / hot line: *[see specification below]*

3) Technical Assistance: *[see specification below]*

SNo.	Criteria	Specification	Yes/ No	Comment
1.	New Software (awaiting supply by Tenderers):			
2.	Four (4) Software:	1) ERP; 2) GIS; 3) CAD; 5) GenStat & STATA; 4) Video Editing; GPU		
3.	Location:	1) KESRETI Head Office in Kibos, along Kisumu – Miwani road		
4.	Contract Duration:	3 Years (renewable annually), commencing from date of award of contract		
	Scope of Services: -			
5.	Warranty Period	- Comprehensive on-site warranty for all supplied software (ERP, GIS, CAD, Statistical Analysis, Video Editing) and NVIDIA L40S 48GB GPU for 12 months from date of Final Acceptance Certificate (FAC) / Go-Live. - Includes defect repair, patches, updates, and bug fixes at no extra cost.		
6.	Post-Warranty Technical Support (Recurrent)	- Provide Annual Technical Support / Maintenance Services for 3 years (renewable) post-warranty. - Coverage: 24/7 remote support with: * 8-hour on-site response for critical issues (P1), * 24-hour for major (P2). - Includes quarterly preventive maintenance visits.		
7.	Software License Maintenance & Updates	- Annual renewal of subscriptions/ licenses, including all major/ minor version upgrades, security patches, feature updates, and compatibility fixes for the full suite (ERP, GIS, CAD, Statistical Analysis, Video Editing). - Vendor must ensure latest stable versions.		
8.	GPU-Specific Support	- Technical support for NVIDIA L40S 48GB GPU installed on existing Dell PE R770: drivers/ firmware updates, compatibility validation with host server, performance optimization, and hardware fault diagnosis/ repair coordination with NVIDIA. - On-site replacement if defective within support period.		
9.	Response Time & Service Level Agreement (SLA)	- Critical (system down): * Response < 2 hours, * resolution < 4 hours (95% compliance).		

SNo.	Criteria	Specification	Yes/ No	Comment
		<ul style="list-style-type: none"> - High: <ul style="list-style-type: none"> * Response < 4 hours, * resolution < 24 hours. - Medium/Low: <ul style="list-style-type: none"> * Response < 8 hours, * resolution < 48 hours. - Penalties for SLA breaches (inform continuation of contract). - Monthly performance reports required. 		
10.	On-Site & Remote Support Personnel	<ul style="list-style-type: none"> - Dedicated certified engineers (minimum 2) with OEM certifications for the software suite and NVIDIA GPUs. Local presence in Kenya preferred. - Quarterly on-site visits for health checks, optimization, and training refreshers. 		
11.	Training & Knowledge Transfer	<ul style="list-style-type: none"> - Initial user/ admin training (at least 5 days) with 2 refresher sessions per year during support period. - Comprehensive documentation, user manuals, and knowledge transfer to procuring entity's IT team. 		
12.	Helpdesk & Monitoring	<ul style="list-style-type: none"> - 24/7 helpdesk (phone/ email/ ticketing portal) with proactive monitoring tools for software performance, GPU utilization, and system health. - Incident logging and resolution tracking. 		
13.	Spare Parts & Consumables (where applicable)	<ul style="list-style-type: none"> - Availability of critical spares (for GPU-related components) and any required licenses/ media within 96 hours. - Supplier to maintain minimum stock or fast-track procurement. 		
14.	Security & Compliance	<ul style="list-style-type: none"> - All updates/ patches must maintain or enhance security. - Compliance with Kenya data protection laws, PPRA requirements, and OEM best practices. - Vulnerability assessments and remediation as part of support. 		
15.	Reporting & Review	<ul style="list-style-type: none"> - Monthly/ Quarterly support performance reports (incidents, uptime, resolutions). - Annual review meetings to assess service and plan upgrades. 		
16.	Exit/ Transition Support	<ul style="list-style-type: none"> - At end of contract, provide data migration assistance, documentation, and knowledge transfer for seamless handover to new provider or in-house team. 		

iii) Requirements of the Supplier's Technical Team

3.1 The Supplier MUST provide a technical team to cover the Procuring Entity's anticipated Post-Operational Acceptance Technical Assistance Activities Requirements (such as modification of the Information System to comply with changing legislation and regulations) with the roles and skill levels that are specified below. The minimum expected quantities of inputs by the Supplier's technical support team are specified in the relevant System Inventory Tables for Recurrent Cost Items.

No	Particulars of Supplier's Technical Team	Yes/ No	Details
Requirements of the Supplier's Technical Team			
	The Supplier MUST maintain a technical team of the following roles and skill levels during the Supply and Installation Activities under the Contract:		
	1)System Analyst:		
	1. System Analyst (at least 1) 1.1. Education: Bachelor's degree in computer science, ICT, or Information Systems. 1.2. Certifications: CBAP, IREB, or equivalent systems analysis certification; domain-specific (such as Microsoft or database analysis tools) as advantage. 1.3. Years' experience: Minimum 7 years in systems analysis and design. 1.4. Demonstrated successful experience: Conducted requirements gathering, gap analysis, functional/non-functional design, and documentation for at least 3 enterprise server-based systems (involving domain controllers, databases, storage, and web tiers) in government or large organizational settings. Proven deliverables include detailed design documents and successful translation into configured/customized solutions.		
	2)Database Expert:		
	2. Database Expert (at least 1) 2.1. Education: Bachelor's degree in computer science, ICT, or related. 2.2. Certifications: Database admin (SQL Server, Oracle, PostgreSQL), MCDBA or modern cloud/ DBA equivalents, integration (API/ ETL), and cybersecurity (CEH, CompTIA Security+, ISO 27001, etc.). 2.3. Years' experience: Minimum 5 years in database administration and design, database setup, data migration, system integration (ERP GIS others), and security hardening. 2.4. Demonstrated successful experience: Designed, installed, configured, optimized, and migrated databases for at least 3 similar multi-tier server environments (database/application servers with storage integration). Experience with high-availability setups, backup/recovery, and performance tuning in production government systems.		
	3)Programming Expert:		
	1. Programming Expert (at least 1) 1.1. Education: Bachelor's degree in Computer Science, ICT, Software Engineering, or related. 1.2. Certifications: Vendor-specific (such as Microsoft .NET, Java, or web technologies for the application/web server stack); relevant programming or development certifications. 1.3. Years' experience: Minimum 7 years in software development and customization. 1.4. Demonstrated successful experience: Developed/customized applications or integrations for at least 3 enterprise systems involving web servers, application servers, and backend		

No	Particulars of Supplier's Technical Team	Yes/ No	Details
	databases. Must cover configuration/customization as per user requirements, with successful commissioning/handover.		
	4) System Administration:		
	<p>2. System Administration / Security Expert (at least 1)</p> <p>2.1. Education: Bachelor's degree in Computer Science, ICT, or related.</p> <p>2.2. Certifications: MCSA/ MCSE (Windows Server/ Active Directory); CompTIA Security+, CISSP, or CEH; ITIL for admin processes.</p> <p>2.3. Years' experience: Minimum 7 years in system administration and security.</p> <p>2.4. Demonstrated successful experience: Implemented and administered domain controllers (Active Directory), secured multi-server environments (including storage and web servers), performed hardening, access control, and compliance audits for at least 3 similar projects. Critical for Kenyan government: experience with data protection, cybersecurity standards, and integration in public-sector networks.</p>		
	5) Network and Communications Expert:		
	<p>3. Network and Communications Expert (at least 1)</p> <p>3.1. Education: Bachelor's degree in ICT, Telecommunications, or related.</p> <p>3.2. Certifications: CCNA (mandatory); CCNP or equivalent as advantage.</p> <p>3.3. Years' experience: Minimum 5 years in network design and implementation.</p> <p>3.4. Demonstrated successful experience: Designed, implemented, and troubleshot networks for server infrastructures (VLANs, firewalls, domain integration, web access, storage networking) in at least 3 similar projects. Experience with government networks, bandwidth optimization, and secure communications is essential.</p>		
	6) ERP Specialist		
	<p>4. ERP Specialist / Lead Functional Consultant (1-2 persons)</p> <p>4.1. Bachelor's degree in ICT, Finance, Accounting, or related.</p> <p>4.2. Certified in the proposed ERP system (e.g., Microsoft Dynamics 365, SAP, Oracle, or equivalent) with module-specific expertise (Finance, HR, Procurement, etc.).</p> <p>4.3. Minimum 7 years' experience in ERP implementation, customization, data migration, and integration.</p>		
	7) GIS Specialist		
	<p>5. GIS Specialist (1 person)</p> <p>5.1. Bachelor's/Master's in Geospatial Science, GIS, Geomatics, or related ICT field.</p> <p>5.2. Professional certifications: ESRI ArcGIS, QGIS, or equivalent for the proposed GIS software.</p> <p>5.3. Minimum 5 years' experience in GIS software supply, installation, customization, data modeling, and integration with ERP/other systems.</p> <p>5.4. Experience with spatial databases, mapping, and government land/cadastral projects preferred.</p>		
	8) CAD Specialist		
	<p>6. CAD Specialist (1 person)</p> <p>6.1. Degree in Engineering, Architecture, ICT, or related with CAD focus.</p> <p>6.2. Certifications in proposed CAD software (e.g., AutoCAD, Revit, or equivalent).</p> <p>6.3. Minimum 5 years' experience in CAD software deployment, customization, 2D/3D modeling, and integration in technical/engineering environments.</p>		

No	Particulars of Supplier's Technical Team	Yes/ No	Details
9) Statistical Analysis Specialist			
	<p>7. Statistical Analysis Specialist (1 person)</p> <p>7.1. Degree in Statistics, Data Science, Mathematics, or ICT with analytics focus.</p> <p>7.2. Certifications in proposed tools (SPSS, R, SAS, Stata, Python/R for stats, or equivalent).</p> <p>7.3. Minimum 5 years' experience in statistical software supply, installation, scripting, data analysis pipelines, and integration/ reporting.</p>		
10) Video Editing / Multimedia Specialist			
	<p>8. Video Editing / Multimedia Specialist (1 person)</p> <p>8.1. Degree in Multimedia, ICT, Media Studies, or related.</p> <p>8.2. Certifications in proposed video editing software (e.g., Adobe Premiere Pro, DaVinci Resolve, Final Cut, or equivalent).</p> <p>8.3. Minimum 5 years' experience in professional video editing software deployment, workflow optimization, hardware acceleration (GPU), and training.</p>		
11) Hardware / Systems Engineer – GPU & Server Specialist			
	<p>9. Degree in Computer Engineering, ICT, or related.</p> <p>9.1. NVIDIA certifications (e.g., NVIDIA Certified Professional or equivalent for L40S), Dell EMC server certifications (PowerEdge).</p> <p>9.2. Minimum 5 years' experience in server hardware, GPU installation/configuration (data center/AI/ML workloads), drivers, CUDA, and compatibility testing.</p> <p>9.3. Specific experience installing NVIDIA L40S (or similar high-end GPUs) on Dell PowerEdge servers (R770 compatible; supports up to 2x L40S 48GB, 350W double-width).</p> <p>9.4. Knowledge of power/cooling requirements, PCIe slots, BIOS/firmware updates, and performance benchmarking.</p>		
12) Integration & Security Specialist			
	<p>10. Integration & Security Specialist (1 person)</p> <p>10.1. Degree in ICT/ Computer Science, or related field.</p> <p>10.2. Certifications: Database admin (SQL Server, Oracle, PostgreSQL), integration (API/ ETL), and cybersecurity (CEH, CompTIA Security+, ISO 27001, etc.).</p> <p>10.3. Minimum 6–8 years' experience in database setup, data migration, system integration (ERP GIS others), and security hardening.</p>		
13) Training & Change Management Specialist			
	<p>11. Degree in Education, ICT, or related field.</p> <p>11.1. Experience in user training for complex software suites.</p> <p>11.2. Minimum 5 years' relevant experience with proven training materials and post-training support.</p>		
14) Additional Team/ Support Requirements			
	<p>12. Support Team: Post-go-live technical support desk (response times: 2–4 hours critical, 24 hours others).</p> <p>12.1. Backup Personnel: Named deputies for key roles.</p> <p>12.2. OEM/ Partner Involvement: Manufacturer-authorized engineers for NVIDIA GPU, ERP vendor, GIS/ CAD vendors (attach authorization letters).</p>		

No	Particulars of Supplier's Technical Team	Yes/ No	Details
	12.3. Evaluation Weighting (Typical): Qualifications & certifications (30-40%), Relevant experience & similar projects (40-50%), Availability & CV quality (10-20%).		
	The firms (if any) that provided consulting services for the contract being tendered for are: NOT APPLICABLE		
	The firms (if any) that provided consulting services for the contract being tendered for are: NOT APPLICABLE		

Note: The Technical Assistance Team specification may be used to develop tender prices for technical support Recurrent Costs. These may be included in the main Contract or be subject to separate contracts. In either regard, to obtain meaningful and comparable tender prices, the Procuring Entity will need to specify the roles of the technical support team members in this section and indicate the quantities of the corresponding inputs in the Systems Inventory Tables for Recurrent Cost items.

F. Implementation Schedule

Notes on preparing the Implementation Schedule *the Implementation Schedule summarize when and where Installation, and Operational Acceptance should take place for all Sub systems and/ or major components of the System, and for the overall System it self—as well as any other major Contract milestones.*

Note: *The delivery date is not presented in the Implementation Schedule. Under Incoterms 2010 for CIP, Delivery refers to the date when the Supplier delivers the goods to the first carrier at the port of embarkation, not to the arrival of the goods at the destination site. Delivery (shipment) date therefore varies according to the country of origin of the goods and the Supplier's chosen method of transport.*

The target dates need to be realistic and achievable in light of the capacity of both the average Supplier and the Procuring Entity to carry out their respective contract obligations. Also, the Procuring Entity must take care to ensure that the dates specified in the Schedule are consistent with any specified elsewhere in the tendering document, especially in the GCC/SCC (such as and/ or times specified for the submission and acceptance of the Agreed Project Plan). The work breakdown structure (deliverables) in the Implementation Schedule should be sufficiently detailed to facilitate careful management of the Contract - but not so detailed that it unnecessarily constrains tenderers from organizing the proposed work in the most efficient and effective manner.

To facilitate the tendering and the contract management processes, the Implementation Schedule, the System Inventory Tables and Price Schedules should be closely linked. In particular, the Implementation Schedule defines the major deliverable Subsystems. For each Subsystem there should be a corresponding System Inventory Table or Tables. These System Inventory Tables catalog the specific items (inputs) comprising the Sub system, as well as the quantities of each item required (for the supply and install cost items as well as their current cost items). For each System Inventory Table there should be a corresponding Price Schedule that closely mirrors the System Inventory Table. Careful development of these materials will greatly improve the chances of obtaining complete and comparable tenders (and ease the tender evaluation process) as well as improving the likelihood that the Procuring Entity's and Supplier's interactions during contract execution are closely orchestrated (thus easing the burden of contract management and improving the likelihood of successful implementation of the Information System).

The sample tables comprise:

- a) An Implementation Schedule Table;*
- b) A Site Table(s); and*
- c) A Table of Holidays and other Non-Working Days.*

The Procuring Entity should modify these tables, as required, to suit the particulars of the System (and Sub systems) to be supplied and installed. The sample text in the tables is illustrative only and should be modified or deleted as appropriate. The timings stated in the Implementation Schedule should be specified in weeks from Contract Effectiveness. This will ease the maintenance of the tendering documents during the preparation and tendering processes.

Where appropriate, the Implementation Schedule should indicate the deliverables against which Liquidated Damages maybe applied in the event of implementation delays arising from the actions of the Supplier (as governed by the SCC and GCC clause 28). These milestones should be kept to the essential minimum needed by the Procuring Entity to ensure contract discipline by the Supplier- but not so many that they unnecessarily strain the Procuring Entity-Supplier relationship upon which the successful implementation of the Information System will invariably depend.

The Site Table(s) catalog the physic allocation of the site(s) where the System is to be supplied, installed, and operated. The site(s) may consist of a number of branch offices in remote regions, different departments or offices in the same city, or a combination of these. The Procuring Entity must specify this information in sufficient detail so that Tenderers can accurately estimate costs related to:

- a) Delivery and insurance;*
- b) Installation, including cabling and inter-building communications, etc.*
- c) Perform support services, such as warranty defect repair, maintenance, and other technical support services; and*
- d) Other related Service obligations the successful Tenderer will have to perform under the Contract, including related travel and subsistence costs.*

This information will also help Tenderers identify which site(s) may warrant a site visit during the period they are preparing their tenders. If the System presents complex installation challenges, site layout drawings should be included in the Background and Informational Materials Section.

i) Implementation Schedule Table

Tenderer to specify in the preliminary project plan, desired installation and acceptance dates for all items in schedule below, modifying the sample line items and sample table entries as needed.

Line Item No.	Subsystem / Item	Configuration Table No.	Site / Site Code	Delivery	Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone
1.	Project Plan		HO				
2.	Database (DB)/ application server software		HO				
3.	Operational Acceptance of the System as an integrated whole		HO, R1				
4.	Warranty Period		HO				
5.	Recurrent Cost Item 1		HO				
6.				
7.	Recurrent Cost Item 'n'		HO				

Note: The System Inventory Table(s) for the specific items and components that constitute the Subsystems or item. Refer to the Site Table(s) below for details regarding the site and the site code.

ii) Site Table

The site(s) at which the System is to be operated

Site Code	Site	City / Town / Region	Primary Street Address	Drawing Ref. (if any)
HO	Head Office	Kisumu	Kibos, Kisumu – Miwani Road	
R1	Coast	Kilifi County		
R1.1	Sugarcane Breeding Center	Mtwapa	KALRO Complex, Mtwapa – Kilifi road	
R2	South Nyanza	Migori County		
R2.1	Training and Outreach Center	Opapo	Opapo, Rongo – Homabay Road	
R3	Western	Kakamega County		
R3.1	Training and Outreach Center	Mumias	Mumias Town next to Judiciary	

iii) Table of Holidays and Other Non – Working Days

The days for each month for each year that are non-working days, due to Holidays or other business reasons (other than weekends): **TO BE ADVISED**

Month	2026	2027	2028	2029
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

G. 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 (such as 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 Procuring Entity should modify these tables, as required, to suit the particulars of the System (and Sub systems) 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). The second version of the table permits the Procuring Entity to obtain price information about items that are needed during the Warranty Period.

A. System Inventory Table (Supply and Installation Cost ITEMS) [Identifying Number] – [FC001]

Component No.	Component	Relevant Technical Specifications No.	Additional Site Information (such as building, floor, department, etc.)	Quantity
1.	Subsystem 1: ERP (To be supplied)		--	--
1.1.	Modules			--
1.2.	Database Engine			
1.3.	Licences			
1.4.	APIs			
1.5.	Etc.			
2.	Subsystem 2: Business Applications (To be supplied)			--
2.1.	GIS			--
2.2.	CAD			
2.3.	GenStat & STATA			
2.4.	Audio-Visual Editors			
2.5.	Etc.			--
3.	Subsystem 3: Consumables			
3.1.	Toner Cartridge			
3.2.	Etc.			

B. SYSTEM INVENTORY TABLE (RECURRENT COST ITEMS) [IDENTIFYING NUMBER]– [RC001]

Component No.	Component	Relevant Technical Specifications No.	Y1	Y2	Y3
1.	New Software Infrastructure Warranty Defect Repair and Routine Maintenance		all items, all sites, included in the Supply and Install Price	all items, all sites, included in the Supply and Install Price	all items, all sites, included in the Supply and Install Price
2.	Technical Services:				
2.1.	Project Manager		----days	----days	----days
2.2.	Systems Analyst		----days	----days	----days
2.3.	Programmer/ Developer		----days	----days	----days
2.4.	Systems Administrator		----days	----days	----days
	...				

2 Background and Informational Materials

Notes on Background and Informational Materials

This section of the tendering document provides a place to gather materials that the Procuring Entity believes will help Tenderers prepare more precisely targeted technical tenders and more precise tender prices.

These materials MUST NOT introduce requirements for the Information System. Rather they should assist Tenderers 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.

Background and Informational Materials

A. BACKGROUND

1 The Procuring Entity

- 1.1 *[Overview of the Agency's legal basis, organizational role, and core objectives] - [Not Applicable]*
- 1.2 *[Overview of the stakeholders to the Information System] - [Not Applicable]*
- 1.3 *[Overview of the Procuring Entity's project management and decision-making arrangements applicable to the System and performance of the Contract] - [Not Applicable]*

2 The Procuring Entity's Business Objectives for the Information System

- 2.1 *[Overview of the current business objectives, procedures, and processes and how they will be affected by the System] - [Not Applicable]*
- 2.2 *[Overview of the changes in objectives, procedures, and processes to be made possible by the System] - [Not Applicable]*
- 2.3 *[Brief description of the expected benefits of the System] - [Not Applicable]*

B. INFORMATIONAL MATERIALS

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

- 3.1 *[Overview of the laws, regulations and other formal norm which will shape the Information System] - [Not Applicable]*
- 3.2 *[Samples of existing standardized reports, data entry forms, data formats, data coding schemes, etc. which the Information System will need to implement] - [Not Applicable]*

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

- 4.1 *[Overview of the existing information systems and information technologies which will establish the technological context for the implementation of the Information System] - [Not Applicable]*
- 4.2 *[Overview of the ongoing or planned information systems initiatives that will shape context for the implementation of the Information System] - [Not Applicable]*

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

5.1 *[Overview of the KESRETI's existing training facilities that would be available to support the implementation of the Information System.] – KESRETI has at least one conference/ board room adequate for conducting training.*

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

[Information of the sites at which the Information System would be implemented] - [Not Applicable]

6.1 Site Visit Form

TENDER SITE VISIT FORM

The purpose of the visit is to ensure that the tenderer has undertaken an understanding of the KESRETI sites before bidding for the relevant lots of tender No. for “

Hardware & Software) ” as stipulated in the tender data sheet (TDS).

This form is to certify that :

has visited KESRETI

to survey the premises/installations in relation to the above tender (cite specific lot numbers) .
During the visit, the bidder (s) were taken through all the locations and facilities for installation
of the ICT system .

BIDDERS REPRESENTATIVE DETAILS :

NAME.....

COMPANY.....

SIGNATURE.....

RUBBER STAMP

HOSTED BY :

KESRETI OFFICER IN CHARGE.....

SIGNATURE.....

RUBBER STAMP

By signing this form, the bidder representative named above confirms that all his/her queries have been answered to their satisfactory.

PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS

Section VI - General Conditions of Contract

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 Procuring Entity 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 Procuring Entity and the Supplier using the form of Contract Agreement contained in the Sample Contractual Forms Section of the tender documents and any modifications to this form agreed to by the Procuring Entity 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 tendering documents.
- vii) “Implementation Schedule” means the Implementation Schedule in Section VII of the tendering 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 Regulations issued under the Public Procurement and Asset Disposal Act (2015).
- x) “tendering documents” refers to the collection of documents issued by the Procuring Entity to instruct and inform potential suppliers of the processes for tendering, selection of the winning tender, and Contract formation, as well as the contractual conditions governing the relationship between the Procuring Entity and the Supplier. The General and Special Conditions of Contract, the Technical Requirements, and all other documents included in the tendering documents reflect the Procurement Regulations that the Procuring Entity is obligated to follow during procurement and administration of this Contract.

b) Entities

- i) “Procuring Entity” means the entity purchasing the Information System, as **specified in the SCC**.
- ii) “Project Manager” means the person **named as such in the SCC** or otherwise appointed by the Procuring Entity in the manner provided in GCC Clause 18.1 (Project Manager) to perform the duties delegated by the Procuring Entity.
- iii) “Supplier” means the firm or Joint Venture whose tender to perform the Contract has been accepted by the Procuring Entity and is named as such in the Contract Agreement.
- iv) “Supplier's Representative” means any person nominated by the Supplier and named as such in the Contract Agreement or otherwise approved by the Procuring Entity in the manner provided in GCC Clause 18.2 (Supplier's Representative) to perform the duties delegated by the Supplier.
- v) “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 sub contracted directly or indirectly by the Supplier.
- vi) “Adjudicator” means the person named in Appendix 2 of the Contract Agreement, appointed by agreement between the Procuring Entity and the Supplier to make a decision on or to settle any

Dispute between the Procuring Entity and the Supplier referred to him or her by the parties, pursuant to GCC Clause 43.1 (Adjudication).

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.
- v) "Services" means all technical, logistical, 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, site preparation, installation, 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 Procuring Entity, pursuant to GCC Clause 19, based on the requirements of the Contract and the Preliminary Project Plan included in the Supplier's tender. The "Agreed Project Plan" is the version of the Project Plan approved by the Procuring Entity, 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 Sub systems 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 Appendix4 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 Procuring Entity 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 Procuring Entity'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, extractor re-utilize data from, manufacture, introduce into circulation, publish, distribute, sell, license, sub license, transfer, rent, lease, transmit or provide access electronically, broadcast, display, enter in to 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 Procuring Entity 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 Sub system, 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 Procuring Entity 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) “Supplier's Country” is the country in which the Supplier is legally organized, as named in the Contract Agreement.
- ii) **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.
- iii) “Eligible Country” means the countries and territories eligible for participation in procurements.
- iv) “Day” means calendar day of the Gregorian Calendar.
- v) “Week” means seven (7) consecutive Days, beginning the day of the week as is customary in Kenya.
- vi) “Month” means calendar month of the Gregorian Calendar.
- vii) “Year” means twelve (12) consecutive Months.

- viii) “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 Sub system(s).
- ix) “Contract Period” is the time period during which this Contract governs the relations and obligations of the Procuring Entity 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.
- x) “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 Sub system(s), during which the Supplier is responsible for defects with respect to the System (or the relevant Sub-system[s]) as provided in GCC Clause 29 (Defect Liability).
- xi) “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.
- xii) 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 Contractor 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 All Contract Documents and related correspondence exchanged between Procuring Entity and Supplier shall be written in **the English Language** of these tendering documents, 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 English Language under GCC Clause 3.1.1 above, the translation of such documents into the **English** 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 Procuring Entity 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 Sub contractors 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 Procuring Entity, and nothing contained in the Contractor in any sub contract awarded by the Supplier shall be construed to create any contractual relationship between any such employees, representatives, or Sub contractors and the Procuring Entity.

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 Procuring Entity 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 Procuring Entity.

3.10 Non-waiver

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 Contractor 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, air mail post, special courier, facsimile, electronic mail, or Electronic Data Interchange (EDI), 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 air mail post or special courier, except as otherwise specified in the Contract.

4.1.2 Any notice sent by air mail 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 air mail 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 Procuring Entity 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 Procuring Entity or Supplier may give and receive notices at their fall back addresses. The address of the Project Manager and the fall back address of the Procuring Entity are as **specified in the SCC** or as subsequently established/ amended. The address of the Supplier's Representative and the fall back 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 Kenya.
- 5.2 Throughout the execution of the Contract, the Supplier shall comply with the import of goods and services prohibitions in Kenya when
- a As a matter of law or official regulations, Kenya 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, Kenya 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 Procuring Entity requires compliance with the laws of Kenya on Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in its statutes.
- 6.2 The Procuring Entity 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 tendering 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 for 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 tender, such as consumables, spare parts, and technical services (such as maintenance, technical assistance, and operational support), areas **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 with in the period **specified in the SCC**, and without prejudice to GCC Clause 28.2, the Supplier shall there after 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 Sub system (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 the irrespective callings and supervisory staff who are competent to adequately supervise the work at hand.
- 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 Procuring Entity 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 tender 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 Kenya that are necessary for the performance of the Contract, including, without limitation, visas for the Supplier's and Subcontractor's personnel and entry permits for all imported Supplier's Equipment. The Supplier shall acquire all other permits, approvals, and/or licenses that are not the responsibility of the Procuring Entity 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 Kenya. The laws will include all national, provincial, municipal, or other laws that affect the performance of the Contract and are binding upon the Supplier. The Supplier shall indemnify and hold harmless the Procuring Entity 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 Sub contractors and their personnel, but without prejudice to GCC Clause 10.1. The Supplier shall not indemnify the Procuring Entity to the extent that such

liability, damage, claims, fines, penalties, and expenses were caused or contributed to by a fault of the Procuring Entity.

- 9.6 The Supplier shall, in all dealings with its labor and the labor of its Subcontractors currently employed on or connected with the Contract, pay due regard to all recognized festivals, official holidays, religious or other customs, and all local laws and regulations pertaining to the employment of labor.
- 9.7 Any Information Technologies or other Goods and Services that will be incorporated in or be required for the System and other supplies shall have their Origin, 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).
- 9.8 Pursuant to paragraph 2.2e. of Appendix B to the General Conditions the Supplier shall permit and shall cause its subcontractors and sub-consultants to permit, the PPRA and/or persons appointed by the PPRA to inspect the Site and/or the accounts and records relating to the procurement process, selection and/or contract execution, and to have such accounts and records audited by auditors appointed by the PPRA if requested by the PPRA. The Supplier's and its Sub contractors' and sub-consultants' attention is drawn to Sub-Clause 6.1 which provides, inter alia, that acts intended to materially impede the exercise of the PPRA's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the PPRA's prevailing sanctions procedures).
- 9.9 The Supplier shall conform to the sustainable procurement contractual provisions, if and as **specified in the SCC**.
- 9.10 **Unless otherwise specified in the SCC** the Supplier shall have no other Supplier responsibilities.

10 Procuring Entity's Responsibilities

- 10.1 The Procuring Entity shall ensure the accuracy of all information and/or data to be supplied by the Procuring Entity to the Supplier, except when otherwise expressly stated in the Contract.
- 10.2 The Procuring Entity 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 Procuring Entity 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 are as reasonably required for the proper execution of the Contract.
- 10.4 If requested by the Supplier, the Procuring Entity 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 under takings require the Supplier or Sub contractors or the personnel of the Supplier or Sub contractors, 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 Procuring Entity shall use its best endeavors to assist the Supplier in obtaining such services in a timely and expeditious manner.
- 10.6 The Procuring Entity 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 Procuring Entity may result in an appropriate extension of the Time for Operational Acceptance, at the Supplier's discretion.
- 10.7 Unless otherwise specified in the Contractor agreed upon by the Procuring Entity and the Supplier, the Procuring Entity 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 Procuring Entity 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 Procuring Entity 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 anyway the Supplier's responsibilities after the date of Operational Acceptance otherwise specified in the Contract.
- 10.10 The Procuring Entity 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 Procuring Entity, 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 Procuring Entity shall have no other Procuring Entity 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.
- 11.4 Where the contract price is different from the corrected tender price, in order to ensure the contractor is not paid less or more relative to the contract price (*which would be the tender price*), payment valuation certificates and variation orders on omissions and additions valued based on rates in the Bill of Quantities or schedule of rates in the Tender, will be adjusted by a plus or minus percentage. The percentage already worked out during tender evaluation is worked out as follows: $(\text{corrected tender price} - \text{tender price}) / \text{tender price} \times 100$.

12 Terms of Payment

- 12.1 The Supplier's request for payment shall be made to the Procuring Entity 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 Procuring Entity herein shall be deemed to constitute acceptance by the Procuring Entity of the System or any Sub system (s).
- 12.3 Payments shall be made promptly by the Procuring Entity, but in no case later than (sixty (60) days after submission of a valid invoice and upon satisfactorily performance of the contractual obligations by the Supplier. In the event that the Procuring Entity fails to make any payment by its respective due date or within the period set forth in the Contract, the Procuring Entity 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 Kenya shall be made to the Supplier through an irrevocable Form 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 Form 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.

13 Securities

13.1 Issuance of Securities

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

13.2 Advance Payment Security

- a) Unless otherwise specified in the SCC, 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.
- b) The security shall be in the form provided in the tendering documents or in another form acceptable to the Procuring Entity. 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 Procuring Entity. **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 tendering documents, or it shall be in another form acceptable to the Procuring Entity.
- 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 and inside Kenya, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside Kenya and inside Kenya, and these duties or taxes shall be 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 Procuring Entity. 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 Kenya, 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 Kenya, the Procuring Entity 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 tender submission in Kenya (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 Sub contractors, 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 Procuring Entity 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 Procuring Entity for use within the scope of the project of which the System is apart, 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 Procuring Entity'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 (such as 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 Contractor on creation of the rights (if later than the date of this Contract), vest in the Procuring Entity. The Supplier shall do and execute or arrange for the doing and executing of each necessary act, document, and thing that the Procuring Entity may consider necessary or desirable to perfect the right, title, and interest of the Procuring Entity in and to those rights. In respect of such Custom Software and Custom Materials, the Supplier shall ensure that the holder of an or a right in such an item does not assert it, and the Supplier shall, if requested to do so by the Procuring Entity 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 Procuring Entity, the Supplier here by grants to the Procuring Entity 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. non-exclusive;
- 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 Kenya;
- 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 tender), plus a backup computer(s) of the same or similar capacity, if the primary is (are) in operative, and during a reasonable transitional period when use is being transferred between primary and back up;
- 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 tender 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 back up 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 safe keeping or back up purposes;
- v. customized, adapted, or combined with other computer software for use by the Procuring Entity, provided that derivative software incorporating any substantial part of the delivered, restricted Software shall be subject to same restrictions as a set forth in this Contract;
- vi. **unless otherwise specified in the SCC**, disclosed to, and reproduced for use by, support service suppliers and their sub-contractors, (and the Procuring Entity may sub-license such persons to use and copy for use the Software) to the extent reasonably necessary to the performance of their support service contracts, subject to the same restrictions as a 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 Procuring Entity 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 Procuring Entity and the Supplier, Procuring Entity will allow, under a pre-specified agreed procedure, the execution of embedded software functions under Supplier's control, and unencumbered transmission of resulting information on software usage.

17 Confidential Information

17.1 **Unless otherwise specified in the SCC**, the "Receiving Party" (either the Procuring Entity 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 Procuring Entity or the Procuring Entity'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 Procuring Entity to the extent reasonably required for the Subcontractor to perform its work under the Contract; and
- b) the Procuring Entity 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 a tenderer 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 Procuring Entity shall not, without the Supplier's prior written consent, use any Confidential Information received from the Supplier for any purpose other than the operation, maintenance and further development of the System. Similarly, the Supplier shall not, without the Procuring Entity's prior written consent, use any Confidential Information received from the Procuring Entity 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.

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 Procuring Entity shall appoint and notify the Supplier in writing of the name of the Project Manager. The Procuring Entity 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 Procuring Entity 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 Procuring Entity 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 Procuring Entity 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 Procuring Entity does not object to the appointment within fourteen (14) days, the Supplier's Representative shall be deemed to have been approved. If the Procuring Entity 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 Procuring Entity's prior written consent, which shall not be unreasonably withheld. If the Procuring Entity 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 Procuring Entity's Project Manager and staff, act within their own authority, and a tenderer by directives issued by the Procuring Entity that are consistent with the terms of the Contract. The Supplier's Representative is responsible for managing the activities of its personnel and any subcontracted personnel.

18.2.5 The Supplier's Representative may, subject to the approval of the Procuring Entity (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 there by 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 Objections and Removals

18.3.1 The Procuring Entity may by notice to the Supplier object to any representative or person employed by the Supplier in the execution of the Contract who, in the reasonable opinion of the Procuring Entity, may have behaved inappropriately, be incompetent, or be negligent. The Procuring Entity shall provide evidence of the same, where upon the Supplier shall remove such person from work on the System.

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 replacement.

19 Project Plan

- 19.1 In close cooperation with the Procuring Entity and based on the Preliminary Project Plan included in the Supplier's tender, 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 Procuring Entity. The Procuring Entity 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 Procuring Entity. The Procuring Entity shall, within five (5) days of resubmission of the Project Plan, notify the Supplier of any remaining non-conformities. 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 Procuring Entity shall provide confirmation in writing to the Supplier. This approved Project Plan (“the Agreed Project Plan”) shall be contractually binding on the Procuring Entity 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 Procuring Entity 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 Procuring Entity and/ or actions to be taken by the Procuring Entity in the next reporting period;
 - vi) 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 Procuring Entity other (periodic) reports **as specified in the SCC**.

20 Sub-contracting

- 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 Procuring Entity. If no Subcontractors are listed for an item, the Supplier shall prepare a list of Subcontractors it considers qualified and wishes to be added to the list for such items. The Supplier may from time to time propose additions to or deletions from any such list. The Supplier shall submit any such list or any modification to the list to the Procuring Entity for its approval insufficient time so as not to impede the progress of work on the System. The Procuring Entity shall not withhold such approval unreasonably. Such approval by the Procuring Entity 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 Procuring Entity'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 Procuring Entity in writing at least twenty-eight (28) days prior to the proposed mobilization date for such Subcontractor; and (ii) by the end of this period either the Procuring Entity has granted its approval in writing or fails to respond. The Supplier shall not engage any Subcontractor to which the Procuring Entity

has objected in writing prior to the end of the notice period. The absence of a written objection by the Procuring Entity during the above specified period shall constitute formal acceptance of the proposed Subcontractor. Except to the extent that it permits the deemed approval of the Procuring Entity of Subcontractors not listed in the Contract Agreement, nothing in this Clause, however, shall limit the rights and obligations of either the Procuring Entity or Supplier as they are specified in GCC Clauses 20.1 and 20.2, or in Appendix 3 of the Contract Agreement.

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 Contractor, 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 Procuring Entity.

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 Procuring Entity, 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 tender submission shall apply. During Contract execution, any changes in such codes and standards shall be applied after approval by the Procuring Entity and shall be treated in accordance with GCC Clause 39.3.

21.3 Approval/ Review of Controlling Technical Documents by the Project Manager

21.3.2 **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.

21.3.3 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.

21.3.4 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.

21.3.5 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.

21.3.6 If any dispute occurs between the Procuring Entity 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 Procuring Entity has not given notice under

GCC Clause 43.1.2, then the Supplier shall be reimbursed by the Procuring Entity 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.

21.3.7 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 Procuring Entity.

21.3.8 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 Procuring Entity'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 Procuring Entity; which consent shall not be unreasonably withheld.

22.4 Packaging and 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 Procuring Entity'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 Inco terms.

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.

Unless otherwise specified in the SCC, the Supplier will provide the Procuring Entity with shipping and other documents, as specified below:

22.4.4 For Goods supplied from outside Kenya:

Upon shipment, the Supplier shall notify the Procuring Entity 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 Procuring Entity 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 Kenya and at the site.

25.5.2 For Goods supplied locally (i.e., from within Kenya):

Upon shipment, the Supplier shall notify the Procuring Entity by cable, facsimile, electronic mail, or EDI with the full details of the shipment. The Supplier shall promptly send the following documents to the Procuring Entity 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.

25.6 Customs Clearance

- a) The Procuring Entity will bear responsibility for, and cost of, customs clearance into Kenya in accordance with the particular Incoterm(s) used for Goods supplied from outside Kenya in the Price Schedules referred to by Article 2 of the Contract Agreement.
- b) At the request of the Procuring Entity, the Supplier will make available a representative or agent during the process of customs clearance in Kenya for goods supplied from outside Kenya. 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 tender and still to be delivered, the Supplier shall be obligated to offer to the Procuring Entity 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).
- 23.2 At any point during performance of the Contract, for Information Technologies still to be delivered, the Supplier will also pass on to the Procuring Entity any cost reductions and additional and/ or improved support and facilities that it offers to other clients of the Supplier in Kenya, pursuant to GCC Clause 39 (Changes to the System).
- 23.3 During performance of the Contract, the Supplier shall offer to the Procuring Entity 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 Kenya, 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 tender.
- 23.4 **Unless otherwise specified in the SCC**, during the Warranty Period, the Supplier will provide at no additional cost to the Procuring Entity 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 Kenya, and no later than twelve (12) months after they are released in the country of origin of the Software.
- 23.5 The Procuring Entity 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 Procuring Entity receives a production-ready copy of a subsequent version, release, or update. The Procuring Entity 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 Tender) and shall not exceed the prevailing rates charged by the Supplier to other Procuring Entity's in Kenya for similar services.

25 Inspections and Tests

- 25.1 The Procuring Entity 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 Procuring Entity or its representative shall be entitled to attend any such inspections and/or tests of the components, provided that the Procuring Entity 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 Procuring Entity 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 Procuring Entity.
- 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 Procuring Entity 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 tendering documents, stating that the System, or major component or Subsystem (if Acceptance by major component or Sub system 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 Sub system and, when in the Supplier's opinion the System or Sub system is ready for Commissioning and Operational Acceptance Testing, notify the Procuring Entity in writing, in accordance with GCC Clause 26.1. The procedure set out in this GCC Clause 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 Procuring Entity puts the System or a Subsystem in to production operation, then the System (or Subsystem) shall be deemed to have achieved successful Installation as of the date of the Supplier's notice or repeated notice, or when the Procuring Entity put the System in to 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 Procuring Entity 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 Procuring Entity (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 tender, 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 Procuring Entity'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 Procuring Entity, 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 Procuring Entity 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 Procuring Entity within the period from the date of Installation or any other agreed-upon period as specified in GCC Clause 27.2.2 above; or
- c) the Procuring Entity has put the System into production or use for sixty (60) consecutive days. If the System is put into production or use in this manner, the Supplier shall notify the Procuring Entity 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 Procuring Entity, 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 Procuring Entity, and the Procuring Entity, with the full cooperation of the Supplier, shall use all reasonable endeavors to promptly carry out retesting of the System or Sub system. Upon the successful conclusion of the Operational Acceptance Tests, the Supplier shall notify the Procuring Entity of its request for Operational Acceptance Certification, in accordance with GCC Clause 27.3.3. The Procuring Entity 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, the neither:

- a The Procuring Entity 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 Procuring Entity 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 (such as minor fittings, furnishings or site works, etc.), the Project Manager shall issue an Operational Acceptance Certificate within fourteen (14) days after the fittings and/or furnishings have been delivered and/or installed or the site works have been completed. The Supplier shall, however, use all reasonable endeavors to promptly remedy any defects or deficiencies in such minor components detected by the Procuring Entity 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 Procuring Entity 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 often (10) percent of the Contract Price (exclusive of Recurrent Costs if any). Once the Maximum is reached, the Procuring Entity 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 Procuring Entity may have under the Contract for other delays.
- 28.4 If liquidated damages are claimed by the Procuring Entity for the System (or Subsystem), the Supplier shall have no further liability whatsoever to the Procuring Entity 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 material fashion the performance, reliability, or 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 the Information Technologies and other Goods supplied or of the Services provided by the Supplier, the Supplier shall promptly, in consultation and agreement with the Procuring Entity 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 Procuring Entity;
 - 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 Procuring Entity, 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 Procuring Entity or any matters for which the Supplier has disclaimed responsibility, in accordance with GCC Clause 21.1.2.
- 29.8 The Procuring Entity 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 Procuring Entity shall afford all reasonable opportunity for the Supplier to inspect any such defect. The Procuring Entity 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 Procuring Entity, 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 Procuring Entity may give the Supplier notice requiring that tests of the defective part be made by the Supplier immediately upon completion of such remedial work, where upon 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 maybe) until that part of the System passes such tests. The tests shall be agreed upon by the Procuring Entity 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 Procuring Entity 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 Procuring Entity in connection with such work shall be paid to the Procuring Entity by the Supplier or may be deducted by the Procuring Entity 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 Procuring Entity 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 Procuring Entity may choose to retain physical possession of any replaced defective information storage devices.
- 29.13 At the request of the Procuring Entity and without prejudice to any other rights and remedies that the Procuring Entity may have against the Supplier under the Contract, the Supplier will offer all possible assistance to the Procuring Entity 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 Procuring Entity 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 Procuring Entity'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 govern show 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 Procuring Entity upon completion of the necessary changes, modifications, and/or additions and shall request the Procuring Entity 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 Procuring Entity 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 here by 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 Procuring Entity 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 transfer so frights 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 Procuring Entity 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 Procuring Entity and its employees and officers from and against any and all losses, liabilities, and costs (including losses, liabilities, and costs incurred in defending a claim alleging such a liability), that the Procuring Entity 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 by 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 a rise as a result of the Procuring Entity'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 there by 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 apparent, subsidiary, or affiliate of the Procuring Entity's organization;
 - b) Is a direct result of a design mandated by the Procuring Entity's Technical Requirements and the possibility of such infringement was duly noted in the Supplier's Tender; or
 - c) Results from the alteration of the System, including the Materials, by the Procuring Entity 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 Procuring Entity arising out of the matters referred to in GCC Clause 32.1, the Procuring Entity shall promptly give the Supplier notice of such proceedings or claims, and the Supplier may at its own expense and in the Procuring Entity'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 Procuring Entity within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Procuring Entity shall be free to conduct the same on its own behalf. Unless the Supplier has so failed to notify the Procuring Entity within the twenty-eight (28) days, the Procuring Entity shall make no admission that may be prejudicial to the defense of any such proceedings or claim. The Procuring Entity 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 Procuring Entity 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 Procuring Entity or any persons (other than the Supplier) contracted by the Procuring Entity, 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 Procuring Entity or any other person contracted by the Procuring Entity, 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 apparent, 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 Procuring Entity or any persons contracted by the Procuring Entity.

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 Procuring Entity notice of such proceedings or claims, and the Procuring Entity 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 Procuring Entity 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 Procuring Entity 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 Procuring Entity's request, afford all available assistance to the Procuring Entity in conducting such proceedings or claim and shall be reimbursed by the Procuring Entity 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 Procuring Entity, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Procuring Entity; and
- b) the aggregate liability of the Supplier to the Procuring Entity, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to any obligation of the Supplier to indemnify the Procuring Entity 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 Procuring Entity 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) 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 Procuring Entity shall become responsible for the care and custody of the System or Subsystems upon their Delivery. The Procuring Entity 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), except 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) (in so far 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 contractor could not reasonably foresee, or if reasonably foreseeable could not reasonably make provision for or insure against, in so far 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 Procuring Entity 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 Procuring Entity, or any such matter for which the Supplier has disclaimed responsibility in accordance with GCC Clause 21.1.2, the Procuring Entity 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 Procuring Entity 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 Procuring Entity in accordance with GCC Clause 39. If the Procuring Entity does not request the Supplier in writing to make good any loss or damage to the System thereby occasioned, the Procuring Entity 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 Procuring Entity shall terminate the Contract pursuant to GCC Clause 41.1.
- 35.3 The Procuring Entity shall be liable for any loss of or damage to any Supplier's Equipment which the Procuring Entity has authorized to locate within the Procuring Entity'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 Kenya.
- 36.2 Subject to GCC Clause 36.3, the Supplier shall indemnify and hold harmless the Procuring Entity and its employees and officers from and against any and all losses, liabilities and costs (including losses, liabilities, and costs incurred in defending a claim alleging such a liability) that the Procuring Entity 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 Procuring Entity, its contractors, employees, officers, or agents.

- 36.3 If any proceedings are brought or any claim is made against the Procuring Entity that might subject the Supplier to liability under GCC Clause 36.2, the Procuring Entity shall promptly give the Supplier notice of such proceedings or claims, and the Supplier may at its own expense and in the Procuring Entity'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 Procuring Entity within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Procuring Entity shall be free to conduct the same on its own behalf. Unless the Supplier has so failed to notify the Procuring Entity within the twenty-eight (28) day period, the Procuring Entity shall make no admission that may be prejudicial to the defense of any such proceedings or claim. The Procuring Entity 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 Procuring Entity 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 Procuring Entity, 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 Procuring Entity to liability under GCC Clause 36.4, the Supplier shall promptly give the Procuring Entity notice of such proceedings or claims, and the Procuring Entity 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 Procuring Entity 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 Procuring Entity 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 Procuring Entity's request, afford all available assistance to the Procuring Entity in conducting such proceedings or claim and shall be reimbursed by the Procuring Entity 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 Procuring Entity, 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 Procuring Entity's personnel) and loss of or damage to property (including the Procuring Entity's property and any Subsystems that have been accepted by the Procuring Entity) occurring in connection with the supply and installation of the Information System.
 - d) Automobile Liability Insurance

In accordance with the statutory requirements prevailing in Kenya, 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 Procuring Entity 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 Procuring Entity 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 Procuring Entity may take out and maintain in effect any such insurance and may from time to time deduct from any amount due to the Supplier under the Contract any premium that the Procuring Entity 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 Procuring Entity 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 Procuring Entity'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 Procuring Entity. With respect to insurance claims in which the Supplier's interest is involved, the Procuring Entity 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 Procuring Entity 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 war like 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.

- 38.3 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 non-performance 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 Procuring Entity 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 Procuring Entity 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 Procuring Entity 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.
- 39.1.2 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).
- 39.1.3 The Supplier may from time to time during its performance of the Contract propose to the Procuring Entity (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 Procuring Entity may at its discretion approve or reject any Change proposed by the Supplier.
- 39.1.4 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.
- 39.1.5 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 tendering documents.

39.1.6 Moreover, the Procuring Entity 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 Procuring Entity

39.2.4 If the Procuring Entity 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.

39.2.5 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 Procuring Entity 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 Procuring Entity does not intend to proceed with the Change.

39.2.6 Upon receipt of the Procuring Entity'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 Procuring Entity and Supplier has not reached agreement in accordance with GCC Clause 39.2.6, then GCC Clause 39.2.7 shall apply.

39.2.7 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.

39.2.8 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 Procuring Entity accepts the Supplier's objection, the Procuring Entity 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.

39.2.9 Upon receipt of the Change Proposal, the Procuring Entity and the Supplier shall mutually agree upon all matters contained in the Change Proposal. Within fourteen (14) days after such agreement, the Procuring Entity shall, if it intends to proceed with the Change, issue the Supplier a Change Order. If the Procuring Entity 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 Procuring Entity 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.

39.2.10 If the Procuring Entity 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 Procuring Entity choose not to proceed or the Procuring Entity 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 Procuring Entity 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.

39.4.1 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 Procuring Entity may incur in implementing the value engineering proposal; and
- (c) a description of any effect(s) of the change on performance/ functionality.

39.4.2 The Procuring Entity 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 Procuring Entity; or
- c) improves the quality, efficiency, safety or sustainability of the systems; or
- d) yields any other benefits to the Procuring Entity, without compromising the necessary functions of the systems.

39.4.3 If the value engineering proposal is approved by the Procuring Entity 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 Procuring Entity; 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 Procuring Entity and the Supplier shall agree upon the period of such extension. In the event that the Supplier does not accept the Procuring Entity'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 Procuring Entity's Convenience

41.1.1 The Procuring Entity 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 Procuring Entity 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 Procuring Entity pursuant to GCC Clause (d) (ii) below;
- c) Remove all Supplier's Equipment from the site, repatriate the Supplier's and its Sub contractors' 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 Procuring Entity the parts of the System executed by the Supplier up to the date of termination;
 - ii) to the extent legally possible, assign to the Procuring Entity 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 Procuring Entity, in any subcontracts concluded between the Supplier and its Subcontractors;
 - iii) deliver to the Procuring Entity 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 Procuring Entity 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 and its Subcontractors '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 Procuring Entity, without prejudice to any other rights or remedies it may possess, may terminate the Contract forth within the following circumstances by giving a notice of termination and its reasons there for to the Supplier, referring to this GCC Clause 41.2:

- a) If the Supplier becomes bankrupt or in solvent, 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 under taking 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 Contractor any right or interest, there in in violation of the provision of GCC Clause 42 (Assignment); or

- c) If the Supplier, in the judgment of the Procuring Entity has engaged in Fraud and Corruption, as defined in paragraph 2.2a. of the Appendix 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:

- d) Has abandoned or repudiated the Contract;
- e) Has without valid reason failed to commence work on the System promptly;
- f) 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;
- g) 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 Procuring Entity that the Supplier can attain Operational Acceptance of the System by the Time for Achieving Operational Acceptance as extended; then the Procuring Entity 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 fourteen (14) days of its receipt of such notice, then the Procuring Entity 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:

- h) cease all further work, except for such work as the Procuring Entity 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;
- i) terminate all subcontracts, except those to be assigned to the Procuring Entity pursuant to GCC Clause (d) below;
- j) deliver to the Procuring Entity the parts of the System executed by the Supplier up to the date of termination;
- k) to the extent legally possible, assign to the Procuring Entity 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 Procuring Entity, in any subcontracts concluded between the Supplier and its Subcontractors;
- l) deliver to the Procuring Entity 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 Procuring Entity 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 Procuring Entity thinks appropriate, the Procuring Entity 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 Procuring Entity 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 Procuring Entity completes the System, the cost of completing the System by the Procuring Entity 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 Procuring Entity 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 Procuring Entity, and if such excess is less than the sums due the Supplier under GCC Clause 41.2.5, the Procuring Entity shall pay the balance to the Supplier. The Procuring Entity 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 Procuring Entity 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 Procuring Entity 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 Procuring Entity to remedy the same, as the case may be. If the Procuring Entity 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 Procuring Entity, including but not limited to the Procuring Entity'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 Procuring Entity of such events, and if the Procuring Entity 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 Procuring Entity within twenty-eight (28) days of the said notice, the Supplier may by a further notice to the Procuring Entity referring to this GCC Clause 41.3.1, forth with terminate the Contract.

41.3.2 The Supplier may terminate the Contract immediately by giving a notice to the Procuring Entity to that effect, referring to this GCC Clause 41.3.2, if the Procuring Entity 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 Procuring Entity 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:

- c) 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;
- d) Terminate all subcontracts, except those to be assigned to the Procuring Entity pursuant to Clause 41.3.3 (d) (ii);
- e) remove all Supplier's Equipment from the site and repatriate the Supplier's and its Subcontractor's personnel from the site.
- f) In addition, the Supplier, subject to the payment specified in GCC Clause 41.3.4, shall:
 - i) deliver to the Procuring Entity the parts of the System executed by the Supplier up to the date of termination;
 - ii) to the extent legally possible, assign to the Procuring Entity 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 Procuring Entity, in any subcontracts concluded between the Supplier and its Subcontractors;
 - iii) to the extent legally possible, deliver to the Procuring Entity 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 Procuring Entity 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 Procuring Entity to the Supplier, account shall be taken of any sum previously paid by the Procuring Entity to the Supplier under the Contract, including any advance payment paid **pursuant to the SCC**.

42 Assignment

42.1 Neither the Procuring Entity nor the Supplier shall, without the express prior written consent of the other, assign to any third party the Contractor any part thereof, or any right, benefit, obligation, or interest there in or there under, 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 what so ever shall arise between the Procuring Entity 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, or 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 Appendix2 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 Clause43.2.1.

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 Procuring Entity or the Supplier within fifty-six (56) days of such reference, the decision shall become final and binding upon the Procuring Entity and the Supplier. Any decision that has become final and binding shall be implemented by the parties forth with.

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 Procuring Entity and the Supplier.

43.1.4 Should the Adjudicator resign or die, or should the Procuring Entity 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 Procuring Entity 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 Procuring Entity 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 Procuring Entity 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 Procuring Entity or the Supplier acts within the following fourteen (14) days, then either the Procuring Entity or the Supplier may act to give notice to the other party, with a copy for information to the Adjudicator incase 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 Procuring Entity shall pay the Supplier any monies due the Supplier.

SECTION VII - SPECIAL CONDITIONS OF CONTRACT

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

1. Definitions (GCC Clause 1)

GCC 1.1 (b) (i)	The Procuring Entity is: <i>Kenya Sugar Research and Training Institute (KESRETI), Kibos, along Kisumu – Miwani Road, Kisumu, P. O. Box 44 - 40100, Tel 020 2047307.</i>
GCC 1.1 (b) (ii)	The Project Manager is: <i>Contact Person: Charles Kamuren Director, ICT</i>
GCC 1.1 (e) (ix)	<i>There are no Special Conditions associated with GCC 1.1 (e) (x)</i>
GCC 1.1 (e) (xii)	The Post-Warranty Services Period is <i>[36 months]</i> starting with the completion of the Warranty Period.

2. Notices (GCC Clause 4)

GCC 4.3	Address of the Project Manager: <i>Kibos, along Kisumu – Miwani Road, Kisumu, P. O. Box 44 - 40100, Tel 020 2047307</i> Fallback address of the Procuring Entity: <i>Not Applicable.</i> For Electronic Data Interchange (EDI) the Procuring Entity and Supplier will use the following standards, protocols, addresses, and procedures: <i>director@kesreti.org</i>
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B. Subject Matter of Contract

3. Scope of the System (GCC Clause 7)

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 Supplier's Tender: <i>[The recurrent cost items/ services that are included in the Contract (see page 231, 2.1 The Supplier MUST provide the following services under the Contract or, as appropriate under separate contracts (as specified in the tendering documents).]</i> The Supplier agrees to supply spare parts required for the operation and maintenance of the System, as stated below, for <i>three (3)</i> years beginning with Operational Acceptance. Moreover, the price of such spare parts shall be those specified in the spare parts price schedule submitted by the Supplier as part of its Tender. These prices shall include the purchase price for such spare parts and other costs and expenses (including the Supplier's fees) relating to the supply of spare parts. <i>[Spare Parts Price Schedule in the Supplier's Tender]</i>
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4. Time for Commencement and Operational Acceptance (GCC Clause 8)

GCC 8.1	The Supplier shall commence work on the System within: <i>[To be agreed upon by both parties upon contract signing</i> from the Effective Date of the Contract.
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5. Supplier's Responsibilities (GCC Clause 9)

C. PAYMENT

6. Contract Price (GCC Clause 11)

GCC 11.2	Adjustments to the Contract Price shall be as follows: <i>Not Applicable.</i>
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7. Terms of Payment (GCC Clause 12)

GCC 12.1	<p>Subject to the provisions of GCC Clause 12 (Terms of Payment), the Procuring Entity shall pay the Contract Price to the Supplier 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.</p> <p>(a) Advance Payment twenty percent (20%) of the entire Contract Price, exclusive of all Recurrent Costs, shall be paid against receipt of a claim accompanied by the Advance Payment Security specified in GCC Clause 13.2.</p> <p><i>[Note: The advance payment may be higher than 10% in cases where Supplier's mobilization costs (i.e., costs between Contract effectiveness and the first scheduled Contract payment) are likely to be much larger than the advance payment, resulting in substantial negative cash flow for the Supplier. This happens primarily in projects where the Supplier must acquire expensive highly-specialized equipment to customize and configure a solution system prior to the first scheduled payment milestone. In these cases, the entire schedule of payments below obviously needs to be adjusted accordingly.]</i></p> <p>(b) Information Technologies, Materials, and other Goods, with the exception of Custom Software and Custom Materials: sixty percent (60%) of the total or pro-rata Contract Price for this category against Delivery ten percent (10%) of the same price against Installation ten percent (10%) of the same price against Operational Acceptance.</p> <p>(c) Custom Software and Custom Materials: sixty percent (60%) of the total or pro-rata Contract Price for this category against Installation twenty percent (20%) of the same price against Operational Acceptance.</p> <p><i>[Note: Large custom software development or system integration contracts (such as those taking longer than six months from Contract Effectiveness to Operational Acceptance of the Application Software subsystem) are usually paid in increments against Procuring Entity's acceptance of major intermediate deliverables defined in the implementation schedule as key milestones (e.g. a sequence of major system design documents, such as: software requirements specifications, software design document, development of a prototype for a major subsystem, delivery of a pilot implementation of the software for a subsystem or the entire system, etc.). In those cases, the above payment terms should be modified accordingly and refer to the milestones in the Implementation Schedule. The payment terms should allow the Supplier an adequate cash flow vis-à-vis the steps need to achieve an operational Information System.]</i></p> <p>(d) Services other than Training: eighty percent (80%) of the pro-rata Contract Price for services performed will be paid monthly in arrears, on submission and Procuring Entity's approval of invoices:</p> <p><i>[Note: Some Contracts may involve considerable "Services other than Training" (and services other than software customization). For instance, there could be the digitization of maps using the procured Geographical Information System (GIS), or the scanning, indexing and conversion of paper documents, or the conversion or migration of existing electronic data sets. In these cases, payment may be keyed to acceptance of intermediate deliverables</i></p>
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	<p><i>or completion of service delivery phases defined in the project implementation schedule, rather than merely to the passage of time, as illustrated. In designing this type of payment terms, the Procuring Entity has an obligation to balance and ensure consistency between its own interest to pay only against value received, the supplier's need for a reasonable cash flow, the design of the project implementation schedule, the specification of service milestones and even the process for acceptance testing of intermediate deliverables (when milestones completion would be subject to such testing).]</i></p> <p>(e) Training thirty percent (30%) of the total Contract Price for training services at the start of the full training program fifty percent (50%) of the pro-rata Contract Price for training services performed will be paid monthly in arrears, on submission and approval of appropriate invoices.</p> <p>(f) Complete System Integration ten percent (10%) of the entire Contract Price, exclusive of all Recurrent Costs, as final payment against Operational Acceptance of the System as an integrated whole.</p> <p>(g) Recurrent Costs one hundred percent (100%) of the price of the services actually delivered will be paid quarterly in arrears, on submission and Procuring Entity's approval of invoices.</p> <p>[Note: If a separate Operational Acceptance for the System as an integrated whole is not required, increase by 10% points the final payment percentages of all other goods and services above.]</p>
GCC 12.3	The Procuring Entity shall pay to the Supplier interest on the delayed payments at a rate of: [insert: "% per annum].
GCC 12.4	The Supplier will invoice the Procuring Entity 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 Kenya shillings for payment purposes - in case the two currencies are different - will be made as of the actual payment date using the exchange rate found in [insert: source of exchange rate].

8. Securities (GCC Clause 13)

GCC 13.3.1	<p>The Performance Security shall be denominated in [insert currency] for an amount equal to [insert: number] percent of the Contract Price, excluding any Recurrent Costs.</p> <p><i>[Note: The general rule is that the Performance Security is denominated in the currency or currencies of the contract or in a freely convertible currency acceptable to the Procuring Entity. It should be set as no more than ten (10) percent of the Contract Price, including Recurrent Costs during the Warranty Period. Provision of the Performance Security increases the transaction costs incurred by the successful Tenderer, which it can recover only by increasing its price. Therefore, for a simple/moderate system, Performance Security in an amount of 6-10% of the Contract Price would provide adequate protection].</i></p>
GCC 13.3.4	<p>During the Warranty Period (i.e., after Operational Acceptance of the System), the Performance Security shall be reduced to [insert: number] percent of the Contract Price, excluding any Recurrent Costs.</p> <p><i>[Note: An appropriate amount for the Performance Security for a (three-year) Warranty Period would be between one (1) and two and a half (2.5) percent of the Contract Price including Recurrent Costs for the Warranty period.]</i></p>

D. Intellectual Property

9. Copyright (GCC Clause 15)

GCC 15.3	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 15.3</i> <i>[Note: If the Procuring Entity is a corporate or commercial entity, it may choose to specify the conditions under which contractual rights would be conveyed to any Procuring Entity of the concern, or any successor entities following a group reorganization or bankruptcy or other insolvency procedures. Procuring Entities with other organizational structures may need to add other similar provisions.]</i></p>
GCC 15.4	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 15.4</i><i>[Note:</i> <i>There is a broad spectrum of strategies that the Procuring Entity can adopt regarding Intellectual Property Rights in Custom Software (and in Custom Materials). One extreme case is that the Procuring Entity retains all Intellectual Property Rights and tightly restricts what the Supplier can do with the Custom Software and information related to it. This approach may be appropriate when the Procuring Entity has highly sensitive procedures embedded in the Custom Software (such as a central bank's settlement system) or commercial competitive concerns regarding wider use of the Software, designs, or information, or where the Procuring Entity considers that it is contributing valuable know-how to the development of the Custom Software and wishes to share in future profits with the Supplier that derives from exploitation of that know-how. The other extreme case is where the Procuring Entity retains no Intellectual Property Rights in the Custom Software and only licenses its use from the Supplier. This approach is most appropriate when the Supplier wants to take advantage of the potential cost reduction in allowing the Supplier to commercialize the Custom Software (rather than sharing in future profits) and where the Procuring Entity has no proprietary or commercial concerns regarding its reuse.</i></p> <p><i>A wide variety of intermediate arrangements can be appropriate, depending on the circumstances. These would entail variations of what the Procuring Entity is entitled to do with the software, designs, and related information (and under what conditions). These rights and obligations include the following: (i) duplicating and using the software on different equipment, such as back-ups, additional computers, replacements, upgraded units, etc.; (ii) transferring the license or sublicensing the software for other entities to use, modify, develop, commercialize, etc.; (iii) sharing proprietary information regarding the Custom Software with various parties. The Procuring Entity's obligations and rights (and the conditions under which those rights and obligations apply) can vary substantially also. These include: (i) what the Procuring Entity must and can do with the CASE files, Source Code, and executable code of the Custom Software; (ii) sharing, reselling, and otherwise providing access to the software, designs and related information; and (iii) auditing for license compliance.</i></p> <p><i>The Supplier's rights in relation to the Custom Software may:</i></p> <ul style="list-style-type: none"><i>• Be limited to use in order to support the Procuring Entity; or</i><i>• Extend to commercial exploitation by re-licensing to third-party customers.</i> <p><i>If the Supplier's rights extend to commercial exploitation, they may be limited as follows:</i></p> <ul style="list-style-type: none"><i>• There may be an interim period, designed to protect the Procuring Entity's competitive edge, during which the Supplier is not permitted to exploit commercially; and/or</i><i>• The Supplier may be prohibited from licensing the Custom Software to certain categories of customer (for example, direct competitors of the Procuring Entity) or in certain territories (for example, Kenya), either for a limited period or indefinitely; and/or</i><i>• The Supplier may be required to pay royalties to the Procuring Entity when it licenses third parties to use the Custom Software.</i> <p><i>The first two of these categories of limitation are intended to protect the Procuring Entity's competitive edge. The third is intended to allow the Procuring Entity to share in future profits made by the Supplier through exploitation of the Custom Software. Royalty arrangements will have to be backed up by obligations to report to the Procuring Entity regarding future sales of products to which royalties apply and audit rights so that the</i></p>

Procuring Entity can check that the Supplier's reports are accurate. Clearly, if royalty arrangements are put in place, the value of the Custom Software to the Supplier is reduced, so the Procuring Entity may not benefit from an up-front cost saving.

The Procuring Entity's rights in relation to the Custom Software may also be restricted to "user" rights or extended to commercial exploitation. If the Procuring Entity is to be treated as a mere user of the Custom Software, it might accept restrictions on use similar to those imposed in relation to the Standard Software (indeed, the default position in the GCC is that the Custom Software will be licensed to the Procuring Entity on exactly the same terms as the Standard Software if the Intellectual Property Rights in the Custom Software does not vest in the Procuring Entity). It may, however, also expect to have access to, and a right to use, CASE files and Source Code to the Custom Software (whereas, at best, Source Code to the Standard Software is likely to be deposited in escrow).

If the Procuring Entity is to be permitted to exploit the Custom Software commercially, its exploitation rights may be limited in similar ways to the ways in which the Procuring Entity's own usage rights to the Custom Software may be limited.

It may be appropriate to apply different arrangements to various elements of the Custom Software, according to their commercial sensitivity and potential for exploitation and the degree of competitive advantage that they afford to the Procuring Entity.

The various possible arrangements can be achieved by a variety of contractual mechanisms. Ownership of Intellectual Property Rights in the Custom Software may vest the Supplier or the Procuring Entity, with the owner of those rights granting an appropriate license to the other party. This license may be subject to various degrees of exclusivity, depending on the desired commercial outcome (for example, the Supplier may own the Intellectual Property Rights in the Custom Software by granting to the Procuring Entity a license that is exclusive, in relation to exploitation in Kenya, for two years).

If an exclusive license is to be granted, competition law issues will need to be considered in some jurisdictions.

Each is sufficiently different as to render virtually all sample text inappropriate in numerous cases. Accordingly, the Procuring Entity of Custom Software will, in most instances, require the services of an appropriately skilled lawyer to draft SCC for the rights and obligations regarding Custom Software (more particularly, the variety of rights and obligations that potentially apply to different items of Custom Software).]

GCC 15.5

There are no Special Conditions of Contract applicable to GCC Clause 15.5

[Note: Special software escrow arrangements are generally needed in relation to Contracts for the supply of Software, particularly Application Software, where there is concern about the ability of the Supplier to provide ongoing support throughout the life of the System. The protection provided by an escrow arrangement, however, should be weighed against the costs of administering it. The actual language of the escrow contract will vary depending on the laws of the country in which the escrow deposit is to be made (which may be Kenya or another country with a suitable legal regime) and the escrow agent selected (escrow agents generally have their own standard form contracts). Provisions may cover:

(i) the Supplier's obligations to deliver the Source Code to the escrow agent and make replacement deposits to ensure that the Source Code is up to date;

(ii) the Supplier's warranties that the Source Code is at all times capable of being used to generate the latest version of the executable code to the relevant Software in use by the Procuring Entity and suitable to enable the Procuring Entity to support and develop the Software;

(iii) the escrow agent's obligations to keep the Source Code secure and confidential;

(iv) the escrow agent's obligations in relation to verification of the Source Code (to ensure that it is Source Code and that it is capable of generating the executable code);

(v) the obligations of the Supplier and the Procuring Entity in relation to payment of the escrow agent's fee;

(vi) the escrow agent's right and obligation to release the Source Code to the Procuring Entity in certain specified "release events" (such as bankruptcy or insolvency of the Supplier or the Supplier's failure to make deposits or to support the Software);

	<p>(vii) limitations and exclusions of the escrow agent’s liability;</p> <p>(viii) the circumstances in which the escrow arrangement will terminate, and what will happen to the deposited Source Code on termination; and</p> <p>(ix) confidentiality undertakings to be given by the Procuring Entity on release of the Source Code.]</p>
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10. Software License Agreements (GCC Clause 16)

GCC 16.1 (a) (iv)	<p>There are no Special Conditions of Contract applicable to GCC Clause 16.1 (a) (iv) [Note: In the interest of soliciting lower Tender prices, Procuring Entities may wish to consider defining limitations in the use of the software. For example:</p> <p>(a) restrictions on the number of records in particular categories that may be held by the System;</p> <p>(b) restrictions on the numbers of transactions in particular categories that may be processed by the System in any day, week, month, or other specified period;</p> <p>(c) restrictions on the number of persons who may be authorized to use the System at any time;</p> <p>(d) restrictions on the number of persons who may access the System simultaneously at any time; or</p> <p>(e) restrictions on the number of workstations that may be connected to the System at any time.</p> <p>Note that, from the point of view of the Procuring Entity, if restrictions of any of these kinds (or any similar kind) are to be imposed and there is a real likelihood that the limits may be reached, it would be better to specify additional license fees that are payable when the limits are reached rather than imposing an absolute prohibition on exceeding the limits.]</p>
GCC 16.1 (b) (vi)	<p>There are no Special Conditions of Contract applicable to GCC Clause 16.1 (b) (vi) [Note: The Procuring Entity may also wish to specify, for example, that such entities shall be not direct competitors of the Supplier.]</p>
GCC 16.1 (b) (vii)	<p>There are no Special Conditions of Contract applicable to GCC Clause 16.1 (b) (vii) [Note: The Procuring Entity may, for example, wish to specify the members of the Procuring Entity’s business group that are not direct competitors of the Supplier and that the Procuring Entity must obtain and provide the Supplier written evidence from such parties that such parties will adhere by the terms of the Contract as if they were party to the Contract.]</p>
GCC 16.2	<p>There are no Special Conditions of Contract applicable to GCC Clause 16.2 [Note: If on-site audits are acceptable, the Procuring Entity may specify conditions on the duration and number of audits per year; the hours or days during which audits may be conducted; the categories of software subject to audit; the procedures for access to Procuring Entity’s hardware or software; the number and affiliation of individual auditors; the timing and terms of advance notice; the indemnity by Supplier for losses, liabilities, and costs incurred by the Procuring Entity as a direct result of the audit; etc.]</p>

11. Confidential Information (GCC Clause 17)

GCC 17.1	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 17.1</i> <i>[Note: The Procuring Entity may wish to give members of its business group or related agencies, for example, access to certain specific types of technical and / or financial information it obtains or develops with respect to the Supplier and its Information Technologies. The SCC covering such an exemption should define the individuals covered and generally provide that the Procuring Entity will ensure that such parties are aware of and will adhere by the Procuring Entity’s obligations under GCC Clause 17 as if such party were a party to the Contract in place of the Procuring Entity.</i></p> <p><i>if necessary and appropriate, specify: persons, topics, and conditions for which the confidentiality clause does not apply.]</i></p>
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E. Supply, Installation, Testing, Commissioning, and Acceptance of the System

12. Representatives (GCC Clause 18)

GCC 18.1	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 18.1</i> <i>[Note: If appropriate specify additional powers or limitations.]</i></p> <p>The Procuring Entity’s Project Manager shall have the following additional powers and / or limitations to his or her authority to represent the Procuring Entity in matters relating to the Contract <i>[state necessary and appropriate clauses].</i></p>
GCC 18.2.2	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 18.2.2</i> <i>[Note: If appropriate specify additional powers or limitations.]</i></p> <p>The Supplier’s Representative shall have the following additional powers and / or limitations to his or her authority to represent the Supplier in matters relating to the Contract <i>[state necessary and appropriate clauses].</i> <i>[Note: Any additional powers or limitations of the Supplier’s Representative will, of necessity, be subject to discussions at Contract finalization and the SCC amended accordingly.]</i></p>

13. Project Plan (GCC Clause 19)

GCC 19.1	<p>Chapters in the Project Plan shall address the following subject:</p> <ul style="list-style-type: none"> <i>(a) Project Organization and Management Sub-Plan, including management authorities, responsibilities, and contacts, as well as task, time and resource-bound schedules (in GANTT format);</i> <i>(b) Implementation Sub-Plan;</i> <i>(c) Training Sub-Plan;</i> <i>(d) Testing and Quality Assurance Sub-Plan;</i> <i>(e) Warranty Defect Repair and Technical Support Service Sub-Plan</i> <i>Further details regarding the required contents of each of the above chapters are contained in the Technical Requirements, (insert: reference)].</i>
GCC 19.6	<p><i>The Supplier shall submit to the Procuring Entity:</i></p> <ul style="list-style-type: none"> <i>(i) monthly inspection and quality assurance reports</i> <i>(ii) monthly training participants test results</i> <i>(iii) monthly log of service calls and problem resolutions</i>

14. Design and Engineering (GCC Clause 21)

GCC 21.3.1	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 21.3.1.</i></p> <p><i>[Note: If necessary and appropriate, specify the Controlling Technical Documents (i.e., document that must be approved by the Procuring Entity’s Project Manager before any relevant downstream work can be undertaken by the Supplier).]</i></p> <p><i>[The Supplier shall prepare and furnish to the Project Manager the following documents for which the Supplier must obtain the Project Manager’s approval before proceeding with work on the System or any Subsystem covered by the documents. [state “none” or specify, for example:</i></p> <ul style="list-style-type: none"> <i>(*) detailed site surveys;</i> <i>(*) final Subsystem configurations;</i> <i>(*) etc.</i>
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15. Product Upgrades (GCC Clause 23)

GCC 23.4	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 23.4.</i></p> <p><i>[Note: Mandating that all new versions, releases, and updates of Standard Software will be passed on for free during the Warranty Period is a comprehensive requirement, the benefits of which must be balanced against the perceived costs in the mind of the successful Tenderer at the time of tender submission. To require the Supplier to provide for free only new releases and updates, but agreeing that it would be reimbursed for the supply of complete new versions might be more cost-effective. For example, this may be particularly appropriate when the Procuring Entity would not benefit from costs of migrating its business applications to an entirely new version of the underlying database system if such a version came out during a three Warranty Period. Another approach may be to shorten the time period during which updates, etc., would have to be supplied for free, for example, to only the first year of the Warranty Period; or alternatively, a narrower set of Standard Software could be covered.]</i></p>
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16. Inspections and Tests (GCC Clause 25)

GCC 25	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 25.</i></p> <p><i>[Note: Procuring Entity’s may wish to consider employing qualified inspectors to inspect and certify the Information Technologies, Materials, and other Goods prior to shipment. This can minimize the number of cases where the Procuring Entity receives shipped goods that do not conform to the Technical Requirements and shorten the repair or replacement time.]</i></p>
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17. Commissioning and Operational Acceptance (GCC Clause 27)

GCC 27.2.1	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 27.2.1.</i></p> <p><i>[Note: Few aspects of Information Technology procurement are more critical to the successful implementation of a System than the specification of Operational Acceptance Tests. It is imperative that the Procuring Entity prepare the specification for these tests as carefully as the overall specification of the System itself. The description should be sufficiently comprehensive, unambiguous, and verifiable to result in proper operation of the System with minimal confusion or controversy between the Procuring Entity and its management, the Supplier, and any users.</i></p> <p><i>In addition, where the Contract covers the Installation and acceptance testing of a number of Subsystems, the nature of the acceptance tests required for each Subsystem, and for the final tests to be carried out on the entire System once all Subsystems have been completed, needs to be clearly specified here and/or in the Technical Requirements and which party bears responsibility for correcting any defects discovered during the final tests of the entire System needs to be identified.]</i></p>
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F. Guarantees and Liabilities

18. Operational Acceptance Time Guarantee (GCC Clause 28)

GCC 28.2	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 28.2.</i> <i>[Note: Typical percentages are, respectively, one half of one percent (0.5%) per week and ten percent (10%) of the total. In some instances, the Procuring Entity may wish to consider specifying liquidated damages on a daily basis. If so, specify this in the SCC].</i></p>
GCC 28.3	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 28.3.</i> <i>[Note: Establishing more milestones for liquidated damages may provide a somewhat greater degree of control and assurances regarding the pace of the implementation of the System. However, this will come at a price of increased complexity of Contract management and increased perceptions of financial risks on the part of Tenderers. This most likely will lead to higher tender prices. In most cases, Operational Acceptance should be the most appropriate financial control for ensuring the timeliness of implementation, since it captures the impact of earlier delays and is, in the final analysis, the milestone that truly matters. Whatever milestones are selected, it is critical that the Implementation Schedule precisely specify what Subsystems or other components are covered and when the milestone is set. These, of course, can be refined and revised through the Agreed Project Plan.]</i></p>

19. Defect Liability (GCC Clause 29)

GCC 29.1	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 29.1.</i> <i>[Note: Software is never completely error or “bug” free. Thus, the Procuring Entity may wish to refine or to limit the Supplier’s warranty obligations. Properly done, this can reduce Tenderer’s perceptions of financial risk and help lower tender prices. However, the Procuring Entity should balance the potential savings against the risks to reliable and effective operation of the System and the related costs to the Procuring Entity. These tradeoffs are very specific to the type of the System and its uses. These tradeoffs are also changing very rapidly with technological development. The Procuring Entity should consult experts in the relevant areas for an up-to-date assessment of the risks and the most appropriate text to express any such exceptions and limitations.]</i></p>
GCC 29.4	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 29.4.</i> <i>[Note: When defining the Warranty period, Procuring Entity should be careful to recognize that services such as resident engineer support, new software releases and end-user help desk support are not typically included in commercial warranties and should be priced separately in the Recurrent Cost Table].</i></p>
GCC 29.10	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 29.10</i> <i>[Note: Typically, the Procuring Entity should develop a set of response times for different degrees of seriousness of the defects and/or categories of IT and/or specific Subsystems. The most appropriate and economical set of response times are highly dependent on the specific System, its use, and the relevant conditions in Kenya.</i></p> <p><i>The GCC specifies that the Supplier must commence work on warranty defects within a maximum of two weeks; else the Procuring Entity may contract-in such services at the Supplier’s expense. The Procuring Entity may wish to shorten or lengthen this period in the SCC. The time specified must strike a reasonable balance between the response time the typical qualified Supplier can physically achieve and the importance of maintaining continued System operation. If too short a time period is specified, Suppliers will need to protect themselves by adding a contingency to their tender prices.]</i></p>

20. Functional Guarantees (GCC Clause 30)

GCC 30	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 30.</i> <i>[Note: In the event that Information Systems and Technologies would have to conform to other calendar system(s), here would be the place to specify related requirements in addition to, or in variation of, the requirements in GCC clause 30.2.]</i></p>
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G. Risk Distribution

21. Insurances (GCC Clause 37)

GCC 37.1 (e)	<p>The Supplier shall obtain Third-Party Liability Insurance in the amount of <i>[insert: monetary value]</i> with deductible limits of no more than <i>[insert: monetary value]</i>. The insured Parties shall be <i>[list insured parties]</i>. The Insurance shall cover the period from <i>[insert: beginning date, relative to the Effective Date of the Contract]</i> until <i>[insert: expiration date, relative to the Effective Date of the Contract or its completion]</i>.</p>
GCC 37.1 (e)	<p><i>There are no Special Conditions of Contract applicable to GCC Clause 37.1 (e).</i></p> <p><i>[Note: Many countries have statutory requirements for various insurances. These should be reviewed with the Procuring Entity’s legal department.</i></p> <p><i>For example:</i></p> <p><i>The Supplier shall obtain Worker’s Compensation Insurance in accordance with the statutory requirements of [insert: Kenya]. Specifically: [insert: requirements]. The Insurance shall cover the period from [insert: beginning date, relative to the Effective Date of the Contract] until [insert: expiration date, relative to the Effective Date of the Contract or its completion].</i></p> <p><i>The Supplier shall obtain Employer’s Liability Insurance in accordance with the statutory requirements of [insert: Kenya]. Specifically: [insert: requirements]. The Insurance shall cover the period from [insert: beginning date, relative to the Effective Date of the Contract] until [insert: expiration date, relative to the Effective Date of Contract or its completion].</i></p>

H. CHANGE IN CONTRACT ELEMENTS

22. Changes to the System (GCC Clause 39)

GCC 39.4.3	<p>Value Engineering</p> <p>If the value engineering proposal is approved by the Procuring Entity the amount to be paid to the Supplier shall be ___% (insert appropriate percentage. The percentage is normally up to 50%) of the reduction in the Contract Price.</p>
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I. Settlement of Disputes

23. Settlement of Disputes (GCC Clause 43)

GCC 43.1.4	<p>The Appointing Authority for the Adjudicator is: <i>[insert: the name of an impartial international technical organization in the information technology sector, or, if no Adjudicator is used in this Contract Agreement or no organization has been identified and agreed to serve as Appointing Authority for the Adjudicator, state “not applicable.”]</i>.</p>
GCC 43.2.3	<p>If the Supplier is from outside Kenya arbitration proceedings shall be conducted in accordance with the rules of arbitration of <i>[select one of the following: UNCITRAL / the International Chamber of Commerce (ICC) / the Arbitration Institute of the Stockholm Chamber of Commerce / the London Court of International Arbitration]</i>. These rules, in the version in force at the time of the request for arbitration, will be deemed to form part of this Contract.</p> <p>If the Supplier is a national of Kenya, any dispute between the Procuring Entity and a Supplier arising in connection with the present Contract shall be referred to arbitration in accordance with the laws of Kenya.</p>

SECTION VIII - CONTRACT FORMS

Notes to the Procuring Entity on preparing the Contract Forms.

Performance Security: Pursuant to GCC Clause 13.3, the successful Tenderer 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 Tenderer 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 Procuring Entity 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 Procuring Entity wishes to amend the recommended procedures and/ or certificates, it may do so before release of the tendering document to potential Tenderers.

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 tendering document unaltered. If the Procuring Entity wishes to amend the recommended procedures and/ or certificates, it may do so before release of the tendering document.

Notes to Tenderers on working with the Sample Contractual Forms

The following forms are to be completed and submitted by the successful Tenderer following notification of award: (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 Tenderer's Tender Price Schedules are attached to the Agreement. These contain corrections and adjustments to the Supplier's tender prices to correct errors, adjust the Contract Price to reflect - if applicable - any extensions to tender validity beyond the last day of original tender validity plus 56 days, etc.

Performance Security: Pursuant to GCC Clause 13.3, the successful Tenderer is required to provide the Performance Security in the form contained in this section of these tendering documents and in the amount specified in accordance with the SCC.

Advance Payment Security: Pursuant to GCC Clause 13.2, the successful Tenderer 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 these tendering documents or another form acceptable to the Procuring Entity. If a Tenderer wishes to propose a different Advance Payment Security form, it should submit a copy to the Procuring Entity promptly for review and confirmation of acceptability before the tender submission deadline.

The Procuring Entity 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 tendering documents for the information of Tenderers.

1. Notification of Intention to Award

[This Notification of Intention to Award shall be sent to each Tenderer that submitted a Tender.]

[Send this Notification to the Tenderer's Authorized Representative named in the Tenderer Information Form]

1) For the attention of Tenderer'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 Tenderers. The Notification must be sent to all Tenderers simultaneously. This means on the same date and as close to the same time as possible.]

DATE OF TRANSMISSION: This Notification is sent by: [email/fax] on [date] (local time)

Notification of Intention to Award

[Procuring Entity]: [insert the name of the Procuring Entity]

Project: [insert name of project]

Contract title: [insert the name of the contract]

Country: [insert country where ITT is issued]

ITT No: [insert ITT 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 Tender, and/ or
- b) Submit a Procurement-related Complaint in relation to the decision to award the contract.

i) The successful Tenderer

Name:	[insert name of successful Tenderer]
Address:	[insert address of the successful Tenderer]
Contract price:	[insert contract price of the successful Tenderer]
Total combined score:	[insert the total combined score of the successful Tenderer]

2) Other Tenderers [INSTRUCTIONS: insert names of all Tenderers that submitted a Tender. If the Tender's price was evaluated include the evaluated price as well as the Tender price as read out.]

Name of Tenderer	Technical Score (If applicable)	Tender price	Evaluated Tender Cost	Combined Score (if applicable)
[insert name]	[insert Technical score]	[insert Tender price]	[insert evaluated cost]	[insert combined score]
[insert name]	[insert Technical score]	[insert Tender price]	[insert evaluated cost]	[insert combined score]
[insert name]	[insert Technical score]	[insert Tender price]	[insert evaluated cost]	[insert combined score]
[insert name]	[insert Technical score]	[insert Tender price]	[insert evaluated cost]	[insert combined score]
[insert name]	[insert Technical score]	[insert Tender price]	[insert evaluated cost]	[insert combined score]

3) Reason/s why your Tender was unsuccessful [Delete if the combined score already reveals the reason]

[INSTRUCTIONS; State the reason/s why this Tenderer's Tender was unsuccessful. Do NOT include: (a) a point by point comparison with another Tenderer's Tender or (b) information that is marked confidential by the Tenderer in its Tender.]

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 Tender. 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 Tenderer, 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 Procuring Entity] **Email address:** _____ [insert email address] **Fax number:** _____ [insert fax number] **delete if not used**

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 Tenderer, 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 Procuring Entity] **Email address:** _____ [insert email address]

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. Further information:

For more information refer to the Public Procurement and Disposals Act 2015 and its Regulations available from the Website info@ppra.go.ke or complaints@ppra.go.ke.

In summary, there are four essential requirements:

1. You must be an 'interested party'. In this case, that means a Tenderer who submitted a Tender 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 Procuring Entity:

Signature: _____

Name: _____

Title/position: _____

Telephone: _____

Email: _____

2 REQUEST FOR REVIEW

FORM FOR REVIEW(r.203(1))

PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

APPLICATION NO.....OF.....20.....

BETWEEN

.....**APPLICANT**

AND

.....**RESPONDENT (Procuring Entity)**

Request for review of the decision of the..... (Name of the Procuring Entity ofdated the...day of20.....in the matter of Tender No.....of20..... for(Tender description).

REQUEST FOR REVIEW

I/We.....,the above named Applicant(s), of address: Physical address.....P. O. Box No..... Tel. No.....Email, hereby request the Public Procurement Administrative Review Board to review the whole/part of the above mentioned decision on the following grounds , namely:

- 1.
- 2.

By this memorandum, the Applicant requests the Board for an order/orders that:

- 1.
- 2.

SIGNED(Applicant) Dated on.....day of/...20.....

FOR OFFICIAL USE ONLY Lodged with the Secretary Public Procurement Administrative Review Board on.....day of20.....

SIGNED

Board Secretary

3 Letter of Award

_____) _____

To: _____

This is to notify you that your Tender dated _____ for execution of the _____ for the Contract Price in the aggregate of _____, as corrected and modified in accordance with the Instructions to Tenderers is hereby accepted by our Agency.

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

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract Agreement

4 Contract Agreement

THIS CONTRACT AGREEMENT is made on the*[insert: ordinal]* day of *[insert: month]*, *[insert: year]*. BETWEEN (1) *[insert: Name of Procuring Entity]*, a *[insert: description of type of legal entity, for example, an agency of the Department of.....]* of the Government of Kenya, or corporation incorporated under the laws of Kenya and having its principal place of business at *[insert: address of Procuring Entity]* (here in after called “the Procuring Entity”), 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]* (here in after called “the Supplier”).

WHEREAS the Procuring Entity 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 HERE BY AGREED as follows:

Article 1. Contract Documents

1. Contract Documents (Reference GCC Clause 1.1(a) (ii))

The following documents shall constitute the Contract between the Procuring Entity 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 tender and original Price Schedules
- f) *[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 prescribed to them in the General Conditions of Contract.

Article 2.

Contract Price and Terms of Payment

- 2.1 Contract Price (Reference GCC Clause 1.1(a)(viii) and GCC Clause 11) The Procuring Entity here by 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 of foreign currency C in words], [insert: amount in figures], [insert: amount of local currency in words], [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.

Article 3.

Effective Date for Determining Time for Operational Acceptance

- 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 Procuring Entity and the Supplier;
- b) The Supplier has submitted to the Procuring Entity the performance security and the advance payment security, in accordance with GCC Clause 13.2 and GCC Clause 13.3;

- c) The Procuring Entity has paid the Supplier the advance payment, in accordance with GCC Clause 12; 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.
Appendixes

- 4.1 The Appendixes listed below shall be deemed to form an integral part of this Contract Agreement.
- 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 Procuring Entity and the Supplier have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

i) For and on behalf of the Procuring Entity

Signed:

in the capacity of *[insert: title or other appropriate designation]*

in the presence of _____

ii) For and on behalf of the Supplier

Signed:

in the capacity of *[insert: title or other appropriate designation]*

in the presence of _____

5 Appendices

a) 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.*]

b) 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 Procuring Entity and the Supplier, an Adjudicator will be appointed by the Appointing Authority named in the SCC.

e) **Appendix 5. Custom Materials**

The follow table specifies the Custom Materials the Supplier will provide under the Contract.

Custom Materials

f) 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 Tender. These Revised Price Schedules reflect any corrections or adjustments to the Supplier's tender price, pursuant to the ITT Clauses 30.3 and 38.2.

g) 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).

6 Performance and Advance Payment Security Forms

5.1 Performance Security Form (Demand Bank Guarantee)

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

[Guarantor Form head or SWIFT identifier code]

[insert: Bank's Name, and Address of Issuing Branch or Office]

Beneficiary: *[insert: Name and Address of Procuring Entity]*

Date: *[insert: date]*

PERFORMANCE GUARANTEE No.: *[insert: Performance Guarantee Number]* **Guarantor:**
..... *[Insert name and address of place of issue, unless indicated in the Form head.]*

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 here by 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 showgrounds or reasons for their demand or the sum specified there in.

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) 4 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 guarantee)]* from the date of the Operational Acceptance Certificate for the System², 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.

¹The 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 Procuring Entity.

²In 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.

5.2 Advance Payment Security

Demand Bank Guarantee

[Guarantor Form head or SWIFT identifier code]

Beneficiary: *[insert: Name and Address of Procuring Entity]*

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 Form head]*

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]* (here in after 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]* (here in after 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, here by 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 credited to the Applicant on its account number.....*[insert number]*at.....*[insert name and address of Applicant's bank]*.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Applicant as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety

(90) percent of the Accepted Contract Amount, has been certified for payment, or on the.....*[insert day]* day of.....*[insert month]*, 2 *[insert year]*, whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

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

[signature(s)]

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

7 Installation and Acceptance Certificates *(insert format)*

Installation Certificate

Date: *[insert: date]*

ITT: *[insert: title and number of ITT]*

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 Procuring Entity]* (hereinafter the “Procuring Entity”) 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 Form 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 Procuring Entity

Signed:

Date:

in the capacity of:*[state: “Project Manager” or state the title of a higher-level authority in the Procuring Entity's organization]*

6.2 Operational Acceptance Certificate

Date:[insert: date]

ITT:[insert: title and number of ITT]

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 Procuring Entity] (hereinafter the “Procuring Entity”) 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 Procuring Entity here by 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 Form 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 Procuring Entity

Signed:

Date:

in the capacity of:[state: “Project Manager” or higher-level authority in the Procuring Entity's organization]

7. Change Order Procedures and Forms

Date:[insert: date]

ITT:[insert: title and number of ITT]

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 Procuring Entity.

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

- 7.1 Request for Change Proposal Form
- 7.2 Change Estimate Proposal Form
- 7.3 Estimate Acceptance Form
- 7.4 Change Proposal Form
- 7.5 Change Order Form
- 7.6 Application for Change Proposal Form

7.1 Request for Change Proposal Form

(Procuring Entity's Form head)

Date:[insert: date]

ITT:[insert: title and number of ITT]

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 Form.

1. Title of Change: **[insert: title]**
2. Request for Change No./Rev.: **[insert: number]**
3. Originator of Change: **[select Procuring Entity / 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 Procuring Entity

Signed:

Date:

in the capacity of:[state: **"Project Manager" or higher-level authority in the Procuring Entity's organization**]

7.2 Change Estimate Proposal Form

(Supplier's Form head)

Date:[insert: date]

ITT:[insert: title and number of ITT]

Contract:[insert: name of System or Subsystem and number of Contract]

To:[insert: name of Procuring Entity 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 other higher-level authority in the Supplier's organization]

7.3 Estimate Acceptance Form

(Procuring Entity's Form head) Date:[insert: date]

ITT.....[insert: title and number of ITT]

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:

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 Procuring Entity

Signed:

Date:

in the capacity of:[state: "Project Manager" or higher-level authority in the Procuring Entity's organization]

7.4 Change Proposal Form

(Supplier's Form head)

Date:[insert: date]

ITT:[insert: title and number of ITT]

Contract:[insert: name of System or Subsystem and number of Contract]

To:[insert: name of Procuring Entity and address]

Attention:[insert: name and title]

Dear Sir or Madam:

In response to your Request for Change Proposal No. [insert: number], we here by submit our proposal as follows:

1. Title of Change: [insert: name]
2. Change Proposal No./ Rev.: [insert: proposal number /revision]
3. Origin at or of Change: [select: Procuring Entity /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 Procuring Entity
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 other higher-level authority in the Supplier's organization]

7.5 Change Order Form

(Procuring Entity's Form head)

Date:*[insert: date]*

ITT:*[insert: title and number of ITT]*

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 approve the Change Order for the work specified in Change Proposal No. *[insert: number]*, and agree to adjust the Contract Price, Time for Completion, and/ or other conditions of the 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. Origin at or of Change: *[select: Procuring Entity / 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 Procuring Entity

Signed:

Date:

in the capacity of:*[state: "Project Manager" or higher-level authority in the Procuring Entity's organization]*

For and on behalf of the Supplier

Signed:

Date:

in the capacity of:*[state "Supplier's Representative" or higher-level authority in the Supplier's organization]*

7.6 Application for Change Proposal Form

(Supplier's Form head)

Date:[insert: date]

ITT:[insert: title and number of ITT]

Contract:[insert: name of System or Subsystem and number of Contract]

To:[insert: name of Procuring Entity 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 higher-level authority in the Supplier's organization]

**7.7 BENEFICIAL OWNERSHIP DISCLOSURE FORM
(Amended and issued pursuant to PPRA CIRCULAR No. 02/2022)**

INSTRUCTIONS TO TENDERERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE FORM

This Beneficial Ownership Disclosure Form ("Form") is to be completed by the successful tenderer pursuant to Regulation 13 (2A) and 13 (6) of the Companies (Beneficial Ownership Information) Regulations, 2020. In case of joint venture, the tenderer 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 Tenderer is any natural person who ultimately owns or controls the legal person (tenderer) or arrangements or a natural person on whose behalf a transaction is conducted, and includes those persons who exercise ultimate effective control over a legal person (Tenderer) or arrangement.

Tender Reference No.: _____ [insert identification no]

Name of the Tender Title/Description: _____ [insert name of the assignment]

to: _____ [insert complete name of Procuring Entity]

In response to the requirement in your notification of award dated ___ [insert date of notification of award] to furnish additional information on beneficial ownership: _____ [select one option as applicable and delete the options that are not applicable]

I) We here by provide the following beneficial ownership information.

Details of beneficial ownership

	Details of all Beneficial Owners		% of shares a person holds in the company Directly or indirectly	% of voting rights a person holds in the company	Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer (Yes / No)	Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)
1.	Full Name		Directly: ----- % of shares	Directly: % of voting rights	1. Having the right to appoint a majority of the board of the directors or an equivalent governing body of the Tenderer: Yes ----No---- 2. Is this right held directly or indirectly?: Direct: Indirect:	1. Exercises significant influence or control over the Company body of the Company (tenderer) Yes ----No---- 2. Is this influence or control exercised directly or indirectly? Direct: Indirect:
	National identity card number or Passport number					
	Personal Identification Number (where applicable)		Indirectly: ----- % of shares	Indirectly: ----- % of voting rights		
	Nationality					
	Date of birth [dd/mm/yyyy]					
	Postal address					
	Residential address					
	Telephone number					
	Email address					
Occupation or profession						
2.	Full Name		Directly: ----- % of shares	Directly: % of voting rights	1. Having the right to appoint a majority of the board of the directors or an	1. Exercises significant influence or control over
	National identity card number or Passport number					

Details of all Beneficial Owners		% of shares a person holds in the company Directly or indirectly	% of voting rights a person holds in the company	Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer (Yes / No)	Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)
Personal Identification Number (where applicable)		Indirectly: ----- % of shares	Indirectly: ----- % of voting rights	equivalent governing body of the Tenderer: Yes ----No---- 2. Is this right held directly or indirectly?: Direct: Indirect:	the Company body of the Company (tenderer) Yes ----No---- 2. Is this influence or control exercised directly or indirectly? Direct: Indirect:
Nationality(ies)					
Date of birth [dd/mm/yyyy]					
Postal address					
Residential address					
Telephone number					
Email address					
Occupation or profession					
3.					
e.t					
.c					

II) Am fully aware that beneficial ownership information above shall be reported to the Public Procurement Regulatory Authority together with other details in relation to contract awards and shall be maintained in the Government Portal, published and made publicly available pursuant to Regulation 13(5) of the Companies (Beneficial Ownership Information) Regulations, 2020. (Notwithstanding this paragraph Personally Identifiable Information in line with the Data Protection Act shall not be published or made public). *Note that Personally Identifiable Information (PII) is defined as any information that can be used to distinguish one person from another and can be used to deanonymize previously anonymous data. This information includes National identity card number or Passport number, Personal Identification Number, Date of birth, Residential address, email address and Telephone number.*

III) In determining who meets the threshold of who a beneficial owner is, the Tenderer must consider a natural person who in relation to the company:

- (a) holds at least ten percent of the issued shares in the company either directly or indirectly;
- (b) exercises at least ten percent of the voting rights in the company either directly or indirectly;
- (c) holds a right, directly or indirectly, to appoint or remove a director of the company; or
- (d) exercises significant influence or control, directly or indirectly, over the company.

IV) What is stated to herein above is true to the best of my knowledge, information and belief.

Name of the Tenderer:*[insert complete name of the Tenderer]_____

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

Designation of the person signing the Tender: [insert complete title of the person signing the Tender]

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

Date this [insert date of signing] day of..... [Insert month], [insert year]

Bidder Official Stamp