



**REPUBLIC OF KENYA**

**MINISTRY OF EDUCATION**

**THE PRINCIPAL/ BOG SECRETARY  
BUNGOMA NORTH TECHNICAL AND VOCATIONAL COLLEGE  
PO BOX 72 -50211  
NAITIRI**

**TENDER NO.: BNTVC/T/2023-2024/2  
THE PROPOSED CONSTRUCTION OF AGRICULTURAL ENGINEERING COMPLEX AT  
BUNGOMA NORTH TVC – PHASE 1**

**CLOSING DATE: 3<sup>rd</sup> MAY 2024 AT  
10.00 AM**

**SUBMIT THREE COPIES  
(ONE ORIGINAL AND TWO COPIES)**

**APRIL, 2024**



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## INVITATION TO TENDER

**PROCURING ENTITY: BUNGOMA NORTH TECHNICAL & VOCATIONAL COLLEGE**  
**P.O. BOX 72 - 50211**  
**NAITIRI**

**TENDER NO.: BNTVC/T/2023-2024/2**

**PROJECTNAME: Proposed Construction of Agricultural Engineering Complex at Bungoma North TVC – Phase 1**

1. The **Bungoma North Technical & Vocational College** invites sealed tenders for the **PROPOSED CONSTRUCTION OF AGRICULTURAL ENGINEERING COMPLEX AT BUNGOMA NORTH TVC – PHASE 1**
2. Qualified and interested tenderers may obtain further information and inspect the Tender Documents during office hours [ *i.e. 0800 to 1700 hours*] at the Procurement Office
3. A complete set of tender documents may be purchased or obtained by interested tenders upon payment of a non-refundable fees Of Kenya Shillings 2000 in Banker's Cheque and payable to the address given below: Tender documents may be obtained electronically from the Website(s) [www.bungomanorthtvc.ac.ke](http://www.bungomanorthtvc.ac.ke) or [www.tenders.go.ke](http://www.tenders.go.ke) Tender documents obtained electronically will be free of charge.
4. Tender documents may be viewed and downloaded for free from the website [www.bungomanorthtvc.ac.ke](http://www.bungomanorthtvc.ac.ke) or [www.tenders.go.ke](http://www.tenders.go.ke) Tenderers who download the tender document must forward their particulars immediately to [procurement@bungomanorthtvc.ac.ke](mailto:procurement@bungomanorthtvc.ac.ke) to facilitate any further clarification or addendum.
5. Tenders shall be quoted be in Kenya Shillings and shall include all taxes. Tenders shall remain valid for (150) days from the date of opening of tenders.
6. All Tenders must be accompanied by a Bid Bond of Kshs 7,000,000.00
7. Prices quoted should be net inclusive of all taxes and delivery must be in Kenya Shillings and shall remain valid for (150) days from the closing date of the tender.
8. The Tenderer shall chronologically serialize all pages of the tender documents submitted.
9. Completed tenders must be delivered to the address below:

**PRINCIPAL/BOG SECRETARY**

**BUNGOMA NORTH TECHNICAL & VOCATIONAL COLLEGE**  
**P.O. BOX 72 - 50211**  
**NAITIRI**

on or before **10.00 a.m.** on the **3<sup>rd</sup> May, 2024**. Electronic Tenders will not be permitted.

Tenders will be opened immediately after the deadline date and time specified above or any dead line date and time specified later. Tenders will be publicly opened in the presence of the Tenderers' designated representatives who choose to attend at **BUNGOMA NORTH TECHNICAL & VOCATIONAL COLLEGE**

**THE PRINCIPAL/BOG SECRETARY**  
**FOR: BUNGOMA NORTH TECHNICAL & VOCATIONAL COLLEGE**

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# **PART 1 - TENDERING PROCEDURES**

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## SECTION I: INSTRUCTIONS TO TENDERERS

### A General Provisions

#### 1. Scope of Tender

- 1.1 The Procuring Entity as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The name, identification, and number of lots (contracts) of this Tender Document are **specified in the TDS**.

#### 2. Fraud and Corruption

- 2.1 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.
- 2.2 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, Tenders shall be required to complete and sign the “Certificate of Independent Tender Determination” annexed to the Form of Tender.
- 2.3 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. To that end, the Procuring Entity shall indicate in the **Data Sheet** and make available to all the firms together with this tender document all information that would in that respect give such firm any unfair competitive advantage over competing firms.
- 2.4 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 being tendered for. 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. Eligible Tenderers

- 3.1 A Tenderer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITT 3.7 or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. 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 entire 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. The maximum number of JV members shall be specified in the **TDS**.
- 3.2 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.
- 3.3 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 participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the tender; or
- f) any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as Engineer 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 contract specified in this Tender Document 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 Tender 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.

3.4 A tenderer shall not be involved in corrupt, coercive, obstructive, collusive or fraudulent practice. A tenderer that is proven to have been involved any of these practices shall be automatically disqualified.

3.5 A Tenderer (either individually or as a JV member) shall not participate in more than one Tender, except for permitted alternative tenders. This includes participation as a subcontractor in other Tenders. Such participation shall result in the disqualification of all Tenders in which the firm is involved. A firm that is not a tenderer or a JV member may participate as a subcontractor in more than one tender. 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.

3.6 A Tenderer may have the nationality of any country, subject to the restrictions pursuant to ITT 4.8. 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 may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or sub-consultants for any part of the Contract including related Services.

3.7 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](http://www.ppra.go.ke).

3.8 Tenderers that are state-owned enterprises or institutions may be eligible to compete and be awarded a Contract(s) only if they are accredited by PPRa to be (i) a legal public entity of the state Government and/or public administration, (ii) financially autonomous and not receiving any significant subsidies or budget support from any public entity or Government, and (iii) operating under commercial law and vested with legal rights and liabilities similar to any commercial enterprise to enable it compete with firms in the private sector on an equal basis.

3.9 A Firms and individuals may be ineligible if their countries of origin (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. A tenderer shall provide such documentary evidence of eligibility satisfactory to the Procuring Entity, as the Procuring Entity shall reasonably request.

3.10 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*”.

3.11 Pursuant to the eligibility requirements of ITT 4.10, a tender is considered a foreign tenderer, if the tenderer is not registered in Kenya or if the tenderer is registered in Kenya and has less than 51 percent ownership by Kenyan

Citizens. JVs are considered as foreign tenderers if the individual member firms are not registered in Kenya or if are registered in Kenya and have less than 51 percent ownership by Kenyan citizens. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.

3.12 The National Construction Authority Act of Kenya requires that all local and foreign contractors be registered with the National Construction Authority and be issued with a Registration Certificate before they can undertake any construction works in Kenya. Registration shall not be a condition for tender, but it shall be a condition of contract award and signature. A selected tenderer shall be given opportunity to register before such award and signature of contract. Application for registration with National Construction Authority may be accessed from the website [www.nca.go.ke](http://www.nca.go.ke).

3.13 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](http://www.cak.go.ke)

3.14 A Kenyan tenderer shall provide evidence of having fulfilled his/her tax obligations by producing a valid tax clearance certificate or tax exemption certificate issued by the Kenya Revenue Authority.

#### **4 Eligible Goods, Equipment, and Services**

4.1 Goods, equipment and services to be supplied under the Contract may have their origin in any country that is not eligible under ITT 3.9. At the Procuring Entity's request, Tenderers may be required to provide evidence of the origin of Goods, equipment and services.

4.2 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.

#### **5 Tenderer's Responsibilities**

5.1 The tenderer shall bear all costs associated with the preparation and submission of his/her tender, and the Procuring Entity will in no case be responsible or liable for those costs.

5.2 The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the tenderer's own expense.

5.3 The Tenderer and any of its personnel or agents will be granted permission by the Procuring Entity to enter upon its premises and lands for the purpose of such visit. The Tenderer shall indemnify the Procuring Entity against all liability arising from death or personal injury, loss of or damage to property, and any other losses and expenses incurred as a result of the inspection.

5.4 The tenderer shall provide in the Form of Tender and Qualification Information, a preliminary description of the proposed work method and schedule, including charts, as necessary or required.

#### **B. Contents of Tender Documents**

#### **6 Sections of Tender Document**

6.1 The tender document consists of Parts 1, 2, and 3, which includes all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITT 8.

## **PART 1 Tendering Procedures**

- i) Section I - Instructions to Tenderers (ITT)
- ii) Section II - Tender Data Sheet (TDS)
- iii) Section III - Evaluation and Qualification Criteria
- iv) Section IV - Tendering Forms

## **PART 2 Works Requirements**

- i) Section V - Drawings
- ii) Section VII - Bills of Quantities

## **PART 3 Conditions of Contract and Contract Forms**

- i) Section VII - General Conditions of Contract (GCC)
- ii) Section VIII - Special Conditions of Contract (SC)
- iii) Section IX - Contract Forms

6.2 The Invitation to Tender Document (ITT) issued by the Procuring Entity is not part of the Contract documents.

6.3 Unless obtained directly from the Procuring Entity, the Procuring Entity is not responsible for the completeness of the Tender document, responses to requests for clarification, the minutes of the pre-Tender meeting (if any), or Addenda to the Tender document in accordance with ITT 8. In case of any contradiction, documents obtained directly from the Procuring Entity shall prevail.

6.4 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document and to furnish with its Tender all information and documentation as is required by the Tender document.

## **7. Site Visit**

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

## **8. Pre-Tender Meeting**

8.1 The Procuring Entity shall specify in the TDS if a pre-tender meeting will be held, when and where. The Procuring Entity shall also specify in the TDS if a pre-arranged pretender site visit 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 pretender site 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 anonym zed (*no names*) Minutes of the pre-Tender meeting and the pre-arranged pretender 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 and the pre-arranged pretender site visit, shall be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT 8 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 and amendments 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 specified in the TDS, the Procuring Entity shall also promptly publish its response at the web page identified in the TDS. Should the clarification result in changes to the essential elements of the Tender Documents, the Procuring Entity shall amend the Tender Documents appropriately following the procedure under ITT 8.4.

## **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 web page in accordance with ITT 8.4.

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 25.2 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 and notarized translation of the relevant passages into 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 shall comprise the following:

- a) Form of Tender prepared in accordance with ITT 14;
- b) Schedules including priced Bill of Quantities, completed in accordance with ITT 14 and ITT 16;
- c) Tender Security or Tender-Securing Declaration, in accordance with ITT 21.1;
- 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 22.3;
- f) Qualifications: documentary evidence in accordance with ITT 19 establishing the Tenderer's qualifications to perform the Contract if its Tender is accepted;
- g) Conformity: a technical proposal in accordance with ITT 18;
- h) Any other document required in the TDS.

13.2 In addition to the requirements under ITT 11.1, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Tender shall be signed by all members and submitted with the Tender,

together with a copy of the proposed Agreement. The Tenderer shall chronologically serialize pages of all tender documents submitted.

13.3 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.

#### **14 Form of Tender and Schedules**

14.1 The Form of Tender and Schedules, including the Bill of Quantities, shall be prepared 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 20.3. All blank spaces shall be filled in with the information requested.

#### **15 Alternative Tenders**

15.1 Unless otherwise specified in the TDS, alternative Tenders shall not be considered.

15.2 When alternative times for completion are explicitly invited, a statement to that effect will be included in the TDS, and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.

15.3 Except as provided under ITT 13.4 below, Tenderers wishing to offer technical alternatives to the requirements of the Tender Documents must first price the Procuring Entity's design as described in the Tender Documents and shall further provide all information necessary for a complete evaluation of the alternative by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Tenderer with the Winning Tender conforming to the basic technical requirements shall be considered by the Procuring Entity. When specified in the TDS, Tenderers are permitted to submit alternative technical solutions for specified parts of the Works, and such parts will be identified in the TDS, as will the method for their evaluating, and described in Section VII, Works' Requirements.

#### **16 Tender Prices and Discounts**

16.1 The prices and discounts (including any price reduction) quoted by the Tenderer in the Form of Tender and in the Bill of Quantities shall conform to the requirements specified below.

16.2 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Tenderer shall be deemed covered by the rates for other items in the Bill of Quantities and will not be paid for separately by the Procuring Entity. An item not listed in the priced Bill of Quantities shall be assumed to be not included in the Tender, and provided that the Tender is determined substantially responsive notwithstanding this omission, the average price of the item quoted by substantially responsive Tenderers will be added to the Tender price and the equivalent total cost of the Tender so determined will be used for price comparison.

16.3 The price to be quoted in the Form of Tender, in accordance with ITT 14.1, shall be the total price of the Tender, including any discounts offered.

16.4 The Tenderer shall quote any discounts and the methodology for their application in the Form of Tender, in accordance with ITT 14.1.

16.5 It will be specified in the TDS if the rates and prices quoted by the Tenderer are or are not subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, except in cases where the contract is subject to fluctuations and adjustments, not fixed price. In such a case, the Tenderer shall furnish the indices and weightings for the price adjustment formulae in the Schedule of Adjustment Data and the Procuring Entity may require the Tenderer to justify its proposed indices and weightings.

16.6 Where tenders are being invited for individual lots (contracts) or for any combination of lots (packages), tenderers wishing to offer discounts for the award of more than one Contract shall specify in their Tender the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITT 16.4, provided the Tenders for all lots (contracts) are opened at the same time.

16.7 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 30 days prior to the deadline for submission of Tenders, shall be included in the rates and prices and the total Tender Price submitted by the Tenderer.

## **17. Currencies of Tender and Payment**

17.1 Tenderers shall quote entirely in Kenya Shillings. The unit rates and the prices shall be quoted by the Tenderer in the Bill of Quantities, entirely in Kenya shillings. A Tenderer expecting to incur expenditures in other currencies for inputs to the Works supplied from outside Kenya shall device own ways of getting foreign currency to meet those expenditures.

## **18. Documents Comprising the Technical Proposal**

18.1 The Tenderer shall furnish a technical proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Tender Forms, in sufficient detail to demonstrate the adequacy of the Tenderer's proposal to meet the work's requirements and the completion time.

## **19. Documents Establishing the Eligibility and Qualifications of the Tenderer**

19.1 Tenderers shall complete the Form of Tender, included in Section IV, Tender Forms, to establish Tenderer's eligibility in accordance with ITT 4.

19.2 In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract the Tenderer shall provide the information requested in the corresponding information sheets included in Section IV, Tender Forms.

19.3 A margin of preference will not be allowed. Preference and reservations will be allowed, individually or in joint ventures. Applying for eligibility for Preference and reservations shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITT 33.1.

19.4 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 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.

19.5 The purpose of the information described in ITT 19.4 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.

19.6 The Tenderer shall provide further documentary proof, information or authorizations that the Procuring Entity may request in relation to ownership and control which information on 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.

19.7 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.

19.8 If a tenderer fails to submit the information required by these requirements, its tender 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.



19.9 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:

- i) if the procurement process is still ongoing, the tenderer will be disqualified from the procurement process,
- ii) if the contract has been awarded to that tenderer, the contract award will be set aside,
- iii) 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.

19.10 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.

## 20. Period of Validity of Tenders

20.1 Tenders shall remain valid for the Tender Validity period specified in the TDS. The Tender Validity period starts from the date fixed for the Tender submission deadline (as prescribed by the Procuring Entity in accordance with ITT 24). A Tender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.

20.2 In 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 21.1, it shall also be extended for thirty (30) days 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 20.3.

20.3 If the award is delayed by a period exceeding the number of days to be specified in the TDS days beyond the expiry of the initial tender validity period, the Contract price shall be determined as follows:

- a) in the case of **fixed price** contracts, the Contract price shall be the tender price adjusted by the factor specified in the **TDS**;
- b) in the case of **adjustable price** contracts, no adjustment shall be made; or in any case, tender evaluation shall be based on the tender price without taking into consideration the applicable correction from those indicated above.

## 21. Tender Security

21.1 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. A Tender-Securing Declaration shall use the form included in Section IV, Tender Forms.

21.2 If a Tender Security is specified pursuant to ITT 19.1, the Tender Security shall be a demand guarantee in any of the following forms at the Tenderer's option:

- a) an unconditional Bank Guarantee issued by reputable commercial bank); or
- b) an irrevocable letter of credit;
- c) a Banker's cheque issued by a reputable commercial bank; or
- d) another security specified **in the TDS**,

21.3 If an unconditional bank guarantee is issued by a bank located outside Kenya, the issuing bank shall have a correspondent bank located in Kenya to make it enforceable. The Tender Security shall be valid for thirty (30) days beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 20.2.

21.4 If a Tender Security or Tender-Securing Declaration is specified pursuant to ITT 19.1, any Tender not accompanied by a substantially responsive Tender Security or Tender-Securing Declaration shall be rejected by the Procuring Entity as non-responsive.

21.5 If a Tender Security is specified pursuant to ITT 21.1, the Tender Security of unsuccessful Tenderers shall be returned as promptly as possible upon the successful Tenderer's signing the Contract and furnishing the

Performance Security and any other documents required in the TDS. The Procuring Entity shall also promptly return the tender security to the tenderers where the procurement proceedings are terminated, all tenders were determined nonresponsive or a bidder declines to extend tender validity period.

21.6 The Tender Security of the successful Tenderer shall be returned as promptly as possible once the successful Tenderer has signed the Contract and furnished the required Performance Security, and any other documents required in the TDS.

21.7 The Tender Security may be forfeited or the Tender-Securing Declaration executed:

- e) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer on the Form of Tender, or any extension thereto provided by the Tenderer; or
- f) if the successful Tenderer fails to:
  - i) sign the Contract in accordance with ITT 50; or
  - ii) furnish a Performance Security and if required in the TDS, and any other documents required in the TDS.

21.8 Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA that PPRA debars the Tenderer from participating in public procurement as provided in the law.

21.9 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 into 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 letter of intent referred to in ITT 4.1 and ITT 11.2.

21.10A tenderer shall not issue a tender security to guarantee itself.

## **22 Format and Signing of Tender**

22.1 The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 13 and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 15, 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.

22.2 Tenderers shall mark as "CONFIDENTIAL" all information in their Tenders which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.

22.3 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.

22.4 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 to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.

22.5 Any inter-lineation, 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**

### **23 Sealing and Marking of Tenders**

23.1 Depending on the sizes or quantities or weight of the tender documents, a tenderer may use an envelope, package or container. The Tenderer shall deliver the Tender in a single sealed envelope, or in a single sealed package, or in a single sealed container bearing the name and Reference number of the Tender, addressed to the Procuring Entity and a warning not to open before the time and date for Tender opening date. Within the single envelope, package or container, the Tenderer shall place the following separate, sealed envelopes:

- a) in an envelope or package or container marked “ORIGINAL”, all documents comprising the Tender, as described in ITT 11; and
- b) in an envelope or package or container marked “COPIES”, all required copies of the Tender; and
- c) if alternative Tenders are permitted in accordance with ITT 15, and if relevant:
  - i) in an envelope or package or container marked “ORIGINAL –ALTERNATIVE TENDER”, the alternative Tender; and
  - ii) in the envelope or package or container marked “COPIES- ALTERNATIVE TENDER”, all required copies of the alternative Tender.

The inner envelopes or packages or containers shall:

- a) bear the name and address of the Procuring Entity.
- b) bear the name and address of the Tenderer; and
- c) bear the name and Reference number of the Tender.

23.2 If an envelope or package or container is 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.

## **24. Deadline for Submission of Tenders**

24.1 Tenders must be received by the Procuring Entity at the address specified in the TDS and no later than the date and time also specified 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.

24.2 The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the Tender Documents in accordance with ITT 8, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

## **25. Late Tenders**

25.1 The Procuring Entity shall not consider any Tender that arrives after the deadline for submission of tenders, in accordance with ITT 24. 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.

## **26. Withdrawal, Substitution, and Modification of Tenders**

26.1 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 22.3, (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 22 and ITT 23 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” “MODIFICATION;” and
- b) received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT 24.

26.2 Tenders requested to be withdrawn in accordance with ITT 26.1 shall be returned unopened to the Tenderers.

26.3 No Tender may be withdrawn, substituted, or modified in the interval between the deadline for submission of Tenders and the expiration of the period of Tender validity specified by the Tenderer on the Form of Tender or any extension thereof.

## **27. Tender Opening**

27.1 Except in the cases specified in ITT 23 and ITT 26.2, the Procuring Entity shall publicly open and read out all Tenders received by the deadline, at the date, time and place specified in the TDS, in the presence of Tenderers' designated representatives who chooses to attend. Any specific electronic Tender opening procedures required if electronic Tendering is permitted in accordance with ITT 24.1, shall be as specified in the TDS.

- 27.2 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.
- 27.3 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.
- 27.4 Next, 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.
- 27.5 Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Tenderer and whether there is a modification; the total Tender Price, per lot (contract) if applicable, including any discounts and alternative Tenders; the presence or absence of a Tender Security or Tender-Securing Declaration, if required; and any other details as the Procuring Entity may consider appropriate.
- 27.6 Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further for evaluation. The Form of Tender and pages of the Bills of Quantities are to be initialed by the members of the tender opening committee attending the opening. The number of representatives of the Procuring Entity to sign shall be specified in the TDS.
- 27.7 At the Tender Opening, the Procuring Entity shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 25.1).
- 27.8 The Procuring **Entity shall prepare minutes 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 (contract) if applicable, including any discounts;
  - c) any alternative Tenders;
  - d) the presence or absence of a Tender Security, if one was required.
  - e) number of pages of each tender document submitted.
- 27.9 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**

### **28. Confidentiality**

- 28.1 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 Tender process until information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 46.
- 28.2 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.
- 28.3 Notwithstanding ITT 28.2, from the time of tender opening to the time of contract award, if a tenderer wishes to contact the Procuring Entity on any **matter related to the tendering process, it shall do so in writing.**

### **29. Clarification of Tenders**

- 29.1 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, given a reasonable time for a response. 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, including any voluntary increase or decrease, 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 ITT 33.

29.2 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.

### **30. Deviations, Reservations, and Omissions**

30.1 During the evaluation of tenders, the following definitions apply:

- a) "Deviation" is a departure from the requirements specified in the tender document;
- b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the tender document; and
- c) "Omission" is the failure to submit part or all of the information or documentation required in the Tender document.

### **31. Determination of Responsiveness**

31.1 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 13.

31.2 A substantially responsive Tender is one that meets the requirements of the Tender document without material deviation, **reservation, or omission. A material deviation, reservation, or omission is one that, if accepted, would:**

- a) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or
- b) limit in any substantial way, inconsistent with the tender document, the Procuring Entity's rights or the tenderer's obligations under the proposed contract; or
- c) if rectified, would unfairly affect the competitive position of other tenderers presenting substantially responsive tenders.

31.3 The Procuring Entity shall examine the technical aspects of the tender submitted in accordance with ITT 18, to confirm that all requirements of Section VII, Works' Requirements have been met without any material deviation, reservation or omission.

31.4 If a tender is not substantially responsive to the requirements of the tender document, it shall be rejected by the Procuring Entity and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

### **32. Non-material Non-conformities**

32.1 Provided that a tender is substantially responsive, the Procuring Entity may waive any non-conformities in the tender.

32.2 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, 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.

32.3 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**.

### **33. Arithmetical Errors**

33.1 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 any way by any person or entity.

33.2 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, and 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

33.3 Tenderers shall be notified of any error detected in their bid during the notification of a ward.

#### **34. Currency provisions**

34.1 Tenders will be priced in Kenya Shillings only. Tenderers quoting in currencies other than in Kenya shillings will be determined non-responsive and rejected.

#### **35. Margin of Preference and Reservations**

35.1 No margin of preference shall be allowed on contracts for small works.

35.2 Where it is intended to reserve the contract to specific groups under Small and Medium Enterprises, or enterprise of women, youth and/or persons living with disability, 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 that only businesses/firms belonging to those specified groups are the only ones eligible to tender. Otherwise if no so stated, the invitation will be open to all tenderers.

#### **36. Nominated Subcontractors**

36.1 Unless otherwise stated in the TDS, the Procuring Entity does not intend to execute any specific elements of the Works by subcontractors selected in advance by the Procuring Entity.

36.2 Tenderers may propose subcontracting up to the percentage of total value of contracts or the volume of works as specified in the TDS. Subcontractors proposed by the Tenderer shall be fully qualified for their parts of the Works.

36.3 The subcontractor's qualifications shall not be used by the Tenderer to qualify for the Works unless their specialized parts of the Works were previously designated by the Procuring Entity in the TDS as can be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Tenderer may be added to the qualifications of the Tenderer.

#### **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 in accordance with ITT 40.

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

- a) price adjustment due to discounts offered in accordance with ITT 16;
- b) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITT 39;
- c) price adjustment due to quantifiable non-material non-conformities in accordance with ITT 30.3; and
- d) any additional evaluation factors specified in the TDS and Section III, Evaluation and Qualification Criteria.

37.3 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.

37.4 In the case of multiple contracts or lots, Tenderers shall be allowed to tender for one or more lots and the methodology to determine the lowest evaluated cost of the lot (contract) combinations, including any discounts offered in the **Form of Tender, is specified in Section III, Evaluation and Qualification Criteria.**

### **38. Comparison of Tenders**

38.1 The Procuring Entity shall compare the evaluated costs of all substantially responsive Tenders established in accordance with ITT 38.2 to determine the Tender that has the lowest evaluated cost.

### **39. Abnormally Low Tenders**

39.1 An Abnormally Low Tender is one where the Tender price, in combination with other elements of the Tender, appears so low that it raises material concerns as to the capability of the Tenderer in regards to the Tenderer's ability to perform the Contract for the offered Tender Price or that genuine competition between Tenderers is compromised.

39.2 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 Tender document.

39.3 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.

### **40. Abnormally High Tenders**

40.1 An abnormally high 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.

40.2 In case of an abnormally high tender 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:

- i) 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.
- ii) 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.

40.3 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.

### **41. Unbalanced and/or Front-Loaded Tenders**

41.1 If in the Procuring Entity's opinion, the Tender that is evaluated as the lowest evaluated price is seriously unbalanced and/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 works, proposed methodology, schedule and any other requirements of the Tender document.

41.2 After the evaluation of the information and detailed price analyses presented by the Tenderer, the Procuring Entity may as appropriate:

- a) accept the Tender; or
- b) require that the total amount of the Performance Security be increased at the expense of the Tenderer to a level not exceeding a 30% of the Contract Price; or
- c) Agree on a payment mode that eliminates the inherent risk of the Procuring Entity paying too much for undelivered works; or
- d) Reject the Tender,

## **42. Qualifications of the Tenderer**

- 42.1 The Procuring Entity shall determine to its satisfaction whether the eligible Tenderer that is selected as having submitted the lowest evaluated cost and substantially responsive Tender, meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.
- 42.2 The determination shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 19. The determination shall not take into consideration the qualifications of other firms such as the Tenderer's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in the Tender document), or any other firm(s) different from the Tenderer.
- 42.3 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 Tenderer who offers a substantially responsive Tender with the next lowest evaluated price to make a similar determination of that Tenderer's qualifications to perform satisfactorily.
- 42.4 An Abnormally Low Tender is one where the Tender price, in combination with other elements of the Tender, appears so low that it raises material concerns as to the capability of the Tenderer in regards to the Tenderer's ability to perform the Contract for the offered Tender Price.
- 42.5 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 Tender document.
- 42.6 After evaluation of the price analyses, if 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.

## **43. Best Evaluated Tender**

- 43.1 Having compared the evaluated prices of Tenders, the Procuring Entity shall determine the Best Evaluated Tender. The Best Evaluated Tender is the Tender of the Tenderer that meets the Qualification Criteria and whose Tender has been determined to be:
- a) Most responsive to the Tender document; and
  - b) the lowest evaluated price.

## **44. Procuring Entity's Right to Accept Any Tender, and to Reject Any or All Tenders.**

- 44.1 The Procuring Entity reserves the right to accept or reject any Tender and to annul the Tender process and reject all Tenders at any time prior to Contract Award, without thereby incurring any liability to Tenderers. In case of annulment, all Tenderers shall be notified with reasons and all Tenders submitted and specifically, Tender securities, shall be promptly returned to the Tenderers.

## **F. Award of Contract**

### **45. Award Criteria**

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

### **46. Notice of Intention to enter into a Contract**

- 46.1 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;

#### **47. Standstill Period**

47.1 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.

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

#### **48. Debriefing by the Procuring Entity**

48.1 On receipt of the Procuring Entity's Notification of Intention to Enter into a Contract referred to in ITT 46, 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.

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

#### **49. Letter of Award**

49.1 Prior to the expiry of the Tender Validity Period and upon expiry of the Standstill Period specified in ITT 42.1, 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.

#### **50. Signing of Contract**

50.1 Upon the expiry of the fourteen days of the Notification of Intention to enter into contract and upon the parties meeting their respective statutory requirements, the Procuring Entity shall send the successful Tenderer the Contract Agreement.

50.2 Within fourteen (14) days of receipt of the Contract Agreement, the successful Tenderer shall sign, date, and return it to the Procuring Entity.

50.3 The written contract shall be entered into within the period specified in the notification of award and before expiry of the tender validity period

#### **51. Appointment of Adjudicator**

51.1 The Procuring Entity proposes the person named in the TDS to be appointed as Adjudicator under the Contract, at the hourly fee specified in the TDS, plus reimbursable expenses. If the Tenderer disagrees with this proposal, the Tenderer should so state in his Tender. If, in the Letter of Acceptance, the Procuring Entity does not agree on the appointment of the Adjudicator, the Procuring Entity will request the Appointing Authority designated in the Special Conditions of Contract (SCC) pursuant to Clause 23.1 of the General Conditions of Contract (GCC), to appoint the Adjudicator.

#### **52. Performance Security**

52.1 Within twenty-one (21) days of the receipt of the Letter of Acceptance from the Procuring Entity, the successful Tenderer shall furnish the Performance Security and, any other documents required in the TDS, in accordance with the General Conditions of Contract, subject to ITT 40.2 (b), using the Performance Security and other Forms included in Section X, Contract Forms, or another form acceptable to the Procuring Entity. A foreign institution providing a bank guarantee shall have a correspondent financial institution located in Kenya, unless the Procuring Entity has agreed in writing that a correspondent bank is not required.

52.2 Failure of the successful Tenderer to submit the above-mentioned Performance Security and other documents required in the TDS, 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.

52.3 Performance security shall not be required for contracts estimated to cost less than Kenya shillings five million shillings.

### **53. Publication of Procurement Contract**

53.1 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.

### **54. Procurement Related Complaints**

54.1 The procedures for making Procurement-related Complaints are as specified in the TDS.

## Section II - Tender Data Sheet (TDS)

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

<b>A. General</b>	
<b>ITT 1.1</b>	Name of Project is:  <b>PROPOSED CONSTRUCTION OF AGRICULTURAL ENGINEERING COMPLEX AT BUNGOMA NORTH TVC – PHASE 1</b>  <b>TENDER NO.: BNTVC/T/2/2023-2024/2</b>
<b>ITT 3.1</b>	Maximum number of members in the Joint Venture (JV) shall be: <b>Five (5No.)</b>
<b>B. Contents of Tender Document</b>	
<b>8.1</b>	<b>A pre-arranged pre-Tender visit of the site of the works shall be held on 25<sup>th</sup> April 2024</b>
<b>ITT 8.2</b>	The Tenderer will submit any questions in writing, to reach the Procuring Entity not later than five days to the tender opening date
<b>ITT 8.4</b>	The Procuring Entity’s website where the Minutes of the pre-Tender meeting of the pre-arranged pre-Tender site visit will be published is: <a href="http://www.bungomanorthvc.ac.ke">www.bungomanorthvc.ac.ke</a>
<b>ITT 9.1</b>	For Clarification of Tender purposes, for obtaining further information and for purchasing tender documents, the Procuring Entity’s address is <a href="mailto:procurement@bungomanorthvc.ac.ke">procurement@bungomanorthvc.ac.ke</a>
<b>C. Preparation of Tenders</b>	
<b>ITP 13.1 (h)</b>	The Tenderer shall submit the following additional documents in its Tender: .....N/A.....
<b>ITT 15.1</b>	Alternative Tenders " <i>shall not be</i> " considered.
<b>ITT 15.2</b>	Alternative times for completion " <i>shall not be</i> " permitted.
<b>ITT 15.4</b>	Alternative technical solutions shall be permitted for the following parts of the Works: N/A
<b>ITT 16.5</b>	The prices quoted by the Tenderer shall be: <i>fixed and shall remain as indicated in the Form of tender</i>
<b>ITT 22.1</b>	The Tender validity period shall be: <b>120 days.</b>

ITT 21.3 (a)	<p>(a) The delayed to exceeding <u>      N/A      </u> number of days.</p> <p>(b) The Tender price shall be adjusted by the following percentages of the tender pence:</p> <p>(i) By <u>N/A</u> % of the local currency portion of the Contract price adjusted to reflect local inflation during the period of extension,</p> <p>and</p> <p>(ii) By <u>N/A</u> % the foreign currency portion of the Contract price adjusted to reflect the international inflation during the period of extension.</p>
ITT 21.1	<p>A Tender Security of Kshs 7,000,000.00 will be required.</p> <p>A Tender-Securing Declaration shall be required.</p> <p>The amount and currency of the Tender Security shall be: Kenya Shillings</p>
ITT 21.2 (d)	The other Tender Security shall be: N/A
ITT 21.5	On the Performance Security, other documents shall be: 5% of the tender sum from a recognised financial institution or insurance company
ITT 21.9	The Procuring Entity may declare the Tenderer ineligible to be awarded a contract by the Procuring Entity for a period of <b>90 Days</b> .
ITT 22.1	In addition to the original of the Tender, the number of copies is: <b>TWO COPIES OF THE ORIGINAL</b>
ITT 22.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of: <b>SPECIAL POWER OF ATTORNEY</b>
<b>D. Submission and Opening of Tenders</b>	
ITT 24.1	<p>(A) For <u>Tender submission purposes</u> only, the Procuring Entity's address is: <b>BUNGOMA NORTH TECHNICAL &amp; VOCATIONAL COLLEGE,</b>  ..... or to be addressed to:</p> <p style="text-align: center;"><b>PRINCIPAL/BOG SECRETARY,  BUNGOMA NORTH TECHNICAL &amp; VOCATIONAL COLLEGE  P.O. BOX 72 -50211,  NAITIRI</b></p> <p>So as to be received on or before <b>3<sup>rd</sup> MAY 2024 at 10.00 A.M.</b></p> <p><b>Proposed Construction of Agricultural Engineering Complex at Bungoma North TVC – Phase 1</b></p> <p>Tenderers <b>shall not submit</b> tenders electronically.</p>
ITT 27.1	The Tender opening shall take place at <b>BUNGOMA NORTH TECHNICAL &amp; VOCATIONAL COLLEGE ON 10<sup>TH</sup> MAY 2024 AT 10.00 AM</b>
ITT 27.1	The Number of representatives of the Procuring Entity to sign shall be: ...3.....
ITT 32.3	The adjustment shall be based on the " <i>average</i> " price of the item or component as quoted in other substantially responsive Tenders. If the price of the item or component cannot be derived from the price of other substantially responsive Tenders, the Procuring Entity shall use its best estimate.

ITT 35.2	The invitation to tender is extended to the following groups that qualify for Reservations .....N/A.....
ITT 36.1	At this time, the Procuring Entity " <i>does not intend</i> ") to execute certain specific parts of the Works by subcontractors selected in advance.
ITT 36.2	Contractor's may propose subcontracting: Maximum percentage of subcontracting permitted is: 10 % <i>of the total contract amount</i> . Tenderers planning to subcontract more than 10% of total volume of work shall specify, in the Form of Tender, the activity(ies) or parts of the Works to be subcontracted along with complete details of the subcontractors and their qualification and experience.
ITT 36.3	<p>The parts of the Works for which the Procuring Entity permits Tenderers to propose Specialized Subcontractors are designated as follows:  .....N/A.....</p> <p>For the above-designated parts of the Works that may require Specialized Subcontractors, the relevant qualifications of the proposed Specialized Subcontractors will be added to the qualifications of the Tenderer for the purpose of evaluation.</p>
ITT 37.2 (d)	Additional requirements apply. These are detailed in the evaluation criteria in Section III, Evaluation and Qualification Criteria.
ITT 51.1	The person named to be appointed as Adjudicator is _____N/A___at an hourly fee of Kshs .....N/A..... per day.
ITT 52.2	Other Documents required (refer to evaluation criteria)
ITT 53.1	<p>The procedures for making Procurement-related Complaints are detailed in the "Regulations" available from the PPRA Website <a href="http://www.ppra.go.ke">www.ppra.go.ke</a> or email <a href="mailto:complaints@ppra.go.ke">complaints@ppra.go.ke</a> . If a Tenderer wishes to make a Procurement-related Complaint, the Tenderer should submit its complaint following these procedures, in writing (by the quickest means available, that is either by hand delivery or email to:</p> <p>For the attention: <i>CHARLES OPIYO AWUOR</i>  Title/position: <i>THE PRINCIPAL</i></p> <p>Procuring Entity: <b>BUNGOMA NORTH TECHNICAL &amp; VOCATIONAL COLLEGE</b>  Email address: <a href="mailto:bungomanorthtechnicalcollege@yahoo.com">bungomanorthtechnicalcollege@yahoo.com</a></p> <p>In summary, a Procurement-related Complaint may challenge any of the following:  (i) the terms of the Tender Documents; and  the Procuring Entity's decision to award the contract.</p>

**SECTION III - EVALUATION AND QUALIFICATION CRITERIA**

**1. General Provisions**

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 is 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 14.3. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

This section contains the criteria that the Employer shall use to evaluate tender and qualify tenderers. No other factors, methods or criteria shall be used other than specified in this tender document. 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 Document for Goods and Works** for evaluating Tenders.

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.

**2. 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 requirements in the ITT, and that the tender is complete in all aspects in meeting the requirements of “Part 2 – Procuring Entity's Works Requirements”, including checking for tenders with unacceptable errors, abnormally low tenders, abnormally high tenders and tenders that are front loaded. 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 irresponsive and will not be considered further.

**3. Tender Evaluation (ITT 35) Price evaluation:** in addition to the criteria listed in ITT 35.2 (a) – (c) the following criteria shall apply:

- i) **Alternative Completion Times**, if permitted under ITT 13.2, will be evaluated as follows:  
.....
- ii) **Alternative Technical Solutions** for specified parts of the Works, if permitted under ITT 13.4, will be evaluated as follows: .....
- iii) **Other Criteria**; if permitted under ITT 35.2(d):  
.....

**4. Multiple Contracts**

Multiple contracts will be permitted in accordance with ITT 35.4. 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.

### **5. Alternative Tenders (ITT 13.1)**

*An alternative if permitted under ITT 13.1, will be evaluated as follows:*

The Procuring Entity shall consider Tenders offered for alternatives as specified in Part 2- Works 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.

### **6. Margin of Preference is not applicable**

### **7. Post qualification and Contract award (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], equivalent calculated as total certified payments received for contracts in progress and/or completed within the last \_\_\_\_\_ [insert of year] years.
  - iii) At least \_\_\_\_\_ (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 \_\_\_\_\_ equivalent.
  - iv) Contractor's Representative and Key Personnel, which are specified as \_\_\_\_\_
  - v) Contractors key equipment listed on the table "Contractor's Equipment" below and more specifically listed as [specify requirements for each lot as applicable] \_\_\_\_\_
  - vi) Other conditions depending on their seriousness.
    - 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 ongoing 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.

**TABLE 1: PRELIMINARY CHECKLIST FOR COMPLETENESS AND RESPONSIVENESS**

S/No.	Completeness and Responsiveness Criteria	References	Requirement
1.	Form of Tender	FORM QF 1	- Amount must be indicated - Properly fill, sign and stamp
2.	Confidential Business Questionnaire	FORM QF 2	- Properly fill, sign and stamp - Provide all required information
3.	Disclosure of Interest	FORM QF 3	- Properly fill, sign and stamp
4.	Statement of Certification	FORM QF 4	- Properly fill, sign and stamp
5.	Certificate of Independent Tender Determination	FORM QF 5	- Properly fill, sign and stamp
6.	Self-Declaration Forms (Debarment)	FORM SD 1	- Properly fill, sign and stamp
7.	Self-Declaration Forms (Anti-Corruption Declaration)	FORM SD 2	- Properly fill, sign and stamp
8.	Certificate of Incorporation/Business Name Reg. Certificate		- Copy of certificate
9.	Tax Compliance Certificate		- Copy of valid Tax Comp Certificate
10.	Registration with National Construction Authority		- Category NCA 4 and above under Building Works - Category NCA 4 and above under Mechanical Works and Electrical Works
11.	Contractors annual practicing license from NCA		- NCA practicing license for the current year
12.	Current Business Permit		- Copy of valid Business Permit
13.	Priced Bill of Quantities	PART II; Section VII	- Fill all rates, prices and amounts
14.	Eligibility		- Copies of National IDs for Directors - Copy of Form CR12
15.	Special Power of Attorney		- Written Special Power of Attorney signed and stamped by Commissioner of Oaths
16.	Bid Bond	I.T.T 21.1	- Amount of <b>Kshs 7,000,000,00</b> in the form of Guarantee from Reputable Bank or Insurance Company approved by PPRA
17.	Copy of Bid Document	I.T.T. 22.1	- Replica of the original two copies
18.	Bidding documents must be paginated /serialized.		- All bidders are required to submit their documents paginated in a continuous ascending order from the first page to the last in this format; (i.e. 1,2,3..... n where n is the last page)

**NB The tenderer must be 100% responsive at this stage in order to proceed to the next stage of evaluation**



**TABLE 2: TECHNICAL EVALUATION**

Item	Description	Point Scored	Max. Point
i.	<b>Current Business Permit</b> <ul style="list-style-type: none"> <li>• Attached ----- 5</li> <li>• Not attached ----- 0</li> </ul>		<b>5</b>
li	<b>Key Personnel (Attach evidence)</b>		<b>20</b>
	<b>Director of the firm</b> <ul style="list-style-type: none"> <li>• Holder of degree/ Higher national diploma in relevant Engineering field--- 6</li> <li>• Holder of diploma in relevant Engineering field ----- 5</li> <li>• Holder of certificate in relevant Engineering field----- 3</li> <li>• Holder of trade test certificate in relevant Engineering field --- 2</li> <li>• No relevant certificate ----- 1</li> </ul>	<b>6</b>	
	<b>At least 1No. degree/diploma holder of key personnel in relevant field</b> <ul style="list-style-type: none"> <li>• With over 10 years relevant experience ----- 6</li> <li>• With over 5 years relevant experience----- 4</li> <li>• With under 5 years relevant experience ----- 2</li> </ul>	<b>6</b>	
	<b>At least 1No certificate holder of key personnel in relevant field</b> <ul style="list-style-type: none"> <li>• With over 10 years relevant experience----- 4</li> <li>• With over 5 years relevant experience ----- 3</li> <li>• With under 5 years relevant experience -----1</li> </ul>	<b>4</b>	
	<b>At least 2No artisan (trade test certificate in relevant field)</b> <ul style="list-style-type: none"> <li>• Artisan with over 10 years relevant experience ----- 2</li> <li>• Artisan with under 10 years relevant experience ----- 1</li> <li>• Non skilled worker with over 10 years relevant experience ---- 1</li> </ul>	<b>4</b>	
lii	<b>Contract(s) completed in the last five (5) years (Max of 5No. Projects)- Provide Evidence</b> <ul style="list-style-type: none"> <li>• Project of similar nature, complexity or magnitude (Ksh. 200,000,000)---- 5</li> <li>• Project of similar nature but of lower Magnitude than the one in consideration ----- 3</li> <li>• No completed project of similar nature -----0</li> </ul>		<b>25</b>
Iv	<b>On-going projects – Provide Evidence</b> <ul style="list-style-type: none"> <li>• At least three Projects of similar nature, complexity and magnitude ----- 3</li> <li>• At least two Projects of similar, nature complexity and magnitude -----2</li> </ul>		<b>3</b>
V	<b>Schedule of contractors equipment and transport (proof or evidence of ownership/Lease eg logbook, purchase receipts of equipment or lease agreement)</b>		<b>10</b>
	<b>a)Relevant Transport</b> <ul style="list-style-type: none"> <li>• Means of transport (Lorries/tippers at least 5 ) -----5</li> <li>• No means of transport ----- 0</li> </ul>	<b>5</b>	
	<b>b)Relevant Equipment (Concrete Mixers, excavation equipment etc)</b> <ul style="list-style-type: none"> <li>• Has relevant equipment for work being tendered ----- 5</li> <li>• No relevant equipment for work being tendered ----- 0</li> <li>•</li> </ul>		<b>5</b>
	<b>Financial report</b>		

<b>vi</b>	a) Audited financial report (last three (3) years, 2020,2021,2022 &2023) <ul style="list-style-type: none"> <li>• Average Annual Turn-over greater than Ksh. 500,000,000.00 ----- 15</li> <li>• Average Annual Turn-over above Ksh. 300,000,000. ----- 6</li> <li>• Average Annual Turn-over above Ksh. 100,000,000.....3</li> </ul>		<b>15</b>
	b) Evidence of Financial Resources (cash in hand/bank, lines of credit facilities ) <ul style="list-style-type: none"> <li>• Has financial resources to finance the projected <b>monthly cash flow*</b> for three months -----20</li> <li>• Has financial resources equal to the projected <b>monthly cash flow*</b>--10</li> <li>• Has financial resources less the projected <b>monthly cash flow*</b>--5</li> <li>• Has not indicated sources of financial resources ----- 0</li> </ul>		<b>20</b>
<b>Vii</b>	<b>Litigation History</b> <ul style="list-style-type: none"> <li>• Duly Filled ----- 2</li> <li>• Not filled ----- 0</li> </ul>		<b>2</b>
	<b>TOTAL</b>		<b>100</b>

**Any bidder who scores 70 points and above shall be considered for further evaluation**

*\*Monthly Cash Flow = Tender Sum/Contract Period*

**TABLE 3: FINANCIAL EVALUATION**

Bids that pass the Technical Evaluation shall be subjected to the Financial Evaluation as follows:

- i) Tender Rates and Arithmetic Errors:  
*Evaluation of the tender rates will constitute examination of: (a) Pricing Consistency (same rates for similar items, price distribution amongst sections. etc; (b) reasonableness of pricing (comparison with prevailing market levels); and (c) arithmetic errors*

The bidders who pass the test of price consistency and reasonableness, and accept their arithmetic errors (if any) shall finally be graded in terms of their submitted tender sums. The lowest bid in this group shall be the **lowest evaluated price** as per Section 86(1) of the Public Procurement & Asset Disposal Act 2015

**QUALIFICATION FORMS**

**FORM OF TENDER**

..... [date]

**Tender No.:** .....

**PROJECT NAME: PROPOSED CONSTRUCTION OF AGRICULTURAL ENGINEERING COMPLEX AT BUBGOMA NORTH TVC – PHASE 1**

**To:** .....  
.....

Dear Sirs,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct and complete the Works and remedy any defects therein for the sum of Kenya Shillings *[[Amount in figures]* .....\_Kenya Shillings *[amount in words]*  
.....  
.....
2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Project Manager's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Special Conditions of Contract.
3. We agree to adhere by this tender until \_\_\_\_\_ *[Insert date]*, and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us. We further understand that you are not bound to accept the lowest or any tender you may receive.
5. We, the undersigned, further declare that:
  - i) No reservations: We have examined and have no reservations to the tender document, including Addenda issued in accordance with ITT 28;
  - ii) Eligibility: We meet the eligibility requirements and have no conflict of interest in accordance with ITT 3 and 4;
  - iii) Tender-Securing Declaration: We have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing or Proposal-Securing Declaration in the Procuring Entity's Country in accordance with ITT 19.8;
  - iv) Conformity: We offer to execute in conformity with the tendering documents and in accordance with the implementation and completion specified in the construction schedule, the above Works.

- v) Tender Price: The total price of our Tender, excluding any discounts offered is as item 1 above.
- vi) Discounts: The discounts offered and the methodology for their application are:
- vii) The discounts offered are: [*Specify in detail each discount offered.*]
- viii) 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*];
- ix) Tender Validity Period: Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- x) Performance Security: If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tendering document;
- xi) One Tender Per Tender: We are not submitting any other Tender(s) as an individual Tender, and we are not participating in any other Tender(s) as a Joint Venture member or as a subcontractor, and meet the requirements of ITT 3.4, other than alternative Tenders submitted in accordance with ITT 13.3;
- xii) Suspension and Debarment: We, along with any of our subcontractors, suppliers, Project Manager, 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 Public Procurement Regulatory Authority or any other entity of the Government of Kenya, or any international organization.
- xiii) State-owned enterprise or institution: [*We are not a state-owned enterprise or institution*] / [*We are a state-owned enterprise or institution but meet the requirements of ITT 3.8*];
- xiv) Commissions, gratuities, fees: We have paid, or will pay the following commissions, gratuities, or fees with respect to the tender 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.")

- xv) Binding Contract: We understand that this Tender, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- xvi) Not Bound to Accept: We understand that you are not bound to accept the lowest evaluated cost Tender, the Most Advantageous Tender or any other Tender that you may receive;
- xvii) 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;

- xviii) 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.
- xix) We undertake to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, during the procurement process and the execution of any resulting contract.
- xx) We, the Tenderer, have completed fully and signed the following Forms as part of our Tender:
  - a) Tenderer's Eligibility; Confidential Business Questionnaire – to establish we are not in any conflict to interest.
  - b) Certificate of Independent Tender Determination – to declare that we completed the tender without colluding with other tenderers.
  - c) Self-Declaration of the Tenderer – to declare that we will, if awarded a contract, not engage in any form of fraud and corruption.
  - d) Declaration and commitment to the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal

Further, we confirm that we have read and understood the full content and scope of fraud and corruption as informed in “**Appendix 1- Fraud and Corruption**” attached to the Form of Tender.

**Name of the Tenderer:** .....

**Name of the person duly authorized to sign the Tender on behalf of the Tenderer:**

.....

**Title of the person signing the Tender:** .....

**Signature of the person named above:** .....

**Date signed:** .....day of.....,2024

Notes

*\* In the case of the Tender submitted by joint venture specify the name of the Joint Venture as Tenderer*

*\*\* Person signing the Tender shall have the power of attorney given by the Tenderer to be attached with the Tender.*

**A. 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**

	<b>ITEM</b>	<b>DESCRIPTION</b>
1	Name of Procuring Entity	
2	Reference Number of the Tender	
3	Date and Time of Tender Opening	
4	Name of Tenderer	
5	Full Address and Contact details of the Tenderer	i) Country: ..... ii) City: ..... iii) Location: ..... iv) Building: ..... v) Floor: ..... vi) Postal Address: ..... vii) Contact Details: .....
6	Current Trade License Registration No. and Expiring Date	
7	Description Nature of Business	
8	Max. Value of Business which the Tenderer handles	

Name \_\_\_\_\_ Title\_\_ Date \_\_\_\_\_

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

**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.

	<b>Names of Partners</b>	<b>Nationality</b>	<b>Citizenship</b>	<b>% Shares owned</b>
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.

	<b>Names of Director</b>	<b>Nationality</b>	<b>Citizenship</b>	<b>% Shares owned</b>
1				
2				
3				

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

i) Are there any person/persons in State Department for Correctional Services who has/have an interest or relationship in this firm? Yes/No.....

If yes, provide details as follows.

	<b>Names of Person</b>	<b>Designation in the Procuring Entity</b>	<b>Interest or Relationship with Tenderer</b>
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	Tender 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)

**B. 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 tender] 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:

1. I have read and I understand the contents of this Certificate;
2. I understand that the Tender will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am the authorized representative of the Tenderer with authority to sign this Certificate, and to submit the Tender on behalf of the Tenderer;
4. 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;
5. 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;
6. 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;
7. 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;
8. 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].*

**C. 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 herein 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 herein above is true to the best of my knowledge information and belief.

..... (Title)	..... (Signature)	..... (Date)
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Bidder's 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 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.....

## D. APPENDIX 1- FRAUD AND CORRUPTION

*(Appendix 1 shall not be modified)*

### 1. Purpose

2. The Government of Kenya's Anti-Corruption and Economic Crime laws and their sanction's policies and procedures, Public Procurement and Asset Disposal Act (*no. 33 of 2015*) and its Regulation, and any other 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.

### 3. Requirements

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.

Kenya's public procurement and asset disposal act (*no. 33 of 2015*) under Section 66 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 highlight Kenya's policy of no tolerance for such practices and behavior: -

- 1) 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;
- 2) A person referred to under subsection (1) who contravenes the provisions of that sub-section commits an offence;
- 3) 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;
- 4) The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedy the procuring entity may have;
- 5) 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 bidder to whom was awarded contract, or a member of the group of bidders to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.
- 6) 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;
- 7) If a person contravenes subsection (1) with respect to a conflict of interest described in subsection (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.

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 set forth below as follows:
  - i) "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
  - ii) "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;

- 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:
    - 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
    - acts intended to materially impede the exercise of the PPRA's or the appointed authority's inspection and audit rights provided for under paragraph 2.3 e. below.
- b) Defines more specifically, in accordance with the above procurement 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 process or 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 award<sup>1</sup> 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 Kenya's above stated Acts and Regulations, may sanction or recommend to appropriate authority (ies) for sanctioning and debarment of a firm or individual, as applicable under the Acts and Regulations;
  - e) Requires that a clause be included in 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 inspect<sup>2</sup> all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the PPRA or any other appropriate authority appointed by Government of Kenya; and
  - f) Pursuant to Section 62 of the above 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.

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<sup>1</sup> For 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.

<sup>2</sup> Inspections 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 thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

## 7. FORM OF TENDER SECURITY - DEMAND BANK GUARANTEE

Beneficiary: \_\_\_\_\_

Request for Tenders No: \_\_\_\_\_

Date: \_\_\_\_\_

TENDER GUARANTEE No.: \_\_\_\_\_

Guarantor: \_\_\_\_\_

1. We have been informed that \_\_\_\_\_ (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Tender (hereinafter called "the Tender") for the execution of \_\_\_\_\_
2. under Request for Tenders No. \_\_\_\_\_ ("the ITT").
3. Furthermore, we understand that, according to the Beneficiary's conditions, Tenders must be supported by a Tender guarantee.
4. 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 thereto provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the Performance.
5. 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.
6. 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)]*



**FORM OF TENDER SECURITY (TENDER BOND)**

*[The Surety shall fill in this Tender Bond Form in accordance with the instructions indicated.]*

BOND NO. \_\_\_\_\_

1. BY THIS BOND *[name of tenderer]* as Principal (hereinafter called “the Principal”), and *[name, legal title, and address of surety]*, **authorized to transact business in** *[name of country of Procuring Entity]*, as Surety (hereinafter called “the Surety”), are held and firmly bound unto *[name of Procuring Entity]* as Obligee (hereinafter called “the Procuring Entity”) in the sum of *[amount of Bond]**[amount in words]*, for the payment of which sum, well and truly to be made, we, the said Principal and Surety, bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.
2. WHEREAS the Principal has submitted or will submit a written Tender to the Procuring Entity dated the \_\_\_\_ day of \_\_\_\_\_, 20\_\_ , for the supply of *[name of Contract]* (hereinafter called the “Tender”).
3. NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal:
  - 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 Surety 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. The Surety hereby agrees that its obligation will remain in full force and effect up to and including the date 30 days after the date of expiration of the Tender Validity Period set forth in the Principal's Letter of Tender or any extension thereto provided by the Principal.
5. IN TESTIMONY WHEREOF, the Principal and the Surety have caused these presents to be executed in their respective names this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

Principal: \_\_\_\_\_  
Corporate Seal (where appropriate)

Surety \_\_\_\_\_  
:

*(Signature)*

\_\_\_\_\_  
*(Signature)*

*(Printed name and title)*

\_\_\_\_\_  
*(Printed name and title)*

**TENDER-SECURING DECLARATION FORM**

*[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

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## **PART II - WORK REQUIREMENTS**

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# SECTION V – DRAWINGS (annexed)

A list of drawings should include the actual drawings including Site plans should be annexed in a separate booklet.

**NOTES**

**General**  
 1. All dimensions are in meters unless otherwise specified.  
 2. The contractor must check and verify all dimensions before commencing work.  
 3. All work must be done in accordance with the approved drawings (P/I).

**Structural**  
 1. For all C-cams, refer to S.D.P. details.  
 2. All walls are to be constructed in accordance with the approved drawings.  
 3. All structural work must be done in accordance with the approved drawings.

**Mechanical**  
 1. All piping and ducts are to comply with P.I. specifications.  
 2. All piping and ducts are to be supported at the head of the run.  
 3. All piping and ducts are to be supported at the head of the run.

**Electrical**  
 1. All wiring must be laid in accordance with the approved drawings.  
 2. All wiring must be done in accordance with the approved drawings.

**Fire Notes**  
 1. All doors must be self-closing doors.  
 2. All doors must be self-closing doors.  
 3. All doors must be self-closing doors.

NO.	DESCRIPTION	DATE	BY	CHKD.
1	Issue for approval	21/09/2023	AVRABEN/AMN	AVRABEN/AMN
2	Issue for construction	21/09/2023	AVRABEN/AMN	AVRABEN/AMN

Date	Description	By

**Project**  
 PROJECT FOR THE CONSTRUCTION OF A 3-STOREY COMMERCIAL BUILDING WITH TWO STOREYS ABOVE GROUND.

**Client**  
 SUNSHINE NORTH PVT  
 P. O. Box 72 - 8011  
 NAIROBI - KENYA

**Client's Approval**  
 Date: \_\_\_\_\_

**Drawing No.** WORKING DRAWINGS

**Scale**  
 1:200

**Project No.** 8876/2023 **Drawing No.** 8876/001

Name	Sign	Date
Drawn: AVRABEN/AMN		21/09/2023
Checked: AVRABEN/AMN		21/09/2023
Approved: AVRABEN/AMN		21/09/2023

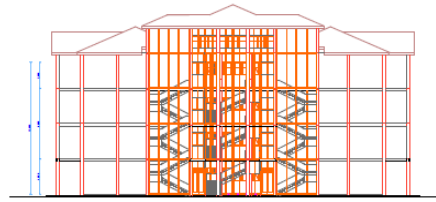
**AVRABEN/AMN**  
 REGIONAL WORKS OFFICER - NAIROBI REGION

**MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT**  
 STATE DEPARTMENT FOR PUBLIC WORKS  
 REGIONAL WORKS OFFICE  
 NAIROBI REGION  
 P. O. Box 821 - 40100  
 NAIROBI - KENYA

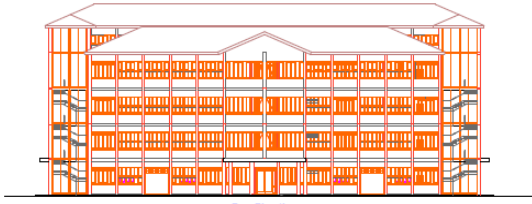
REGIONAL WORKS OFFICER  
 21/09/2023  
 P. O. Box 821 - 40100  
 NAIROBI - KENYA



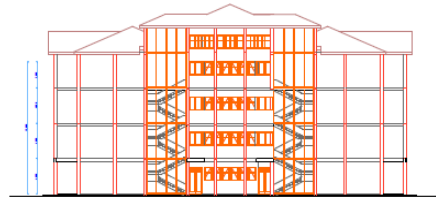
Front Elevation



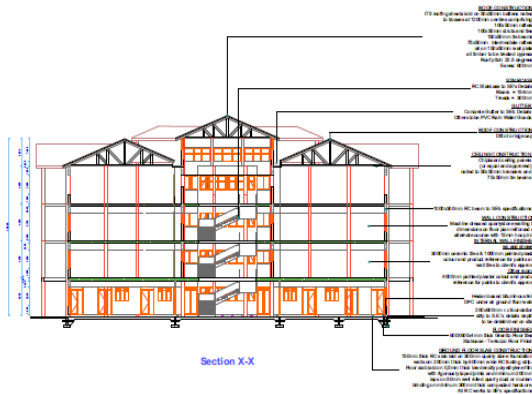
End Elevation 01



Rear Elevation



End Elevation 02



Section X-X

**NOTES**

General:  
 1. All dimensions are in meters unless otherwise specified.  
 2. All dimensions are to be taken from the center line of the wall unless otherwise specified.  
 3. All dimensions are to be taken from the center line of the wall unless otherwise specified.

Structural:  
 1. All dimensions are to be taken from the center line of the wall unless otherwise specified.  
 2. All dimensions are to be taken from the center line of the wall unless otherwise specified.

Mechanical:  
 1. All dimensions are to be taken from the center line of the wall unless otherwise specified.  
 2. All dimensions are to be taken from the center line of the wall unless otherwise specified.

Electrical:  
 1. All dimensions are to be taken from the center line of the wall unless otherwise specified.  
 2. All dimensions are to be taken from the center line of the wall unless otherwise specified.

Fire Safety:  
 1. All dimensions are to be taken from the center line of the wall unless otherwise specified.  
 2. All dimensions are to be taken from the center line of the wall unless otherwise specified.

NO.	REVISIONS	DATE
01	ISSUED FOR PERMIT	21/09/2023
02	ISSUED FOR PERMIT	21/09/2023
03	ISSUED FOR PERMIT	21/09/2023
04	ISSUED FOR PERMIT	21/09/2023
05	ISSUED FOR PERMIT	21/09/2023
06	ISSUED FOR PERMIT	21/09/2023
07	ISSUED FOR PERMIT	21/09/2023
08	ISSUED FOR PERMIT	21/09/2023
09	ISSUED FOR PERMIT	21/09/2023
10	ISSUED FOR PERMIT	21/09/2023
11	ISSUED FOR PERMIT	21/09/2023
12	ISSUED FOR PERMIT	21/09/2023
13	ISSUED FOR PERMIT	21/09/2023
14	ISSUED FOR PERMIT	21/09/2023
15	ISSUED FOR PERMIT	21/09/2023
16	ISSUED FOR PERMIT	21/09/2023
17	ISSUED FOR PERMIT	21/09/2023
18	ISSUED FOR PERMIT	21/09/2023
19	ISSUED FOR PERMIT	21/09/2023
20	ISSUED FOR PERMIT	21/09/2023

Project: PROPOSED AGRICULTURAL ENGINEERING COMPLEX FOR SUNGUM NORTH TIC - SUNGUM COUNTY

Client: SUNGUM NORTH TIC  
 P. O. Box 72-8011  
 MOSES - KENYA

Client's Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Drawing No: WORKING DRAWINGS

Scale: 1:200

Project No: BENC01022 Drawing No: BENC01022

Name	Sign	Date
Drawn: AYUBA B. O.		SEPT. 2023
Architect: AYUBA B. O.		SEPT. 2023
Checked: AYUBA B. O.		SEPT. 2023

Approved: AYUBA B. O.  
 REGIONAL WORKS OFFICER - MURANGA REGION

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT  
 STATE DEPARTMENT OF PUBLIC WORKS  
 REGIONAL WORKS OFFICE  
 MURANGA REGION  
 REGIONAL WORKS OFFICE  
 REGIONAL WORKS OFFICE

REGIONAL WORKS OFFICE  
 MURANGA REGION  
 21 SEPT 2023  
 P. O. Box 821 - 40100  
 SUNGUM - MURANGA



## **SECTION VI- BILLS OF QUANTITIES (Annexed)**

### **1. Objectives**

The objectives of the Bill of Quantities are:

- a) to provide sufficient information on the quantities of Works to be performed to enable tenders to be prepared efficiently and accurately; and
- b) when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and contents of the Bill of Quantities should be as simple and brief as possible.

### **2. Provisional Sums**

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary priced Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the Special Conditions of Contract should state the manner in which they shall be used, and under whose authority (usually the Project Manager's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Tenderers in respect of any facilities, amenities, attendance, etc., to be provided by the successful Tenderer as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Tenderer to quote a sum for such amenities, facilities, attendance, etc.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the tendering document. They should not be included in the final tendering document.

### **3. The Bills of Quantities**

The Bills of Quantities should be divided generally into the following sections:

- a) Preambles
- b) Preliminary items
- c) Work Items
- d) Provisional items
- e) Summary.

### **4. The Summary to the Bills of Quantities will take this form or some other form but including these items.**

## **PREAMBLES AND PRICING NOTES**

### **A. GENERALLY**

All work to be carried out in accordance with the Ministry of Roads, Housing & Urban Development and Public Works General Specifications for Building Works issued in 1976 or as qualified or amended below.

### **B. MANUFACTURERS' NAMES**

Where manufacturers' names and catalogue references are given for guidance to quality and standard only, alternative manufacturer of equal quality will be accepted at the discretion of the Project Manager.

### **C. WALLING**

All precast concrete blocks shall be manufactured by the methods and to the sizes specified in the Ministry of Roads, Housing & Urban Development and Public Works "Specification for Metric Sized Concrete Blocks for Building (1972)"

Walling of 100 mm thickness or under shall be reinforced with hoop iron every alternate course.

Prices for walling must allow for all costs in preparing, packing and sending sample blocks for testing as and when required by the Project Manager.

### **D. CARPENTRY**

The grading rules for cypress shall be the same for podocarpus and all timber used for structural work shall be select (second grade).

All structural timber must conform to the minimum requirements for moisture content and preservative treatment and timber prices must allow for preparing, packing and sending samples for testing when required.

Prices must also include for all nails and fasteners.

### **E. JOINERY**

Cypress for joinery shall be second grade in accordance with the latest grading rules of the Kenya Government.

Where Mahogany is specified, this refers to prime grade only. The Contractor may with the approval of the Project Manager; use either Msharagi or Mvuli in lieu of Mahogany but such approval will be given only in the case of shortages of the hardwoods specified.

Plugging shall be carried out by drilling walling or concrete with masonry drill and filling with propriety plugs of the correct sizes. Cutting with hammer and chisel will not be allowed.

Prices for joinery must include for pencil rounded arises, protection against damage, nails, screws, framing and bedding in cement mortar as required.

Sizes given for joinery items are nominal sizes and exact dimensions of doors, etc, must be ascertained on site.



**A. IRONMONGERY**

Ironmongery shall be specified in the Bills of Quantities or equal and approved.

Prices must include for removing and re-fixing during and after painting, labeling all keys, and for fixing to hardwood, softwood, concrete or blockwork.

Catalogue references given for ironmongery are for purposes of indicating quality and size of item(s). Should the Contractor wish to substitute the specified item(s) with others of equal manufacture, he must inform the Project Manager and obtain approval in writing.

**B. STRUCTURAL STEELWORK**

All structural steelwork shall comply with the Ministry of Roads, Housing & Urban Development and Public Works "Structural Steelwork Specification (1973) and shall be executed by an approved Sub-contractor.

**C. PLASTERWORK AND OTHER FINISHES**

All finishing shall be as described in the general specifications and in these Bills of Quantities.

Prices for paving are to include for brushing concrete clean, wetting and coating with cement and sand grout 1:1.

Rates for glazed wall tiling are to include for a 12 mm cement and sand (1:4) backing screed unless otherwise specified in these Bills of Quantities.

**D. GLAZING**

Where polished plate glass is specified, this refers to general glazing quality.

Prices for glazing shall include for priming of rebates before placing putty.

The Contractor will be responsible for replacing any broken or scratched glass and handing over in perfect condition.

**E. PAINTING**

Painting shall be applied in accordance with the manufacturers' instructions.

Prices for painting are to include for scaffolding, preparatory work, priming coats, protection of other works and for cleaning up on completion. Prices for painting on galvanized metal are to include for mordant solution as necessary.

**F. TILES - CERAMIC, PORCELEIN, GRANITO ETC**

No tiles shall be fitted/installed without sample approvals.

No claim shall be allowed on the grounds that the bidder priced an inferior quality

**G. CURTAINS & COVERS ETC**

The bidder shall be deemed to have priced the best materials

No curtains & covers shall be fitted/installed without sample approvals.

No claim shall be allowed on the grounds that the bidder priced an inferior quality



Item	Description	Amount KSh
	<p><b><u>PARTICULAR PRELIMINARIES</u></b></p>	
A	<p><b>EMPLOYER</b></p>	
	<p>The Employer is the <b>Bungoma North Technical and Vocational College</b>                      The term "Employer" and "Government" wherever used in the contract document shall be synonymous.</p>	
B	<p><b>PROJECT MANAGER</b></p>	
	<p>The term "PM" wherever used in these Bills of Quantities shall be deemed to imply the project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government .</p>	
C	<p><b>ARCHITECT</b></p>	
	<p>The term "Architect" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Regional Works Officer, P.O Box 821 -40100, KISUMU.</p>	
D	<p><b>QUANTITY SURVEYOR</b></p>	
	<p>The term "Quantity Surveyor" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Regional Works Officer, P.O Box 821 -40100, KISUMU.</p>	
E	<p><b>ELECTRICAL ENGINEER</b></p>	
	<p>The term "Electrical Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Regional Works Officer, P.O Box 821 -40100, KISUMU.</p>	
F	<p><b>MECHANICAL ENGINEER</b></p>	
	<p>The term "Mechanical Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Regional Works Officer, P.O Box 821 -40100, KISUMU.</p>	
G	<p><b>STRUCTURAL ENGINEER</b></p>	
	<p>The term "Structural Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Regional Works Officer, P.O Box 821 -40100, KISUMU.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	Amount KSh
A	<p><b>PRICING ITEMS OF PRELIMINARIES</b></p> <p>Preliminaries to the contract are mandatory conditions and responsibilities the contractor is required to fulfill for the complete and proper execution of the contract. The contractor is advised to read and understand all his obligations under preliminaries. Should he find that fulfillment of any of the items will lead to him incurring any cost not covered under measured works, he shall price such works accordingly otherwise failure to price any item will be construed to mean that the tenderer has included it in other priced items in the bills of quantities</p> <p>Prices <b>SHALL BE INSERTED</b> against items of “preliminaries” in the tenderer’s priced Bills of Quantities. The contractor is advised to read and understand all preliminary items.</p> <p><u>NB: VAT SHALL BE INCLUSIVE IN ALL THE RATES</u></p>	
B	<p><b>SCOPE OF CONTRACT</b></p> <p>The works to be carried out comprises of construction of a Agricultural Engineering Complex and associated Civil, Electrical and Mechanical Installations works at Bungoma North Technical and Vocational College, Naitiri.</p>	
C	<p><b>DESCRIPTION OF THE WORKS</b></p> <p><b>The Works consist of:</b> Construction of Agricultural Engineeering Complex. The superstructure will be consist of concrete works and natural stone walling with horizontal key pointing, There will be a concrete roof slab as well as temporary roof protection consisting of box profile prepainted roofing sheets gauge 28 G.C.I sheets box profile on Steel trusses. The external wall finish will consist of horizontal key pointing to wall, weatheguard paint to columns &amp; beams. The internal wall finish will include plaster and paint &amp; ceramic tiles to all wet areas. Floors to be finished in ceramic tiles. Ceiling finishes are in plaster and paint, and chipboard ceiling on timber brandering. Doors are in solid core timber flush doors and steel doors. Windows are in glazed steel casement.</p> <p>Electrical works include electrical wiring &amp; fittings</p> <p>Mechanical works including associated piping and fittings</p>	
D	<p><b>MEASUREMENTS</b></p> <p>In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 22 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 22 of the said Conditions.</p>	
	<i>Carried to collection</i>	

Item	Description	Amount KSh
A	<p><b>FLOOR AREAS</b></p> <p><b>Agricultural Engineering Complex</b></p> <p>Ground Floor = 1933 SM</p> <p>First Floor = 1826 SM</p> <p><b>Total floor area = 3759 SM</b></p> <p>Storey height = 3.0 Meters</p>	
B	<p><b>LOCATION OF SITE</b></p> <p>The sites of the proposed works is <b>Bungoma North Technical and Vocational College, Kakamega County</b>.The Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor’s failure to do so will be entertained.</p>	
C	<p><b>SIGNING OF THE TENDER DOCUMENTS</b></p> <p>The bidder shall append his / her signature and / or company ‘s rubberstamp on each and every page of tender document.</p>	
D	<p><b>DEMOLITIONS AND ALTERATIONS</b></p> <p>The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer’s agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Project Manager.</p> <p>The works shall be propped, strutted and supported as necessary before any alteration or demolition work commences. Prices shall include for all cleaning and preparatory work to structure and finishes and for making good to all finishes on completion whether or not specifically described.</p> <p>Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and carterd away from site.</p> <p>The Contractor shall be entirely responsible for any breakage or damage which may occur to materials required for re-use during their removal unless it is certified by the Project Manager that such damage or breakage was inevitable as a result of the condition of the item concerned.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	Amount KSh
A	<p><b>CLEARING AWAY</b></p> <p>The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean and tidy state to the reasonable satisfaction of the Project Manager.</p> <p>The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.</p>	
B	<p><b>CLAIMS</b></p> <p>It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and / or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such a claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claim shall be entertained upon the expiry of the said contract period.</p>	
C	<p><b>PAYMENTS</b></p> <p>The tenderer's attention is drawn to the fact that the GOVERNMENT DOES NOT MAKE ADVANCE PAYMENTS but pays for work done and materials delivered to sit: all in accordance with Clause 23 of the Conditions of Contract Agreement. In order to facilitate this, a list of the general component elements for the works is given at the summary page of these specifications and the tenderer is requested to break down his tender sum commensurate to the said elements.</p>	
D	<p><b>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</b></p> <p>The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is thus instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of activities being carried out by the Client. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site.</p>	
E	<p><b>WORKING CONDITIONS</b></p> <p>The Contractor shall allow in his rates for any interference that he may encounter in the course of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the facility will be operating as usual during the course of the contract.</p>	
F	<p><b>SIGNBOARD</b></p> <p>Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p>	
G	<p><b>LABOUR CAMPS</b></p> <p>The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.</p>	
	<i>Carried to collection</i>	

Item	Description	Amount KSh
A	<p><b>MATERIALS FROM DEMOLITIONS</b></p> <p>Any materials arising from demolitions and not re-used shall become the property of the client. The Contractor shall allow in his rates the cost of disposing the demolished materials as directed.</p>	
B	<p><b>PRICING RATES</b></p> <p>The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, all to comply with the said Conditions of Contract.</p>	
C	<p><b>SECURITY</b></p> <p>The Contractor shall allow for providing adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the Contractor for not maintaining adequate security for both the works and workers.</p>	
D	<p><b>URGENCY OF THE WORKS</b></p> <p>The Contractor is notified that these “ <b>works are urgent</b>” and should be completed within the period stated in these Particular Preliminaries.</p> <p>The Contractor shall allow in his rates for any costs he/ she deems that he/she may incur by having to complete these works within the stipulated contract period.</p>	
E	<p><b>PAYMENT FOR MATERIALS ON SITE</b></p> <p>All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.</p>	
F	<p><b>EXISTING SERVICES</b></p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>	
G	<p><b>CONTRACT COMPLETION PERIOD</b></p> <p>The contract completion period in accordance with condition 31 of the Conditions of contract must be adhered to.</p> <p>The ‘PROJECT MANAGER’ shall strictly monitor the Contractors progress in relation to the progress chart and should it be found necessary the ‘PROJECT MANAGER’ shall inform the Contractor in writing that his actual performance on site is not satisfactory .In all such cases the Contractor shall accelerate his rate of performance production and progress by all means such as additional labour,plant, e.t.c and working overtime all at his cost.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	Amount KSh
A	<p><b>PERFORMANCE BOND</b></p> <p>A bond of 5% of the contract sum will be required in accordance with clause 6.00 (as amended) on award of contract of the Instructions to Tenderer's. No payment on account for the works executed will be made to the contractor until he has submitted the Performance Bond to the Project Manager duly signed, sealed and stamped from an approved Bank.</p>	
B	<p><b>TENDER DOCUMENTS</b></p> <p>Tender documents are as listed in Clause 2.1 of the Instruction to Tenderer's Page STD/9</p>	
C	<p><b>DELIVERY OF TENDER</b></p> <p>Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents or as indicated in the advertisement.</p> <p>Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered/received later than the above time will not be</p>	
D	<p><b>VALUE ADDED TAX</b></p> <p>The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1<sup>st</sup> September, 1993 which requires payment of VAT on all contracts. The Contractor should therefore include allowance in his rates and prices for prices for VAT and any other Government taxes currently in force.</p> <p>The tenderer is advised that in accordance with Government public notice No. 35 &amp; 36 Dated 11<sup>th</sup> September 2003 operational from 1<sup>st</sup> October 2003, VAT will be deducted against the contract sum at the prevailing rate by the Employer and remitted directly to the Commissioner of VAT through all interim certificates. It should however be noted that this is not additional tax but a new mode of payment for VAT, any excess payment will be refundable once the Contractor has submitted monthly returns to the Commissioner of VAT who will do the refunds when satisfied that the VAT regulations have been complied with.</p> <p><b>NB:</b> The Contractor should therefore include the VAT tax within the rates.</p>	
E	<p><b>EXISTING BUILDING MATERIALS</b></p> <p>NOTE: Any materials found usable for the works shall be given to the contractor on credit with the approval of the client</p>	
	<i>Carried to collection</i>	



PROPOSED CONSTRUCTION OF AGRICULTURAL ENGINEERING COMPLEX - PHASE 1

Item	Description	Amount KSh
	<p><b>TRANSPORT &amp; SUBSISTENCE</b></p>	
A	<p>Provide a provisional sum of Kenya Shillings Five Hundred Thousand (Kshs 500,000.00) only for provision of necessary Project Management Stationery &amp; Expenses as directed by the Project Manager</p>	500,000.00
	<p>Allow for Contractor's profit and overheads (-----%)</p>	
B	<p>Provide a provisional sum of Kenya Shillings Two Hundred and Forty Thousand (Kshs 240,000.00) only for <b>Clerk of works</b> expenses.</p>	240,000.00
	<p>Allow for Contractor's profit and overheads (-----%)</p>	
	<p><b><u>Transport</u></b></p> <p>C The Contractor shall provide for transportation during site trips i.e from the state department of Public Works, Nyanza Regional Office to the site and Back to the Department of Public Works, Nyanza Regional Office. Reimbursement to the Contractor for providing the transport services will be based per trip to the site and back during the currency of the rate as here below to be inserted.</p> <p><b><u>Reimbursement for transport shall be as follows:-</u></b></p> <p>By a rate per (2day) trip for providing satisfactorily vehicle together with licenced, competent and acceptable driver and his subsistence allowances; adequate fuel for the trip as per tenderes quoted rates bellow</p> <p>Allow for providing a satisfactorily vehicle together with a licenced and competent driver adequate fuel for 2day trip and driver allowance for of 14No. Trips</p> <p>Allow for profits and attendance-----%</p>	
	<p><b><i>Carried to collection</i></b></p>	

Item	Description	Amount KSh
	<p><b><u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT</u></b></p>	
	<p>The following are the insertions to be made in the appendix to the Contract Agreement: -</p>	
	<p><b>Period of Final Measurement</b>     3 Months From Practical completion</p>	
	<p><b>Defects Liability Period</b>                 6 Months from Practical completion</p>	
	<p><b>Date for Possession</b>                         To be agreed with the Project Manager</p>	
	<p><b>Date for Completion</b>                         As stated in the Special Conditions of Contract</p>	
	<p><b>Liquidated and Ascertained</b>                 As stated in the Special Conditions of Contract</p>	
	<p><b>Prime cost</b> sums for which .....</p>	
	<p>The Contractor desires to tender .....</p>	
	<p><b>Period of Interim Certificates</b>                         Monthly</p>	
	<p><b>Period of Honouring Certificates</b>                         60 days as per conditions of contract [14.7.1b]</p>	
	<p><b>Percentage of Certified Value Retained</b>                         10%</p>	
	<p><b>Limit of Retention Fund</b>                         5%</p>	
	<p><i>Carried to collection</i></p>	

PROPOSED CONSTRUCTION OF AGRICULTURAL ENGINEERING COMPLEX - PHASE 1

Item	Description	Amount KSh
	<b><u>COLLECTION</u></b>	
	Brought forward from page PP/1	
	Brought forward from page PP/2	
	Brought forward from page PP/3	
	Brought forward from page PP/4	
	Brought forward from page PP/5	
	Brought forward from page PP/6	
	Brought forward from page PP/7	
	Brought forward from page PP/8	
	<b>TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO GRAND SUMMARY</b>	



Item	Description	Amount KSh
	<p><b>GENERAL PRELIMINARIES</b></p> <p><b>A. PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</b></p> <p>Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p>The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p><b>B. ABBREVIATIONS</b></p> <p>Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-</p> <p><i>C.M.</i>                      Shall mean cubic metre</p> <p><i>S.M.</i>                      Shall mean square metre</p> <p><i>L.M.</i>                      Shall mean linear metre</p> <p><i>MM</i>                        Shall mean Millimetre</p> <p><i>Kg.</i>                        Shall mean Kilogramme</p> <p><i>No.</i>                        Shall mean Number</p> <p><i>Prs.</i>                        Shall mean Pairs</p> <p><b>B.S.</b>                      Shall mean the British Standard specification              Published by the British Standards</p> <p><i>Ditto</i>                      Shall mean the whole of the preceding description except as qualified in the</p> <p><i>m.s.</i>                        Shall mean measured separately.</p> <p><i>a.b.d</i>                      Shall mean as before described.</p>	
	<i>Carried to collection</i>	

Item	Description	Amount KSh
A.	<p><b>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</b></p> <p><i>Attendance</i> ; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of</p> <p><b>Fix Only:-</b></p> <p>"Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p>	
B	<p><b>FORM OF CONTRACT</b></p> <p>The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works (2006 Edition) included herein:</p> <p>The Conditions of Contract are also included herein</p> <p><i>Conditions of Contract</i></p> <p>These are numbered from 1 to 37 as set out in pages <b>18 to 37</b> of these tender documents.</p> <p>Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities</p> <p>If the contractor considers that compliance with any of the conditions of contract involves any expense, he shall distribute the expense among his rates for the various items in the bills of quantities. No claim shall be allowed arising from the contractors compliance with <u>any of the conditions of contract</u>.</p>	
C	<p><b>PLANT, TOOLS AND VEHICLES</b></p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p>	
D	<p><b>TRANSPORT.</b></p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	Amount KSh
A	<p><b>MATERIALS AND WORKMANSHIP.</b></p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
B	<p><b>SIGN FOR MATERIALS SUPPLIED.</b></p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER.</p>	
C	<p><b>STORAGE OF MATERIALS</b></p> <p>The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
D	<p><b>SAMPLES</b></p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Public Works.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p>	
	<i>Carried to collection</i>	

Item	Description	Amount KSh
A	<p><b>GOVERNMENT ACTS REGARDING WORK, PEOPLE ETC.</b></p> <p>Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the work people.</p> <p>The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps , passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p>	
B	<p><b>SECURITY OF WORKS ETC.</b></p> <p>The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p>	
C	<p><b>PUBLIC AND PRIVATE ROADS.</b></p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER.</p>	
D	<p><b>EXISTING PROPERTY.</b></p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER</p>	
E	<p><b>VISIT SITE AND EXAMINE DRAWINGS.</b></p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p>	
	<i>Carried to collection</i>	



Item	Description	Amount KSh
A	<p><b>ACCESS TO SITE AND TEMPORARY ROADS.</b></p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads (approximately 70 metres long) for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER.</p>	
B	<p><b>AREA TO BE OCCUPIED BY THE CONTRACTOR</b></p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p>	
C	<p><b>OFFICE ETC. FOR THE PROJECT MANAGER</b></p> <p>The Contractor shall provide, erect and maintain where directed on site a properly ventilated lockable office for the consultants, having a minimum floor area of 40 Square Metres complete with adequate furniture (Tables, chairs e.t.c). Provision shall be made for artificial lighting and cleaning facilities for the duration of the works. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.</p> <p>In particular, the Contractor is to note that the neighbourhood will continue with operations during the period of the works and the contractor shall ensure that construction activities do not interfere with such operations by way of noise, obstruction, dust, vibrations or trespass.</p> <p>The site office is to be fully supplied with power,with notice boards, and drawers for storage.</p> <p>The contractor to allow for provision of snacks and soft drinks to participants during site inspections and meetings</p> <p>The entire site is a non-smoking area.</p> <p>All such temporary works shall be dismantled and cleared away on completion of the construction.</p>	
D	<p><b>COMPUTER AND INTERNET CONNECTION</b></p> <p>The Contractor shall provide and maintain the Project Manager's office with, A3 printer, a high performance desk top computer and a laptop connected with unlimited high speed wifi internet connection. The Contractor is to pay all connection charges and shall allow for any other fees that may become payable during the contract period. The computer specifications shall meet the Project Manager's requirement and shall be for sole use of the Project Manager or his representative.</p>	
E	<p><b>SANITATION OF THE WORKS</b></p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	Amount KSh
A	<p><b>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</b></p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER . The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub--contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
B	<p><b>SUPERVISION AND WORKING HOURS</b></p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.</p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Such sums are net and no addition shall be made to them for profit.</p>	
C	<p><b>PRIME COST (OR P.C.) SUMS.</b></p> <p>The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods as stated in Condition No. 20 of the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p>	
D	<p><b>PROGRESS CHART.</b></p> <p>The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p>	
E	<p><b>ADJUSTMENT OF P.C. SUMS.</b></p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them.</p> <p>Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>	
	<i>Carried to collection</i>	

Item	Description	Amount KSh
A	<p><b>NOMINATED SUB-CONTRACTORS</b></p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts as described in Condition No. 20 of the Conditions of Contract and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".</p>	
B	<p><b>DIRECT CONTRACTS</b></p> <p>Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p>	
C	<p><b>ATTENDANCE UPON OTHER TRADESMEN, ETC.</b></p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>	
D	<p><b>REMOVAL OF RUBBISH</b></p> <p>Removal of rubbish and debris from the Building and the site as it accumulates and at the completion of the works and removal all plant, scaffolding and unused materials at completion.</p>	
E	<p><b>INSURANCE</b></p> <p>The Contractor shall insure as required in Conditions No 30 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p>	
F	<p><b>PROVISIONAL WORK</b></p> <p>All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p>	
	<p>The Contractor shall provide for transportation during site trips i.e from the state department of Public</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	Amount KSh
A	<p><b>ALTERATIONS TO BILLS, PRICING, ETC.</b></p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p>	
B	<p><b>BLASTING OPERATIONS</b></p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>	
C	<p><b>MATERIALS ARISING FROM EXCAVATIONS</b></p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>	
D	<p><b>PROTECTION OF THE WORKS.</b></p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p>	
E	<p><b>WORKS TO BE DELIVERED UP CLEAN</b></p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER.</p>	
F	<p><b>GENERAL SPECIFICATION.</b></p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
	<i>Carried to collection</i>	

PROPOSED CONSTRUCTION OF AGRICULTURAL ENGINEERING COMPLEX - PHASE 1

Item	Description	Amount KSh
A	<p><b>TRAINING LEVY</b></p> <p>The Contractor's attention is drawn to the legal notice which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than KShs. 1,000,000.00 in value.</p>	
B	<p><b>MATERIALS ON SITE</b></p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.</p>	
C	<p><b>HOARDING</b></p> <p>The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100 x 50 mm timber posts firmly secured at 1800 mm centres with two 75 x 50 mm timber rails. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p>	
D	<p><b>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</b></p> <p>The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
	<p><i>Carried to collection</i></p>	

Item	Description	Amount KSh
	<b><u>COLLECTION</u></b>	
	Brought Forward From Page GP/1	
	Brought Forward From Page GP/2	
	Brought Forward From Page GP/3	
	Brought Forward From Page GP/4	
	Brought Forward From Page GP/5	
	Brought Forward From Page GP/6	
	Brought Forward From Page GP/7	
	Brought Forward From Page GP/8	
	Brought Forward From Page GP/9	
	<b>TOTAL FOR GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY</b>	

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>ELEMENT NO. 1; SUBSTRUCTURE</u></b>				
	<b><u>"ALL PROVISIONAL"</u></b>				
	<b><u>Excavations</u></b>				
	<b><u>Site clearance and excavations</u></b>				
A	Clear site of grass, bushes and small trees grabbing roots and cart away from site	sm	2244		
B	Excavate oversite 250mm thick to remove top vegetable soil and deposit on site as directed	sm	2244		
C	Bulk excavate to reduce levels commencing from stripped level average 500mm deep and spread on site average 10 meters away	cm	967		
D	Excavate for foundation trenches commencing from the stripped level but not exceeding 1.5m deep	cm	438		
E	Excavate for column bases commencing from the stripped level but not exceeding 1.5m deep	cm	777		
F	Extra over excavation in different classes of rock	cm	243		
G	Allow for keeping excavations free from surface water by baling or pumping	Item			
H	Allow for supporting sides of excavations by strutting and planking	Item			
	<b><u>Disposal</u></b>				
J	Return, fill and ram selected excavated materials around foundations in layers not exceeding 150mm thick.	cm	1909		
K	Load and cart away surplus excavated material from site	cm	516		
	<b><u>Hardcore filling</u></b>				
L	300mm thick hardcore bed well watered and compacted in layers not exceeding 150mm thick	cm	921		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>Blinding to hardcore</u></b>				
A	50mm thick quarry dust blinding to hardcore to receive damp proof membrane	sm	1842		
	<b><u>Anti-termite</u></b>				
B	Chemical anti-termite treatment with ten years guarantee as 'Termidor' or other equal approved on foundation	sm	1933		
	<b><u>Damp proof membrane</u></b>				
C	500 gauge polythene membrane laid horizontally over blinding (measured nett-allow for laps)	sm	1933		
	<b><u>Mass concrete class 10/20 mix: in</u></b>				
D	50 mm thick blinding to strip footing	sm	292		
E	Ditto to column bases	sm	517		
	<b><u>Vibrated reinforced insitu concrete class 25/20; with minimum cube crushing strength of 25N/mm<sup>2</sup> at 28 days; in</u></b>				
F	Column bases	cm	259		
G	Column starters	cm	26		
H	Strip footing	cm	59		
J	150mm thick ground floor slab	sm	1933		
	<b><u>Reinforcement</u></b>				
	<b><u>Supply and fix cold worked steel bar to BS 4449 REF in structural concrete work including cutting, bending, hoisting, tying wire, spacing blocks and supporting all in position</u></b>				
K	Assorted Bars	kg	41280		
	<b><u>B.R.C mesh reinforcement Ref. A142 to BS 4483</u></b>				
L	Mesh reinforcement No. A142 size 200 x 200 mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports (measured net - allow for laps)	sm	1933		
	<i>Carried to Collection</i>				



Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>Formwork</u></b>				
	<b><u>Sawn softwood formwork to:-</u></b>				
A	Sides of bases	sm	422		
B	Sides of column starters	sm	269		
C	Sides of strip foundation	sm	195		
D	Edges of bed 75-150 mm wide.	m	191		
	<b><u>Sub-wall</u></b>				
	<b><u>Machine dressed natural stone bedded and jointed in cement and sand mix ( 1:3 ) as described in :-</u></b>				
E	200mm thick walling reinforced at every course with hoop iron tie	sm	655		
	<b><u>Plinth</u></b>				
	<b><u>Plaster</u></b>				
F	20mm thick plaster on wall surfaces finished smooth with steel trowel	sm	58		
	<b><u>Paint</u></b>				
G	Prepare and apply two coats bituminous paint to plastered plinth surface	sm	58		
	<i>Carried to Collection</i>				
	<b><u>COLLECTION</u></b>				
	From Page 1				
	From Page 2				
	From Page 3 (above)				
	<b>SUBSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY</b>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>ELEMENT NO. 2; REINFORCED CONCRETE SUPERSTRUCTURE</u></b>				
	<b><u>Vibrated reinforced insitu concrete class 25/20; with minimum cube crushing strength of 25N/mm<sup>2</sup> at 28 days; in</u></b>				
A	Columns	cm	84		
B	Beams	cm	115		
C	Staircase	cm	20		
D	150mm thick horizontal solid suspended slab	sm	1826		
E	150mm thick staircase landing	sm	23		
F	150mm thick Ramp	sm	107		
	<b><u>Reinforcements</u></b>				
	<b><u>Supply and fix cold worked steel bar to BS 4449 REF in structural concrete work including cutting, bending, hoisting, tying wire, spacing blocks and supporting all in position</u></b>				
G	Assorted Bars	kg	61488		
	<b><u>Formwork</u></b>				
	<b><u>Sawn softwood formwork to in-situ concrete to:-</u></b>				
H	Sides of columns	sm	896		
J	Sides and soffits of beams	sm	1353		
K	Soffits of horizontal suspended slab	sm	1826		
L	Ditto to ramp	sm	107		
M	Ditto to staircase landing	sm	23		
N	Soffits of sloping slabs of staircase	sm	41		
P	Edges of horizontally suspended slab exceeding 75mm but not exceeding 150mm high	m	191		
Q	Edges of horizontally suspended Ramp exceeding 75mm but not exceeding 150mm high	m	44		
R	Ditto risers ditto	m	195		
S	Edges of strings; cut to profile of strings; 150mm - 225mm girth.	m	30		
	<b>REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY</b>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>ELEMENT NO. 3; WALLING</u></b>				
	<b><u>External walls</u></b>				
	<b><u>Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm<sup>2</sup></u></b>				
A	200mm thick masonry walls with hoop iron laid after every alternate course.	sm	763		
	<b><u>Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar</u></b>				
B	200 mm wide	m	191		
	<b><u>Internal</u></b>				
	<b><u>Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm<sup>2</sup></u></b>				
C	200 mm Thick walls	sm	1198		
	<b><u>Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar</u></b>				
D	200mm wide	m	295		
	<b>WALLING CARRIED TO FLOOR SUMMARY</b>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>ELEMENT NO. 3; DOORS</u></b>				
	<b><u>Timber Doors</u></b>				
	<b><u>Flush Doors</u></b>				
A	45mm thick single leaf semi solid flush door with hardwood lipping around all edges overall size 900mm x 2400mm high; 300mm fanlight with 4mm thick clear glazing to Architect's door schedule (D3)	No	10		
B	Ditto door size 1000mm x 2400mmhigh; as detailed in the Architect's schedule (D4)	No	4		
C	Ditto door size 1500mm x 3000mmhigh; as detailed in the Architect's schedule (D6)	No	12		
	<b><u>Wrot mahogany: prime grade</u></b>				
D	150mm x 50mm door frames	m	156		
E	150mm x 50mm door transome	m	32		
F	50mm x 25mm Architrave: splayed	m	156		
G	12mm diameter hardwood quodrant	m	156		
	<b><u>Prepare and apply one coat of aluminium wood primer on timber surfaces in contact with concrete or masonry</u></b>				
H	Over 100mm but not exceeding 200mm girth	m	156		
J	Not exceeding 100mm girth	m	156		
	<b><u>Prepare surfaces: apply three coats polyurethane clear lacquer or other equal approved: on timber surfaces: to</u></b>				
K	Over 100mm but not exceeding 200mm girth	m	188		
L	Not exceeding 100mm girth	m	188		
M	General surfaces of doors	sm	176		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>Supply and fix: 'UNION' or other equal approved ironmongery: matching screws: locks to include a set of 3 keys: available from their authorised local dealers; brass finish to architects approval</u></b>				
A	100mm brass butt hinges	Prs	39		
B	Three lever mortice lock with brass handles	No	16		
C	Two lever mortice locks with brass handles	No	10		
D	Rubber door stop fixed to details	No	16		
	<b><u>Steel-Doors</u></b>				
E	Purpose made mild steel casement door overall size 3000mm x 3000mm high; 6mm clear glass and glazing; 300mm high x 5mm thick mild steel kickplate at the lower part; complete with frame; one coat red oxide primer; all ironmongery and fixing accessories; as detailed in the Architect's schedule (D1)	No	8		
F	Ditto door size 1500mm x 3000mmhigh; as detailed in the Architect's schedule (D2)	No	4		
G	Ditto door size 2900mm x 3000mmhigh; as detailed in the Architect's schedule (D7)	No	2		
	<b><u>Roller Shutters</u></b>				
	<b><u>Supply materials, fabricate and fix the following industrial roller shutters, gear operated ;complete with all necessary ironmongery, steel sections,frame, one coat primer (refer to architect's details)</u></b>				
H	Door Size 2900 x 3000mm high	No	4		
	<b><u>Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval</u></b>				
J	Doors; both sides measured	sm	215		
	<i>Carried to Collection</i>				
	<b><u>COLLECTION</u></b>				
	From Page 6				
	From Page 7 (above)				
	<b>DOORS CARRIED TO FLOOR SUMMARY</b>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>ELEMENT NO. 5; WINDOWS</u></b>				
	<b><u>Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement (sand (1:3) mortar: pointed in matching coloured cement</u></b>				
A	250mm x 100mm thick cill	m	195		
	<b><u>Wrot mahogany: prime grade, selected</u></b>				
B	200mm x 20mm thick window board	m	195		
	<b><u>Prepare and apply one coat of aluminium wood primer on timber surfaces in contact with concrete or masonry surfaces</u></b>				
C	Over 100mm but not exceeding 200mm girth: window board	m	195		
	<b><u>Prepare surfaces: apply three coats polyurethane varnish on wood: to surfaces</u></b>				
D	Surfaces over 100mm but not exceeding 200mm girth: window board	m	195		
	<b><u>12mm thick one coat bed; wood floated to receive Precast window cills (m/s) ; to concrete or block work base ; generally to</u></b>				
E	Window cills; 200mm to 300mm wide	m	195		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<p><b><u>Supply and fix the following purpose made mild steel casement windows with 25mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250mm - 350mm horizontal and 250mm - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pinning fixing lugs to concrete or masonry work jambs; bedding in cement and sand (1:3) mortar, pointing all round frames in mastic, easing, oiling and adjusting opening lights on completion</u></b></p>				
A	2900mm x 2000mm overall height	No	20		
B	2900mm x 1500mm overall height	No	16		
C	6200mm x 1800mm overall height	No	2		
D	4850mm x 4000mm overall height	No	4		
E	4200mm x 4000mm overall height	No	4		
F	2950mm x 4000mm overall height	No	4		
G	1800mm x 1500mm overall height	No	8		
	<p><b><u>Glazing</u></b></p> <p><b><u>6mm thick glass and glazing to casements with linseed putty</u></b></p>				
H	Windows; pane size to Architect's details	sm	399		
	<p><b><u>6mm thick obscured glass and glazing to casements with linseed putty</u></b></p>				
J	Windows to washroom areas; pane size to Architect's details	sm	23		
	<p><b><u>Prepare surfaces, three coats gloss oil paint; spray painted to metal surfaces;</u></b></p>				
K	Windows, both sides measured	sm	844		
	<i>Carried to Collection</i>				
	<p><b><u>COLLECTION</u></b></p> <p>From Page 8</p> <p>From Page 9 (Above)</p>				
	<b>WINDOWS CARRIED TO SUMMARY</b>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>ELEMENT NO. 6; FINISHES</u></b>				
	<b><u>Floor finishes</u></b>				
	<b><u>Screed: cement and sand (1:4) on concrete: wood floated finished</u></b>				
A	25mm thick screed to receive granito tiles	sm	1842		
	<b><u>Granito Tiles</u></b>				
	<b><u>Approved tiles; premium quality; non slip granito floor tiles to regular or other approved pattern; bedding and jointing in cement sand (1:4) mortar; grouting with matching cement to:-</u></b>				
B	10mm thick to Floors level; internal	sm	460		
C	100mm high skirting	m	708		
	<b><u>Terrazzo paving</u></b>				
D	20mm thick terrazzo paving machine polished	sm	1382		
E	Dividing strips, PVC 3 x 25mm setting in terrazzo (provisional)	m	1201		
	<b><u>Wall and column finishes</u></b>				
	<b><u>Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to</u></b>				
F	Plaster to wall and columns finished smooth with steel trowel internally	sm	3159		
	<b><u>Backing: 12mm cement/sand (1:4): on masonry or concrete: wood float finished: to</u></b>				
G	Walls to receive ceramic tiles	sm	360		
	<b><u>Wall tiles</u></b>				
	<b><u>Supply and fix approved ceramic floor tiles to regular or other approved pattern; bedding and jointing in cement sand (1:4) mortar; grouting with matching cement to. Rates to include for plastic corner strip.</u></b>				
H	600mm x 300mm x 10mm wall tiles	sm	360		
	<i>Carried to Collection</i>				



Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>Painting</u></b>				
A	Prepare by skimming and apply an undercoat and two finishing coats of Acrylic Silk Vinyl paint on wall and coulumn surfaces	sm	3159		
	<b><u>EXTERNAL WALL FINISHES</u></b>				
	<b><u>External cement and sand(1:3) render: steel trowelled: on masonry or concrete: to</u></b>				
B	Walls and concrete surfaces	sm	763		
	<b><u>Prepare and apply waterproof external paints or equal and approved to Architect's approval: to</u></b>				
C	External walls	sm	763		
	<b><u>CEILING FINISHES</u></b>				
	<b><u>Plaster: 12 mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to</u></b>				
D	Soffit of suspended slab	sm	460		
	<b><u>Prepare surfaces: apply three coats Crown Solo vinyl emulsion paint or other equal approved: on steel trowelled plaster: to</u></b>				
E	Soffit of suspended slab	sm	460		
	<b><u>STAIRCASE FINISHES</u></b>				
	<b><u>Staircase finishes</u></b>				
	<b><u>Cement and sand mix (1:4) in:-</u></b>				
F	25mm thick screed to receive ceramic tiles	sm	23		
G	300mm wide staircase treads	m	195		
H	150mm high staircase risers	m	203		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>Ceramic Tiles</u></b>				
	<b><u>Supply and fix approved ceramic tiles; non-slip floor tiles; regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement. Rates to include for plastic corner strip.</u></b>				
A	600mm x 300mm x 10mm thick tiles	sm	23		
B	100mm high ceramic tile skirting to profile of staircase	m	35		
C	300mm wide ceramic tile staircase treads	m	195		
D	150mm high ceramic tile staircase risers	m	203		
E	Open strings of staircase 275mm wide	m	36		
	<b><u>Plaster: 9mm first coat of cement, lime putty and sand (1:2:9); 4 mm second coat of cement lime putty and sand (1:1:6): steel trowelled: to</u></b>				
F	Sloping soffits of staircases & strings	sm	65		
G	Soffits landings	sm	23		
	<b><u>Prepare surfaces: apply three coats Crown Solo vinyl emulsion paint or other equal approved: on steel trowelled plaster: to</u></b>				
H	Sloping soffits of staircases & strings	sm	65		
J	Soffits landings	sm	23		
	<b><u>Staircase railing</u></b>				
K	900mm high balustrading; mild steel balustrades and 75mm hardwood handrail, 25 mm diameter balusters at 200mm centres in 1000mm repetitive patterns with one end grouted to concrete floor and the other end welded handrail and bottom rails; all as per Architect's detail; spray painted to approval	m	59		
L	Provide a provisional sum of Kenya shillings Two Hundred Thousand (Kshs 200,000.00) for connection to the existing septic tank	Item			
	<i>Carried to Collection</i>				

PROPOSED CONSTRUCTION OF AGRICULTURAL ENGINEERING COMPLEX - PHASE 1

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<b><u>COLLECTION</u></b>				
	From Page 10				
	From Page 11				
	From Page 12 (above)				
	<b>FINISHES CARRIED TO FLOOR SUMMARY</b>				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	<p><b><u>PROPOSED AGRICULTURAL ENGINEERING WORKSHOP AT BUNGOMA NORTH TVC</u></b></p>				
	<p><b><u>GROUND FLOOR</u></b></p>				
	<p><b><u>SUMMARY</u></b></p>				
	<p><b><u>ELEMENT No.</u></b></p>		<p><b>PAGE No.</b></p>		
	<p>1. SUBSTRUCTURE</p>		<p>Page 3</p>		
	<p>2. REINFORCED CONCRETE SUPERSTRUCTURE</p>		<p>Page 4</p>		
	<p>3. WALLING</p>		<p>Page 5</p>		
	<p>4. DOORS</p>		<p>Page 7</p>		
	<p>5. WINDOWS</p>		<p>Page 9</p>		
	<p>6. FINISHES</p>		<p>Page 13</p>		
	<p><b><u>TOTAL MEASURED WORKS CARRIED TO MAIN SUMMARY</u></b></p>				

**MECHANICAL WORKS AT BUNGOMA NORTH TVC**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSH)
<b>A</b>	<b>WATER SUPPLY AND PLUMBING</b> Supply, deliver, install, test and commission galvanized steel tubing to BS 1387 medium grade with screwed and socketed joints and galvanized cast iron fittings to BS 143 and 1256. Tenders must allow in their pipe work prices for all the couplings, connectors, unions ,joints etc as required in the normal running length of pipe work and also where necessary for pipe fixing clips holder bats and screws pipe sleeves through structured members.				
1:01	15mm diameter GMS class B pipe	Lm	30		
1:02	20mm diameter GMS class B pipe	Lm	42		
1:03	25mm diameter GMS class B pipe	Lm	20		
1:04	32mm diameter GMS class B pipe	Lm	150		
	<b>EXTRA OVER GMS PIPING FOR THE FOLLOWING GI ELBOW</b>				
1:05	15mm GI elbow	No	24		
1:06	20mm GI elbow	No	18		
1:07	25mm GI elbow	No	12		
1:08	32mm GI elbow	No	6		
	<b>GI BENDS</b>				
1:09	15mm GI bends	No	24		
1:10	20mm diameter GI bends	No	18		
1:11	25mm diameter GI Bends	No	12		
1:12	32mm diameter GI Bends	No	6		

item	description	unit	qty	rate	amount
	<b>GI TEE EQUAL</b>				
1:13	15mm diameter GI equal	No	8		
1:14	20mm diameter GI Equal	No	6		
1:15	25mm diameter GI Equal	No	10		
1:16	32mm diameter GI Equal	No	0		
	<b>GI PIPE REDUCER</b>				
1:17	20 x 15mm diameter GI pipe reducer	No	4		
1:18	25 x 20mm diameter GI pipe reducer	No	4		
1:19	32 x 25mm diameter GI pipe reducer	No	4		
	<b>Gi unions</b>				
1:20	15mm diameter GI unions	No	12		
1:21	20mm diameter GI union	No	8		
1:22	25mm diameter GI union	No	0		
1:23	32mm diameter GI union	No	20		
	<b>GI NIPPLE</b>				
1:24	15mm diameter GI nipple	No	6		
1:25	20mm diameter GI nipple	No	4		
1:26	25mm diameter GI nipple	No	0		
	<b>B GATE VALVE</b>				
2:01	15mm diameter approved high pressure cast brass, full way gate valve to BS 1212 class 125 with wheel head, non rising spindle guided wedge and tapered stubs threads as PEGLER or equal to be approved.	No	4		
2:02	12mm diameter angle valve				
2:03	20mm diameter ditto	No	8		
2:04	25mm diameter ditto	No	4		
		No	2		
2:05	32mm diameter ditto	No	4		

item	description	unit	qty	rate	amount
3.00	<b>ELEVATED WATER STORAGE TANK</b> Plastic water storage tank as made by ROTO or equal and approved, capacity 5000litres model CV 92 complete with 20mm inlet connection, 32mm outlet connection, 32mm overflow connection and all necessary accessories all hoisted onto a suspended slab	No	2		
3:01	<b>BALL VALVE</b> 20mm diameter treaded brass stem low pressure ball valve with delayed action with 20mm shrank GI Socket and back nuts complete with silencer rod 400mm long and ball float as PEGLER or equal and approved	No	2		
<b>C</b>	<b>SANITARY FITTINGS</b> Supply, deliver, install, test and commission the following sanitary fittings, including their support brackets, fixing screws etc and connection to the water supply and waste drainage.				
4:01	<b>URINAL BOWL</b> Urinal range in white vitreous china clay comprising of 4No Bowls complete with bowl supports ,3no divider, 7.5 litres capacity automatic ceramic cistern ref CX8611WFL and fittings including syphon ball valve, cistern supports and drip tap in brass, chrome plated bottle trap and plush pipe spreader Ref SS6071SS with all the necessary connections, wall supports asTWYFORDS Camdem or approved equivalent.	No	1		
4:02	<b>SQUATTING WATER CLOSET SUITE</b> in white vitreous china clay comprising of WC bowl with top plate and integral foot threads trap connector as twyfords or equal to be approved.	No	5		
4:03	<b>TOILET FLUSH VALVE</b> high pressure model as cobra size 32mm diameter complete with flush pipe.	No	5		
4:04	External water stand pipe 1200mm from the ground level by GI pipe class B complete with tap.	No	8		

item	description	unit	qty	rate	amount
4:05	<p><b>DISABLED PERSONS WATER CLOSET AND WASH HAND BASIN FACILITY</b>  Wheel chair accessible W.C facility comprising close coupled WC with 7.5 litre cistern with bottom of the following: inlet and overflow. The bowl shall be of size 375 x 560 x 420mm high. The bowl and cistern shall be manufactured from vitreous china complying with BS 3402.</p> <p>The unit shall be complete with valvesless cistern fitting including siphon, ½' side inlet ball, ¾' side overflow, plastics flush bend, inlet connector and reversible mettalic chrome plated cistern lever.there shall also be a heavy duty seat(25mm high) and cover with chrome plated metal hinges, toilet roll holder, 610 x 450 x 6mm thick mirror, robe hook, and holding rail brackets.32mm diameter bottle trap with75mm seal, chain waste and a set of fixing brackets.</p>	No	2		
4:06	<p>Twyfords white vitreous china clay <b>wash hand basin</b> size to bs 1188 pedestrian complete with chrome plated basin waste 32mm diameter stay and chain pvc waste plug single platted pillar tap to bs 1010 as bricon size 15mm diameter chrome plated bottle trap size 32mm diameter flexible pipe fixing screws and brackets or equal to be approved</p>	No	6		
4:07	<p>Twyfords <b>mirror</b> ref no 58364ss plain beveled glass plate size 420mm x 600mm x 6mm thick supplied with dome headed chrome plated fixing screws/ stainless steel fixing brackets or equal to be approved.</p>	NO	4		
4:08	<p><b>TOILET ROLL HOLDER</b> in white vitreous china clay material ref no 16336 and fixing to wall including forming recess to size 150mm x 150mm or equal to be approved.</p>	NO	8		
4:09	<p><b>SOAP DISPENSER</b> wall mounted soap dispenser with a capacity of 1.5 litres having a press action soap release mechanism complete with fixing screws allow for initial soap supply as starmix or equal to be approved.</p>	No	8		



item	description	unit	qty	rate	amount
4:10	<b>WORKSHOP SINK</b> Single bowl single drain sbsd stainless steel workshop sink as caradon sapphire heavy duty to bs 1244 size 1000 x 500mm with bowl size 420mm x 345mm complete with single chrome plated bib tap as bricon. Size 12mm diameter. Chrome plated sink waste size 32mm diameter cast brass p trap size 40mm diameter with roding eye overflow facility on the work top and all accessories or equal to be approved.	No	6		
D	<b>INTERNAL DRAINAGE WORKS</b> Supply, deliver, install, test and commission upvc and mupvc piping as ppr -20.The prices should include coupling, connectors, unions, jointing etc as required in the normal running lengths of pipework and also where necessary for pipe fixing clips, holder bats plugs screws and pipe sleeves through structural members.				
5:00	100mm diameter tee heavy duty (grey)	No	5		
5:01	50mm diameter tee heavy duty	No	12		
5:02	50mm diameter heavy duty pn-20	Lm	15		
5:03	100mm diameter heavy duty (grey)	Lm	10		
5:04	100mm diameter heavy duty class 41	Lm	20		
5:05	150mm diameter heavy duty class 41	Lm	15		
5:06	<b>PVC 100mm FLOOR TRAP</b> as metro complete with cover grating to match floor finish or equal to be approved.	No	14		
E	<b>EXTERNAL DRAINAGE WORKS</b> Standard rectangular manhole consisting of 100mm concrete 1:3:6 bed benching. 200mm solid concrete wall. Cement and sand1:4 water proof rendering internally. Standard heavy duty cover and frame. Bs 497 holes for extra large pipes. Channel beds excavations and disposals.				
6:00	1. 600mm x 600mm	No	4		
6:01	2. 600mm x 450mm	No	6		

item	description	unit	qty	rate	amount
	<b>EXTERNAL DRAINAGE WORKS</b>				
	Supply and install the following				
6:02	100mm diameter heavy duty golden brown upvc class 41 in trenches of average 450mm depth on murrum bases	Lm	50		
6:03	150mm diameter heavy duty golden brown upvc class 41 in trenches of average depth 450mm on murrum bases.	Lm	30		
6:04	150mm diameter upvc tees	No	4		
6:05	100mm diameter upvc Tees	No	4		
6:06	150mm diameter bends	No	4		
6:07	100mm diameter bends	No	8		
6:08	150mm diameter access bends	No	2		
6:09	100mm diameter upvc access bends	No	8		
6:10	100mm diameter vent crawl	No	3		
6:11	50mm diameter heavy duty grey upvc class 41	Lm	40		
6:12	50mm diameter Tees	No	12		
6:13	50mm diameter bends.	No	10		
6:14	50mm diameter access bends.	No	12		
6:15	<b>PVC GULLEY TRAP</b> size 100mm diameter complete with excavation and masonry walling size 450mm x 300mm x 300mm with precast reinforced concrete cover in rebate cut to pipe profile or equal and approved.	No	8		

item	description	unit	qty	rate	amount
<b>F</b>	<b>FIRE FIGHTING HOSE REELS</b>				
7:00	Supply and install Make: similar or equal to be approved to "TG" series Hose Reels type with the following characteristics: Manual operation swinging type Delivery valves 25mm BSP inlet to BS1010 Mild steel feed to BS 138	No	2		
7:01	<b>FIRE FIGHTING BOOSTER PUMP</b> Shall be as : GRUNDFOS" automatic booster pump Model:CM10-2A. Capacity: 10m <sup>3</sup> /h. against head of 25m and duty and stand by power supply:1.3kw x 2 single phase 240v, 50hz. Complete with pressure switch, pressure cell control panel valves and any other accessories necessary for efficient operation or equal and approved.	No	2		
	<b>HOSE REEL PIPE WORK</b> Supply ,deliver install test and commission galvanized mild steel tubing to BS1387 medium grade with screwed and socketed joints to bs 21 and galvanized cast iron fittings. Tenders must allow for pipe work process for all the couplings, connectors unions jointings etc as required in the normal running length of pipe work and also where necessary for pipe fixing clips holder bats plugs screws and pipe sleeves through structural members.				
7:02	20mm diameter GMS pipes class B	lm	10		
7:03	Ditto 25mm	lm	12		
7:04	Ditto 50mm	lm	10		
7:05	EXTRA OVER GMS 20mm diameter bends	No	8		
7:06	Ditto 25mm	No	10		
7:07	Ditto 50mm	No	2		

item	description	unit	qty	rate	amount
	<b>HOSEL REEL PIPE WORK CONTINUED</b>				
7:08	50 x 25mm reducer	No	1		
7:09	25 x 20mm reducer	No	2		
7:10	Union 20mm diameter	No	3		
7:11	Union 25mm diameter	No	3		
7:12	Union 50mm diameter	No	6		
7:13	20mm diameter elbow	No	7		
7:14	25mm diameter elbow	No	4		
7:15	50mm diameter elbow	No	4		
7:16	20mm diameter nipple	No	6		
7:17	25mm diameter nipple	No	4		
7:18	50mm diameter nipple	No	6		
8:00	<b>BRASS GATE VALVE</b> 20mm diameter approved cast iron high pressure screw down fullway non rising stem solid wedge disc gate valve to BS5154 PN16 for series B rating with hand wheel head and jointing to steel tubing as crane model number 156 or equal to be approved	No	3		
8:01	Ditto but 50mm	No	3		
8:02	<b>NON RETURN VALVE</b> 50mm diameter screwed in cap lift type metal disc bronze non return valve to BS 5154PN 32 for series B rating as crane model no D105 or equal to be approved	No	3		

item	description	unit	qty	rate	amount
8:03	<b>PROTECTION PAINTING</b> Allow for painting the pipes with two coats of appropriate shade of FIRE RED after cleaning and smoothening.	Item	1		
<b>G</b>	<b>PORTABLE FIRE EXTINGUISHERS</b> Supply deliver install portable fire extinguisher and conforming to bs EN3/BS 1449				
9:00	9 kg ABC foam portable fire extinguisher complete with pressure gauge initial charge and mounting brackets.	No	2		
9:01	5kg carbon dioxide gas portable fire extinguisher complete with pressure gauge initial charge and mounting brackets.	No	2		
9:02	9" (225mm) manual operated alarm bell (GONG).	No	1		
9:03	<b>FIRE NOTICES</b> Allow for fire signage and fire instructions as directed by the project Engineer.	item	1		
9:04	<b>AIR CONDITIONER( AC)</b> Split air conditioner as LG S 4 NQ 24K23 QD 24K BTU INVERTER AC with (GEN MODE) . with the following specifications: Cooling only, dual low power inverter compressor, plasma air purifying system, auto restart, jet cool, sleep mode dual filter, smart display, wireless remote, etc approved. warranty: 12 months.	No	1		

ITEM	DESCRIPTION	AMOUNT KSH
1	Brought down from page 1	
2	Brought down from page 2	
3	Brought down from page 3	
4	Brought down from page 4	
5	Brought down from page 5	
6	Brought down from page 6	
7	Brought down from page 7	
8	Brought down from page 8	
9	Brought down from page 9	
	<b>GRAND TOTAL</b>	

# BILL NO. 3

THE PROPOSED CONSTRUCTION OF  
AGRICULTURAL ENGINEERING  
COMPLEX- BUNGOMA  
ELECTRICAL INSTALLATION WORKS

*TENDER SPECIFICATIONS & BILLS OF  
QUANTITIES FOR SUPPLY, INSTALLATION,  
TESTING AND COMMISSIONING OF  
ELECTRICAL INSTALLATION WORKS*

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SECTION A

INSTRUCTIONS TO TENDERERS

INSTRUCTIONS TO TENDERERS

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AWARD OF CONTRACT

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# INSTRUCTION TO TENDERERS

**Note:**

This criterion shall be used to evaluate the bidders proposed to carry out the specialized works who shall be domestic subcontractors to the main bidder on award of the contract.

## TENDER EVALUATION CRITERIA

After tender opening, the tenders will be evaluated in 2 stages, namely:

1. Preliminary Evaluation;
2. Technical Evaluation;

## **STAGE 1: PRELIMINARY EVALUATION**

This stage of evaluation shall involve examination of the mandatory requirements as set out in the Tender Advertisement Notice or Letter of Invitation to Tender and any other conditions stated in the bid document.

These conditions shall include the following:

S/No	MANDATORY REQUIREMENTS(MR)
MR1	Valid Copy of certificate of incorporation/ Registration.
MR2	Valid Current Tax Compliance Certificate from Bidding Company, and if Consortium, from each member of the consortium.
MR3	Submission of valid CR12 form showing the list of directors /shareholding (issued within the last 12 months) or National Identity Card(s) for Sole Proprietorship / Partnership
MR4	Valid copy of NCA Registration Certificate, NCA 7 and above in Electrical Installation works
MR5	Current annual NCA practicing license
MR6	Current Certificate for Energy & Petroleum Regulatory Authority (EPRA C-1 and Above)
MR8	Duly signed Statement of Compliance;
MR9	Compliance to Technical Specifications
MR10	Domestic sub-contractors must sign and stamp the summary page of their respective specialist works on the tender document.

Note:

*On compliance with Technical Specifications, bidders shall supply equipment/items which comply with the technical specifications set out in the bid document. In this regard, the bidder will be required to submit relevant technical brochure/catalogues with the tender document, highlighting (using a mark-pen or highlighter) the Catalogue Number/model of the proposed items. Such brochures/ catalogues should indicate comprehensive relevant data of the proposed equipment/items which should include but not limited to the following:*

- (i) Standards of manufacture;*
- (ii) Performance ratings/characteristics;*
- (iii) Material of manufacture;*
- (iv) Electrical power ratings; and*
- (v) All other requirements as indicated in the technical specifications of the bid.*

The bids will then be analyzed, using the information in the technical brochures, to determine compliance with technical specifications for the works/items as indicated in the tender document. Bidders not complying with any of the technical specifications shall be adjudged technically non-responsive while those meeting all technical specifications shall be considered technically responsive.

The tenderer shall also fill in the Technical Schedule as specified in the tender document for Equipment and Items indicating the Country of Origin, Model/Make/Manufacturer and catalogue numbers of the Items/Equipment they propose to supply.

The tenderers who do not satisfy any of the above mandatory requirements shall be considered Non-Responsive and their tenders will not be evaluated further.

# **STAGE 2: TECHNICAL EVALUATION**

The tenderer shall be required to fill Standard Forms Provided in the bid document for the purpose of providing information to assess their experience and personnel capacity in carrying out the works defined in the bid document. The tenderers may also attach the required information if they so desire;

The award of points considered in this section shall be as shown below:

<u><b>PARAMETER</b></u>	<u><b>MAXIMUM POINTS</b></u>
(i) Key personnel .....	20
(ii) Contract Completed in the last Five (5) years .....	18
(iii) Schedules of on-going projects .....	5
(iv) Schedules of contractor's equipment .....	9
(v) Litigation History .....	3
<b>TOTAL</b>	<b><u>55</u></b>

The pass-mark under the Technical Evaluation is 40 Points. The

detailed scoring plan shall be as shown in table 1. TABLE 1:

Assessment for Eligibility

Item	Description	Points Scored	Max. Point	
1.	Key Personnel (Attach evidence)			20
	Director of the firm <ul style="list-style-type: none"> <li>• Holder of degree in relevant Engineering field ----- 5</li> <li>• Holder of diploma in relevant Engineering field -----4</li> <li>• Holder of certificate in relevant Engineering field ----- 3</li> <li>• Holder of trade test certificate in relevant Engineering field -----2</li> <li>• No relevant certificate ----- 1</li> </ul>		5	
	At least 1No. degree/diploma holder of key personnel in relevant field <ul style="list-style-type: none"> <li>• With over 10 years relevant experience -----5</li> <li>• With over 5 years relevant experience -----3</li> <li>• With under 5 years relevant experience ----- 2</li> </ul>		5	
	At least 1No certificate holder of key personnel in relevant field <ul style="list-style-type: none"> <li>• With over 10 years relevant experience -----5</li> <li>• With over 5 years relevant experience -----3</li> <li>• With under 5 years relevant experience ----- 2</li> </ul>		5	

	At least 2 No artisan (trade test certificate in relevant field) <ul style="list-style-type: none"> <li>• Artisan with over 10 years relevant experience----- 5</li> <li>• Artisan with under 10 years relevant experience -----3</li> <li>• Non skilled worker with over 10 years relevant experience----- 2</li> </ul>		5	
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Item	Description	Points Scored	Max. Point
2.	Contracts completed in the last five (5) years (Max of 3No. Projects)- <u>Provide Evidence</u> <ul style="list-style-type: none"> <li>• Project of similar nature, complexity or magnitude -----6</li> <li>• Project of similar nature but of lower value than the one in consideration-----4</li> <li>• No completed project of similar nature -----0</li> </ul>		18
3.	On-going projects – Provide Evidence <ul style="list-style-type: none"> <li>• No Project of similar nature, complexity and magnitude-----0</li> <li>• Three and below Projects of similar, nature complexity and magnitude ----- 3</li> <li>• Four and above Projects of similar nature, complexity and magnitude ----- 5</li> </ul>		5
4.	Schedule of contractor’s relevant equipment (at least 3No.) <ul style="list-style-type: none"> <li>• Has relevant equipment for work being tendered----- 3</li> <li>• No relevant equipment for work being tendered ----- 0</li> </ul>		9
5.	Litigation History <ul style="list-style-type: none"> <li>• Filled, Signed and Stamped ----- 3</li> <li>• Not filled----- 0</li> </ul>		3
	TOTAL		55

Any bidder who scores 40 points and above shall be considered for further evaluation.

SECTION B

GENERAL SPECIFICATIONS

OF

MATERIALS AND WORKS



## **GENERAL SPECIFICATIONS OF MATERIALS AND WORKS**

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- 2.3 Workmanship
- 2.4 Procurement of Materials
- 2.5 Shop Drawings
- 2.6 Record Drawings
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- 2.10 M.C.B Distribution Panels and Consumer Units
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- 2.13 Conduit Boxes and Accessories
- 2.14 Labels
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- 2.16 Cables and Flexible Cords
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- 2.18 Cable Supports; Markers and Tiles
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- 2.34 lighting Fittings Street Lighting Lanterns
- 2.35 Position of Points and Switches
- 2.36 Street/Security Lighting Columns
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- 2.39 Metal control Pillar
- 2.40 Current Operated Earth leakage circuit breaker
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- 2.42 Steel Conduits and Steel Trunking
- 2.43 Testing on Site

## 2.1 **GENERAL**

This specification is to be read in conjunction with the drawings which are issued with it. Bills of quantities shall be the basis of all additions and omissions during the progress of the works.

## 2.2 **STANDARD OF MATERIALS**

Where the material and equipment are specifically described and named in the Specification followed by approved equal, they are so named or described for the purpose of establishing a standard to which the sub-contractor shall adhere.

Should the Sub-contractor install any material not specified herein before receiving approval from the proper authorities, the Engineer shall direct the Sub-contractor to remove the material in question immediately. The fact that this material has been installed shall have no bearing or influence on the decision by the Engineer.

All materials condemned by the Engineer as not approved for use, are to be removed from the premises and suitable materials delivered and installed in their place at the expense of the Sub-contractor. All materials required for the works shall be new and the best of the respective kind and shall be of a uniform pattern.

## 2.3 **WORKMANSHIP**

The workmanship and method of installation shall conform to the best standard practice. All work shall be performed by a skilled tradesman and to the satisfaction of the Engineer. Helpers shall have qualified supervision.

Any work that does not in the opinion of the Engineer conform to the best standard practice will be removed and reinstated at the Sub-contractor's expense.

Permits, Certificates or Licenses must be held by all tradesmen for the type of work; in which they are involved where such permits, certificates or licenses exist under Government legislation.

## 2.4 **PROCUREMENT OF MATERIALS**

The sub-contractor is advised that no assistance can be given in the procurement or allotment of any materials or products to be used in and necessary for the construction and completion of the work.

Sub-contractors are warned that they must make their own arrangements for the supply of materials and/or products specified or required.

## 2.5 **SHOP DRAWINGS**

Before manufacture or Fabrication is commenced the sub-contractor shall submit Two copies of detailed drawings of all control pillars, meter cubicles, medium voltage switchboards including their components showing all pertinent information including sizes, capacities, construction details, etc., as may be required to determine the suitability of the equipment for the approval of the Engineer. Approval of the detailed drawings shall not relieve the sub-contractor of the full responsibility of errors or the necessity of checking the drawings himself or of furnishing the materials and equipment and performing the work required by the plans and specifications.

## 2.6 **RECORD DRAWINGS**

These diagrams and drawings shall show the completed installation including sizes, runs and arrangements of the installation. The drawings shall be to scale not less than 1:50 and shall include plan views and section.

The drawings shall include all the details which may be useful in the operation, maintenance or subsequent modifications or extensions to the installation.

Three sets of diagrams and drawings shall be provided, all to the approval of the Engineer.

One coloured set of line diagrams relating to operating and maintenance instructions shall be framed and, mounted in a suitable location.

## 2.7 **REGULATIONS AND STANDARDS**

All work executed by the Sub-contractor shall comply with the current edition of the "Regulations" for the Electrical Equipment of Buildings, issued by the Institution of Electrical Engineers, and with the Regulations of the Local Electricity Authority.

Where the two sets of regulations appear to conflict, they shall be clarified with the Engineers. All materials used shall comply with relevant Kenya Bureau of Standards Specification.

## 2.8 **SETTING OUT WORK**

The sub-contractor at his own expenses; is to set out works and take all measurements and dimensions required for the erection of his materials on site; making any modifications in details as may be found necessary during the progress of the works, submitting any such modifications or alterations in detail to the Engineer before proceeding and must allow in his Tender for all such modifications and for the provision of any such sketches or drawings related thereto.

## 2.9 **POSITIONS OF ELECTRICAL PLANT AND APPARATUS**

The routes of cables and approximate positions of switchboards etc, as shown on the drawings shall be assumed to be correct for purpose of Tendering, but exact positions of all electrical Equipment and routes of cables must be agreed on site with the Engineer before any work is carried out.

## 2.10 **MCB DISTRIBUTION PANELS AND CONSUMER UNITS**

All cases of MCB Panels and consumer units shall be constructed in heavy gauge sheet with hinged covers.

Removable undrilled gland plates shall be provided on the top and bottom of the cases. Miniature circuit breakers shall be enclosed in moulded plastic with the tripping mechanism and arc chambers separated and sealed from the cable terminals.

The operating dolly shall be tripfree with a positive movement in both make and break position. Clear indication of the position of the handle shall be incorporated.

The tripping mechanism shall be on inverse characteristic to prevent tripping in temporary overloads and shall not be affected by normal variation in ambient temperature.

A locking plate shall be provided for each size of breaker; A complete list of circuit details on typed cartridge paper glued to stiff cardboards and covered with a sheet of Perspex, and held in position with four suitable fixings, shall be fitted to the inner face of the lids of each distribution panel. The appropriate MCB ratings shall be stated on the circuit chart against each circuit in use: Ivorine labels shall be secured to the insulation barriers in such a manner as to indicate the number of the circuits shown on the circuit chart.

Insulated barriers shall be fitted between phases, and neutrals in all boards, and to shroud live parts.

Neutral cables shall be connected to the neutral bar in the same sequence as the phase cables are connected to the MCB's. This shall also apply to earth bars when installed.

## 2.11 **FUSED SWITCHGEAR AND ISOLATORS**

All fused switchgear and isolators whether mounted on machinery, walls or industrial panels shall conform to the requirements of KS 04 – 226 PART: 1: 1985.

All contacts are to be fully shrouded and are to have a breaking capacity on manual operations as required by KS 04 – 182: 1980.

Fuse links for fused switches are to be of high rupturing capacity cartridge type, conforming to KS 04 – 183: 1978.

Isolators shall be load breaking/fault making isolators.

Fused switches and isolators are to have separate metal enclosures. Mechanical interlocks are to be provided between the door and main switch operating mechanism so arranged that the door may not be opened with the switch in the 'ON' position. Similarly; it shall not be possible to close the switch with the door open except that provision to defeat the mechanical interlock and close the switch with the door in the open position for test purposes. The 'ON' and 'OFF' positions of all switches and isolators shall be clearly indicated by a mechanical flag indicator or similar device. In T.P & N fused switch units, bolted neutral links are to be fitted.

## 2.12 **CONDUITS AND CONDUIT RUNS**

Conduit systems are to be installed so as to allow the loop-in system of wiring:

All conduits shall be black rigid super high impact heavy gauge class 'A' PVC in accordance with KS 04 – 179: 1988 and IEE Regulations. No conduit less than 20mm in diameter shall be used anywhere in this installation.

Conduit shall be installed buried in plaster work and floor screed except when run on wooden or metal surface when they will be installed surface supported with saddles every 600mm. Conduit run in chases shall be firmly held in position by means of substantial pipe hooks driven into wooden plugs.

The Sub-contractor's attention is drawn to the necessity of keeping all conduits entirely separate from other piping services such as water and no circuit connections will be permitted between conduits and such pipes.

All conduits systems shall be arranged wherever possible to be self-draining to switch boxes and conduit outlet points for fittings:

The systems, when installed and before wiring shall be kept plugged with well fitting plugs and when short conduit pieces are used as plugs, they shall be doubled over and tied firmly together with steel wire; before wiring all conduit systems shall be carried out until the particular section of the conduit installation is complete in every respect.

The sets and bends in conduit runs are to be formed on site using appropriate size bending springs and all radii of bends must not be less than 2.5 times the outside diameter of the conduit. No solid or inspection bends, tees or elbows will be used.

Conduit connections shall either be by a demountable (screwed up) assembly or adhesive fixed and water tight by solution. The tube and fittings must be clean and free of all grease before applying the adhesive. When connections are made between the conduit and switch boxes, circular or non-screwed boxes, care shall be taken that no rough edges of conduit stick out into the boxes.

Runs between draw in boxes are not to have more than two right angle bends or their equivalent. The sub-contractor may be required to demonstrate to the Engineers that wiring in any particular run is easily withdrawable and the sub-contractor may, at no extra cost to the contract; be required to install additional draw-in boxes required. If conduit is installed in straight runs in excess of 6000mm, expansion couplings as manufactured by Egatube shall be used at intervals of 6000mm.

Where conduit runs are to be concealed in pillars and beams, the approval of the Structural Engineer, shall be obtained. The sub-contractor shall be responsible for marking the accurate position of all holes chases etc, on site, or if the Engineer so directs, shall provide the Main Contractor with dimensional drawings to enable him to mark out and form all holes and chases. Should the sub-contractor fail to inform the main contractor of any inaccuracies in this respect they shall be rectified at the sub-contractor's expense.

It will be the Sub-contractor's responsibility to ascertain from site, the details of reinforced concrete or structural steelwork and check from the builder's drawings the positions of walls, structural concrete and finishes. No reinforced concrete or steelwork may be drilled without first obtaining the written permission of the Structural Engineer.

The drawings provided with these specifications indicate the appropriate positions only of points and switches, and it shall be the Sub-Contractors responsibility to mark out and centre on site the accurate positions where necessary in consultation with the Architect and the Engineer. The sub-contractor alone shall be responsible for the accuracy of the final position.

## 2.13 **CONDUIT BOXES AND ACCESSORIES**

All conduit outlets and junction boxes are to be either malleable iron and of standard circular pattern of the appropriate type to suit saddles being used or super high impact PVC manufactured to KS 04 – 179 : 1983.

Small circular pattern boxes are to be used with conduits up to and including 25mm outside diameter. Rectangular pattern adaptable boxes are to be used for conduits of 32mm outside diameter and larger. For drawing in of cables in exposed runs of conduit, standard pattern through boxes are to be used:

Boxes are to be not less than 50mm deep and of such dimensions as will enable the largest appropriate number of cables for the conduit sizes to be drawn in without excessive bending.

Outlet boxes for lighting fittings are to be of the loop-in type where conduit installation is concealed and the sub-contractor shall allow one such box per fitting, except where fluorescent fittings are specified when two such boxes per fitting shall be fitted flush with ceiling and if necessary fitted with break joint rings. Pattresses shall be fitted where required to outlets on surface conduit runs.

Adaptable boxes are two of PVC or mild steel (of not less than 12swg) and black enamelled or galvanised finish according to location. They shall be of square or oblong shape location. They shall be of square or oblong shape complete with lids secured by four 2 BA brass roundhead screws; No adaptable box shall be less than 75mm x 75mm x 50mm or larger than 300mm x 300mm x 75mm and shall be adequate in depth in relation to the size of conduit entering it. Conduits shall only enter boxes by means of conduit bushes.

#### 2.14 **LABELS**

Labels fitted to switches and fuse boards; -

- (i) Shall be Ivory engraved black on white.
- (ii) Shall be secured by R.H brass screws of same manufacturing throughout.
- (iii) Shall be indicated on switches: -
  - a) Reference number of switch
  - b) Special current rating
  - c) Item of equipment controlled
- (iv) Shall indicate on MCB panels
  - a) Reference number
  - b) Type of board, i.e.; lighting, sockets, etc.
  - c) Size of cable supplying panel
  - d) where to isolate feeder cable
- (v) Shall be generally not less than 75mm x 50mm.

#### 2.15 **EARTHING**

The earthing of the installation shall comply with the following requirements; -

- (i) It shall be carried out in accordance with the appropriate sections of the current edition of the Regulations, for the Electrical Equipment of Buildings issued by Institute of Electrical Engineers of Great Britain.

- (ii) At all main distribution panels and main service positions a 25mm x 3mm minimum cross sectional area Copper tape shall be provided and all equipment including the lead sheath and armouring of cables, distribution boards and metal frames shall be bonded thereto.
- (iii) The earth tape in Sub-clause (ii) shall be connected by means of a copper tape or cable of suitable cross sectional area to an earth electrode which shall be a copper earth rod (see later sub-clause).
- (iv) All tapes to be soft high conductivity copper, untinned except where otherwise specified and where run underground on or through walls, floors, etc., it shall be served with corrosion resisting tape or coated with corrosion compound and braided
- (v) Where the earth electrode is located outside the building a removable test link shall be provided inside the building as near as possible to the point of entry to the tape, for isolating the earth electrode for testing purposes.
- (vi) Earthing of sub-main equipment shall be deemed to be satisfactory where the sub-main cables are M.I.C.S. or conduit with separate earth wire, and installation is carried out in accordance with the figures stated in the current edition of the I.E.E Regulations.
- (vii) Where an earth rod is specified (see Sub-clause (iii) it shall be proprietary manufacture, solid hand drawn copper of 15mm diameter driven into the ground to a minimum depth of 3.6M. It shall be made up to 1.2m sections with internal screw and socket joints and fitted with hardened steel tip and driving cap.
- (viii) Earth plates will not be permitted
- (ix) Where an earth rod is used the earth resistance shall be tested in the manner described in the current edition of the IEE Regulations, by the Sub-Contractor in the presence of the Engineer and the Sub-Contractor shall be responsible for the supply of all test equipment.
- (x) Where copper tape is fixed to the building structure it shall be by means of purpose made non-ferrous saddles which space the conductor away from the structure a minimum distance of 20mm. Fixings, shall be made using purpose made plugs; No fixings requiring holes to be drilled through the tape will be accepted.
- (xi) Joints in copper tape shall be tinned before assembly riveted with a minimum of two copper rivets and seated solid.
- (xii) Where holes are drilled in the earth tape for connection to items of equipment the effective cross sectional area must not be less than required to comply with the IEE regulations.
- (xiii) Bolts, nuts and washers for any fixing to the earth tape must be of non-ferrous material.
- (xiv) Attention is drawn to the need for the earthing metal parts of lighting fittings and for bonding ball joint suspension in lighting fittings.



## 2.16 **CABLES AND FLEXIBLE CORDS**

All cables used in this Sub-Contract shall be manufactured in accordance with the current appropriate Kenya standard Specification which are as follows:-

P.V.C. Insulated Cables and Flexible Cords	---	Ks 04-192:1988
P.V.C Insulated Armoured Cables	---	Ks 04-194:1990
Armouring of Electric cables	---	Ks 04-290:1987

The successful Sub-Contractor will, at the Engineers discretion be required to submit samples of cables for the Engineers approval; the Engineer reserves the right to call for the cables of an alternative manufacture without any extra cost being incurred.

P.V.C. insulated cables shall be 500/1000 volt grade. No cables smaller than 1.5mm<sup>2</sup> shall be used unless otherwise specified. The installation and the finish of cables shall be as detailed in later clauses. The colour of cables shall conform to the details stated in the "Cable Braid and insulation Colours" Clause.

## 2.17 **ARMoured P.V.C. INSULATED AND SHEATHED CABLES:**

Shall be 600/1000 volt grade manufactured to Ks 04-194:1988 and Ks 04-187/188 with copper stranded conductors.

The wire armour of the cable shall be used wholly as an earth continuity conductor and the resistance of the wire armour shall have a resistance not more than twice of the largest current carrying conductor of the cable.

P.V.C./S.W.A./P.V.C. cables shall be terminated using "Telecom" "B" type or approved equal or approved equal glands and a P.V.C. tapered sleeve shall be provided to shroud each gland.

## 2.18 **CABLE SUPPORTS, MARKERS AND TILES**

All PVC/SWA/PVC cables run inside the building shall be fixed in rising ducts or on ceilings by means of die cast cable hooks or clamps, of appropriate size to suit cables, fixed by studs and back nuts to their channel sections.

Alternatively, fixing shall be by BICC claw type cleating system with die-cast cleats and galvanised mild steel back straps or similar approved equal method. For one or two cables run together the cleats shall be fixed a special channel section supports or backstraps described above which shall in turn be secured to walls or ceilings of ducts by rawbolts.

In excessively damp or corrosive atmospheric conditions special finishes may be required and the Sub-contractor shall apply to the Engineer for further instructions before ordering cleats and channels for such areas.

The above type of hooks and clamps and channels or cleats and blackstraps shall also be used for securing cables in vertical ducts.

Cables supports shall be fixed at 600mm maximum intervals, the supports being supplied and erected under this Sub-contract. Saddles shall not be used for supporting cables nor any other type of fixing other than one of the two methods described above or other system which has received prior approval of the Engineer;

Cables are to be kept clear of all pipe work and the Sub-contractor shall work in close liaison with other services Sub-contractors.

The Sub-Contractor shall include for the provision of fixing of approved type coloured slip on cables end markers to indicate permanently the correct phase and neutral colours on all ends.

Provision shall be made for supplying and fixing approved non-corrosive metal cable markers to be attached to the outside of all PVC/SWA/PVC cables at 15mm intervals indicating cable size and distinction.

Where PVC/SWA/PVC cables are outside the building they shall be laid underground 750mm deep with protecting concrete interlocking cover tiles laid over which shall be provided and laid under this Sub-contract.

All necessary excavations and reinstatement of ground including sanding or trenches will be carried out by the Sub-Contractor, unless otherwise stated.

**2.19 PVC INSULATED CABLES**

Shall be of non-braided type as CMA reference 6491 x 600/1000/1000-volt grade cables, or equal approved.

PVC cables shall conform to the details of the “Cables and Flexible cords” and “Cable Braid and Insulation Colours” clauses.

**2.20 HEAT RESISTING CABLES**

Final connections to cookers, water heaters, etc., shall be made using butyl rubber insulated cable as CMA reference 610 butyl (Single core 600/1000 Volt).

This type of cable shall be used in all instances where a temperature exceeding 100°F, but not exceeding 150°F is likely to be experienced. Final connections to all lighting fittings (and other equipment where a temperature in excess of 150°C likely to be experienced) shall be made using silicon rubber insulated cable or equal and approved.

**2.21 FLEXIBLE CORDS**

Shall be in accordance with the “Cable and Flexible Cords” clause. No cord shall be less than 24/0.2mm in size unless otherwise specified.

Circular white twin TRS flex shall be used for plain pendant fittings up to 100 watts. For all other types of lighting fittings, the flexible cable shall be silicone rubber insulated.

No polythene insulated flexible cable shall be used in any lighting fitting or other appliance (see “Heat Resisting Cables” Clause 30).

## 2.22 CABLE ENDS AND PHASE COLOURS

All cable ends connected up in switchgear, MCB panels etc, shall have the insulation carefully cut back and the ends sealed with Hellerman rubber slip on cable end markers.

The markers shall be of appropriate phase colour for switch and all other live feeds to the details of the “Cable Insulation Colours” clause. Black cable with black end markers shall only be used for neutral cables.

## 2.23 CABLE INSULATION COLOURS

Unless otherwise stated in later clauses the insulation colours shall be in accordance with the following table.

Where other systems are installed the cable colours shall be in accordance with the details stated in the appropriate clause.

<u>SYSTEM</u>	<u>INSULATION COLOUR</u>	<u>CABLE END MARKER</u>
1) Main and Sub-Main		
a) Phase	Red	Red
b) Neutral	Black	Black
2) Sub-Circuits Single Phase		
a) Phase	Red	Red
b) Neutral	Black	Black

## 2.24 SUB-CIRCUIT WIRING

For all lighting and sockets wiring shall be carried out in the “looping in” system and there shall be no joints whatsoever. No lighting circuits shall comprise more than 20 points when protected by 10A MCB. Cables with different cross-section area of copper shall not be used in combination.

Lighting circuits P.V.C. cable.

(i) 1.5mm<sup>2</sup> for all lighting circuits indicated on the drawing.

Power circuits P.V.C cable (minimum sizes).

(ii) 2.5mm<sup>2</sup> for one, two or three 5Amp sockets wired in parallel.

(iii) 2.5mm<sup>2</sup> for one 15Amp socket.

(iv) 2.5mm<sup>2</sup> for maximum of ten switched 13 Amp sockets wired from 30 Amp MCB.

The wiring sizes for lighting circuits and sockets are shown on the drawings. In such cases, the sizes shown on the drawings shall prevail over the sizes specified.

Wiring sizes for other appliances shall be shown on the drawing or specified in later clauses of this specification.

#### 2.25 **SPACE FACTOR**

The maximum number of cables that may be accommodated in a given size of conduit or trunking or duct is not to exceed the number in Tables B.5 and B.6 or as stated in Regulation B.91, B.117 and B.118 of the I.E.E Regulations whichever is appropriate.

#### 2.26 **INSULATION**

The insulation resistance to earth and between poles of the whole wiring system, fittings and lumps, shall not be less than the requirements of the latest edition of the I.E.E Regulations. Complete tests shall be made on all circuits by the Sub-contractor before the installations are handed over.

A report of all tests shall be furnished by the Sub-Contractor to the Engineer. The Engineer will then check test with his own instruments if necessary.

#### 2.27 **LIGHTING SWITCHES**

These shall be mounted flush with the walls, shall be contained in steel or alloy boxes with a screw less front plate and shall be of the gangs' ratings and type shown in the drawings. They shall be as manufactured by M.K. Electrical Ltd., or other equal and approved to KS 04 – 247: 1988.

#### 2.28 **SOCKETS AND SWITCHED SOCKETS**

These shall be flush pattern in steel/pvc box and shall be of the gangs and type specified in the drawings.

They shall be 13- Amp, 3-pin, shuttered, switched with a screwless front plate and as manufactured by "M.K. Electrical Co. Ltd.", or other approved equal to KS 04 – 246: 1987.

#### 2.29 **FUSED SPUR BOXES**

These shall be flush, D.P switched as in steel/pvc box and of type and make specified in the drawings complete with pilot light and as manufactured by "M. K. Electrical Company Ltd", or other approved equal. KS 04 – 247: 1988

#### 2.30 **COOKER OUTLETS**

These shall be flush mounted with 13-A switched socket outlet and neon indicator Lamps with a screw less front plate.

The cooker control units shall be as manufactured by "M.K. Electrical Company Ltd", or other approved equal KS 04 – 247: 1988

2.31 **CONNECTORS**

Shall be specified in the drawings and appropriate rating. These shall be fitted at all conduit box lighting point outlets for jointing of looped P.V.C cables with flexible cables of specified quality.

2.32 **LAMP HOLDERS**

Shall be of extra heavy H.O skirted and shall be provided for every specified lighting fitting and shall be B.C., E.S., or G.E.S as required. All E.S. and G.E.S. holders shall be heavy brass type (except for plain pendants where the reinforced bakelite type shall be used). The screwed cap of the E.S and G.E.S. holders shall be connected to the neutral.

Where lampholders are supported by flexible cable, the holders shall have “cord grip” arrangements and in the case of metal shades earthing screws shall be provided on each of the holders.

The Sub-Contractor must order the appropriate type of holder when ordering lighting fittings, to ensure that the correct types of holders are provided irrespective of the type normally supplied by the manufacturers.

2.33 **LAMPS**

All lamps shall be suitable for normal stated supply voltage and the number and sizes of lamps detailed on the drawings shall be supplied and fixed. The Sub-Contractor must verify the actual supply voltage with the supply authority before ordering the lamps.

Tungsten filament lamps shall be manufactured in accordance with KS 04 – 112:1978 for general service lamps and KS 04 – 307:1985 for lamps other than general services. Tubular fluorescent lamps shall comply with KS 04 – 464:1982

Pearl lamps shall be used in all fittings unless otherwise specified.

2.34 **LIGHTING FITTINGS AND STREET LIGHTING LANTERNS**

This Sub-Contract shall include for the provision, handling charges, taking the delivery, safe storage, wiring (including internal wiring) assembling and erecting of all lighting fittings shown on the drawings.

All fittings and pendants shall be fixed to the conduit boxes with brass R/H screws. These to be in line with metal finish of fittings. The lighting fittings are detailed for the purpose of establishing a high standard of finish and under no circumstances will substitute fittings be permitted.

In case of rectangular shaped ceiling fittings, the extreme ends of the fittings shall be secured to suitable support in addition to the central conduit box fittings. Supports shall be provided and fixed by the Sub-Contractor.

The whole of the metal work of each lighting fittings shall be effectively bonded to earth. In the case of ball and/or knuckle joints short lengths of flexible cable shall be provided, bonded to the metal work on either side of the joints. If the above provisions are not made by the manufacturers -, the Sub-contractor shall include cost of additional work necessary in his tender. See “Flexible Cords” clause for details of internal wiring of lighting fittings.

Minimum size of internal wiring shall be 20/0.20mm (23/0067). Each lighting fitting shall be provided with number type and size of lamps as detailed on the drawings. It is to be noted that some fittings are suspended as shown on the drawings.

Where two or more points are shown adjacent to each other on the drawings, e.g. socket outlet and telephone outlet, they shall be lined up vertically or horizontally on the centre lines of the units concerned.

Normally, the units shall be lined up on vertical centre lines, but where it is necessary to mount units at low level they shall be lined up horizontally.

### 2.35 **POSITIONS OF POINTS AND SWITCHES**

Although the approximate positions of all points are shown on the drawings, enquiry shall be made as to the exact positions of all M.C.B panels, lighting points, socket outlets etc, before work is actually commenced. The Sub-contractor must approach the Architect with regard to the final layout of all lights on the ceiling and walls.

The Sub-contractor must consult with the Engineer in liaison with the Clerk of Works, or the General Foreman on site regarding the positions of all points before fixing any conduit etc. The Sub-Contractor shall be responsible for all alterations made necessary by the non-compliance with the clause.

### 2.36 **STREET/SECURITY OUTDOOR LIGHTING COLUMNS:**

The column shall be at a minimum of 225mm in the ground on 75mm thick concrete foundations and the pole up to 150mm shall be surrounded with concrete. The top bracket and plain section of the columns shall be common to and interchangeable with all brackets with maximum mismatching tolerance of 3mm between any pole and bracket. After manufacture and before erection the columns shall be treated with an approved mordant solution which shall be washed off and the whole allowed to dry. Thereafter, the columns shall be painted with one undercoat and two coats of gloss paint to an approved colour. All columns shall be complete with fused cut-outs.

### 2.37 **TIMING CONTROL SWITCH**

These shall be installed where shown on the drawings. Photocell timing control circuits which will operate 'on' with a specified level of darkness and 'off' with a given level of light. The initial adjustment will be done with approval of the Electrical Engineer.

### 2.38 **WIRING SYSTEM FOR STREET LIGHTING**

Cables shall be as indicated on the drawings, and shall be laid in a cable trench 450mm deep along the road sides and 600mm deep across the roads and 900mm away from the road kerb or 1500mm away from the edges of the road. 'Loop-in' and 'Loop-out' arrangement shall be used at every pole. Wiring to the lanterns on each pole shall be with 1.5mm<sup>2</sup> PVC twin insulated and sheathed cable with earth wire shall be laid at least 600mm below the finished road level on a compact bed of murram at least 50mm thick and covered with a concrete surrounded 150mm thick.

### 2.39 **METAL CONTROL PILLAR**

These shall be metal clad and fabricated as per contract drawings and specification. The Sub-Contractor shall supply, install, test and commission control pillars including supplying, fixing connecting switchgears as detailed on the appropriate drawings.

## 2.40 **CURRENT OPERATED EARTH LEAKAGE CIRCUIT BREAKER**

Current operated earth leakage circuit breaker shall conform to B.S.S. 4293:68 rated at 240 volts D.P. 50 cycles A.C. Mains.

The breaker shall be provided with test switch and fitted in weather proof enclosure for surface mounting. The rated load current and earth fault operating current shall be as specified in the drawings. These shall be as manufactured by Crabtree, Siemens or other equal and approved.

## 2.41 **M.V. SWITCHBOARD AND SWITCHGEAR**

The switchboard shall be manufactured in accordance with KS04-226 which co-ordinates the requirements for electrical power switchgear and associated apparatus. It is not intended that this K.S. should cover the requirements for specified apparatus for which separate Kenyan Standard exist. All equipment and material used in the switchboard shall be in accordance with the appropriate Kenya Standard.

The switchboard shall comprise the equipment shown on the drawings together with all current transformers, auxiliary fuses, labels, small wiring and interconnections necessary for the satisfactory operation of the switchboard.

The Switchboard shall be of the flush fronted, enclosed, metal clad type with full front or rear access as called for in the particular specifications, suitable for indoor use, sectionalized as necessary to facilitate transport and erection. The maximum height of the switchboard is to be approximately 2.0 metres. A suitable connection chamber containing all field terminals shall be provided at the top or bottom of the switchboard as appropriate.

Before manufacture, the Sub-Contractor shall submit to the consulting Engineer for approval of detailed drawings showing the layout, construction and connection of the switchboard.

All bus-bars and bus-bar connections shall consist of high conductivity copper and be provided in accordance with KS 04-226: 1985. The bus-bars shall be clearly marked with the appropriate phase and neutral colours which should be red, yellow, blue for the phases and black for neutral. The bus-bars shall be so arranged in the switchboard that the extensions to the left and right may be made in the future with ease should the need arise.

Small wiring, which will be neatly arranged and cleated, shall be executed in accordance with B.S. 158 and the insulation of the wiring shall be coloured according to the phase or neutral connection.

Switches and fuse switches, shall be in strict accordance with KS04-183:1978 Class 2 switches. Means of locking the switch in the "OFF" position shall be provided.

All fuse switches shall comply with KS04-183:1978, PARTS 2 and 3 a fault rating at least equal to the fault rating of the switchboard in which they are installed. Cartridge fuse links to KS 04-183:1978 category A.C. 46, class Q1 and fusing factor not exceeding 1.5 shall be supplied with each fused switch.

Mounting arrangements shall be such that individual complete fuse switches may be disconnected and withdrawn when necessary without extensive dismantling work.

When switches are arranged in their formation all necessary horizontal and vertical barriers shall be provided to ensure segregation from adjacent units. Means of locking the switch in the "OFF" position shall be provided.

## 2.42 **STEEL CONDUITS AND STEEL TRUNKING**

Conduits shall be of heavy gauge class "B" welded to Standard specification KS 04-180:1985. In no case will conduit smaller than 20mm diameter be used on the works. Conduits installed within buildings shall be black enamelled finish except where specified otherwise. Where installed externally or in damp conditions they shall be galvanised. Conduit fittings, accessories or equipment used in conjunction with galvanised conduits shall also be galvanised or otherwise as approved by the service engineer.

Metal trunking shall be fabricated from mild steel of not less than 18 swg. All sections of trunking shall be rigidly fixed together and attached to the framework or fabric or the building at intervals of not less than 1.2m. Joint trunking shall not overhang fixing points by more than 0.5m.

All trunking shall be made electrically continuous by means of 25 x 3mm copper links across each joint and where the trunking is galvanised, the links shall be made by galvanised flat iron strips.

All trunking fittings (i.e. Bends, tees, etc) shall leave the main through completely clear of obstructions and continuously open except through walls and floors at which points suitable fire resisting barriers shall be provided as may be necessary. The inner edge of bends and tees shall be chamfered where cables larger than 35mm<sup>2</sup> are employed.

Where trunking passes through ceilings and walls the cover shall be solidly fixed to 150mm either side of ceilings and floors and 50mm either side of walls.

Screws and bolts securing covers to trunking or sections of covers together shall be arranged so that damage to cables cannot occur either when fixing covers or when installing cables in the trough.

Where trunking is used to connect switchgear or fuseboards, such connections shall be made by trunking fittings manufactured for this purpose and not by multiple conduit couplings.

Where vertical sections of trunking are used which exceed 4.5m in length, staggered tie off points shall be provided at 4.5m intervals to support the weight of cables.

Unless otherwise stated, all trunking systems shall be painted as for conduit.

Where a wiring system incorporates galvanised conduit and trunking, the trunking shall be deemed to be galvanised unless specified otherwise.

The number of cables to be installed in trunking shall be such as to permit easy drawing in without damage to the cables, and shall in no circumstances be such that a space factor of 45% is exceeded.

Conduit and trunking shall be mechanically and electrically continuous. Conduit shall be tightly screwed between the various lengths so that they butt at the socketed joints. The internal edges of conduit and all fittings shall be smooth, free from burrs and other defects.



Oil and any other insulating substance shall be removed from the screw threads; where conduits terminate in fuse-gear, distribution boards, adaptable boxes, non-spouted switchboxes, etc., they shall, unless otherwise stated, be connected thereto by means of smooth bore male brass bushes, compression washers and sockets. All exposed threads and abrasions shall be painted using an oil paint for black enameled tubing and galvanizing paint for galvanised tubing immediately after the conduits are erected. All bends and sets shall be made cold without altering the section of the conduit.

The inner radius of the bend shall not be less than four (4) times the outside diameter of the conduit. Not more than two right angle bends will be permitted without the inter-position of a draw-in-box. Where straight runs of conduit are installed, draw-in-boxes shall be provided at distances not exceeding 15m. No tees, elbows, sleeves, either of inspection or solid type, will be permitted.

Conduit shall be swabbed out prior to drawing in cables, and they shall be laid so as to drain of all condensed moisture without injury to end connections.

Conduits and trunking shall be run at least 150mm clear of hot water and steam pipes, and at least 75mm clear of cold water and other services unless otherwise approved by the services engineer.

All boxes shall conform to BS 6841: 1986, to be of malleable iron, and black enamelled or galvanized according to the type of conduit specified. All accessory boxes shall have threaded brass inserts.

Box lids where required shall be heavy gauge metal, secured by means of zinc plated or cadmium plated steel screws.

All adaptable boxes and lids of the same size shall be interchangeable.

Boxes used on surface work are to be tapped or drilled to line up with the conduit fixed in distance type saddles allowing clearance between the conduit and wall without the need for setting the conduit.

Where used in conjunction with mineral insulated copper sheathed cable, galvanized boxes shall be used and painted after erection.

Draw-in boxes in the floors are generally to be avoided but where they are essential they must be grouped in positions approved by the services engineer and covered and by the suitable floor traps, with non-ferrous trays and covers.

The floor trap covers are to be recessed and filled in with a material to match the floor surface.

The Sub-contractor must take full responsibility for the filling in of all covers, but the filling in material will be supplied and the filling carried out by the main building contractor.

Where buried in the ground outside the building the whole of the buried conduit is to be painted with two coats of approved bitumastic composition before covering up.

Where run on the surface, unpainted fittings and joints shall be painted with two coats of oil bound enamel applied to rust and grease free metalwork.

**TESTING ON SITE**

The Sub-contractor shall conduct during and at the completion of the installation and, if required, again at the expiration of the maintenance period, tests in accordance with the relevant section of the current edition of the Regulations for the electrical equipment of buildings issued by the I.E.E of Great Britain, the Government Electrical Specification and the Electric Supply Company's By-Laws.

- (a) Tests shall be carried out to prove that all single pole switches are installed in the 'live' conductor.
- (c) Tests shall be carried out to prove that all socket outlets and switched socket outlets are connected to the 'live' conductor in the terminal marked as such, and that each earth pin is effectively bonded to the earth continuity system. Tests shall be carried out to verify the continuity of all conductors of each 'ring' circuit.
- (d) Phase tests shall be carried out on completion of the installation to ensure that correct phase sequence is maintained throughout the installation. Triplicate copies of the results of the above tests shall be provided within 14 days of the witnessed tests and the Sub- contractor will be required to issue to the service engineer the requisite certificate upon completion as required by the regulations referred to above.
- (e) Any faults, defects or omissions or faulty workmanship, incorrectly positioned or installed parts of the installation made apparently by such inspections or tests shall be rectified by the Sub-contractor at his own expense.
- (f) The Sub-contractor shall provide accurate instruments and apparatus and all labour required to carry out the above tests. The instruments and apparatus shall be made available to the services engineer to enable him to carry out such tests as he may require.
- (g) The Sub-contractor shall generally attend on other contractors employed on the project and carry out such electrical tests as may be necessary.
- (h) The Sub-contractor shall test to the services engineer's approval and as specified elsewhere in this specification or in standards and regulations already referred to, all equipment, plant and apparatus forming part of the works and before connecting to any power or other supply and setting to work.
- (i) Where such equipment, etc., forms part of or is connected to a system whether primarily or of an electrical nature or otherwise (e.g. air conditioning system) the Sub-contractor shall attend on and assist in balancing, regulating testing and commissioning, or if primarily an electrical or other system forming part of works, shall balance, regulate, test and commission the system to the service engineer's approval.

## **APPENDIX TO GENERAL SPECIFICATIONS OF MATERIALS AND WORKS**

The electrical sub-contractor shall comply with the following: -

1. Government Electrical Specifications No. 1 and No. 2.
2. All requirements of Kenya Power Limited, and Communications Authority of Kenya (CAK).

SECTION C

SCHEDULE OF CONTRACT DRAWINGS

## SCHEDULE OF CONTRACT DRAWINGS

DRAWING NO.	DRAWING TITLE
As shall be issued by the Engineer	

**NOTE:**

Tenderers are advised to inspect the electrical drawings at the office of the Regional Works Officer (Nyanza) – Ministry of Transport, Infrastructure, Housing & Urban Development, State Department for Public Works along Old Airport road, during normal working hours.

The drawings shall however be availed, on award of the tender, to the sub-contractor.

SECTION D  
PARTICULAR SPECIFICATIONS  
OF  
MATERIALS AND WORKS

## **PARTICULAR SPECIFICATIONS**

### **1.00 SITE LOCATION**

The site of the proposed works is at Bungoma TVC, Bungoma County.

### **2.00 SCOPE OF WORKS**

The works to be carried out under this sub-contract comprise supply, installation, testing and commissioning of the following: -

- a) Electrical Works  
This shall include conduiting, cabling, fittings and accessories.
- b) Structured cabling installation  
This shall include conduiting, cabling, servers and data wi-fi points installation.
- c) CCTV installation  
This shall include CCTV cameras, cabling and NVR installation.

### **3.00 MATERIALS FOR THE WORKS**

Materials shall be as specified in Section D and in the Bills of Quantities of this document which shall be read in conjunction with contract drawings. Alternative materials shall be accepted only after approval by the Project Manager.

### **4.00 BROCHURES FOR FIRE ALARM PANEL & ANY ELECTRICAL EQUIPMENT AND FITTINGS**

For consideration and qualification tenderers shall, at their own cost, provide coloured manufacturer's brochures detailing technical literature and specifications where applicable.

### **5.00 MINIMUM SPECIFICATIONS FOR FIRE ALARM**

Fire alarm shall be the addressable type and capable of integration with other brands of other manufacturers.

LED TUBES, PANELS & BULBS LIGHT FITTING TECHNICAL SPECIFICATIONS IEC Compliant		
Item	Minimum Specifications	Proposed solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Operating	<ul style="list-style-type: none"> <li>➤ voltage range: 130-300 V ac</li> <li>➤ frequency range: 50-60Hz</li> <li>➤ Power factor <math>\geq 0.9</math> lagging</li> <li>➤ Total Harmonic Distortion (THD)<math>&lt;15\%</math></li> <li>➤ Ambient temperature range -10 to +35 °Operating</li> <li>➤ Colour Consistency <math>\leq 5\text{SDCM}</math></li> </ul>	
Performance	<ul style="list-style-type: none"> <li>➤ System efficacy <math>&gt; 90\text{lm/W}</math></li> <li>➤ Lamp colour temperature: Offices/Task areas: 4000K - 6500K Residential areas: 3000K – 4000K</li> <li>➤ Colour Rendering Index <math>\geq 80</math></li> <li>➤ Median useful life <math>\geq 30000</math> hr</li> </ul>	
Standards Compliance	CB/EMC/CE	
General	<ul style="list-style-type: none"> <li>➤ Driver/power unit/transformer - PSU-E</li> <li>➤ Backlit type</li> <li>➤ Protection class IEC - Safety class II (II)</li> </ul>	



ITEM	LIGHTING FITTING	DESCRIPTION
		<i>(Lighting Fittings to be complete with all gears and accessories)</i>
1	<b>Type 1</b>	1200mm Single SmartBright LED Batten fitting complete with 18 watts Essential LED tube as PHILIPS BN012C or approved equivalent
2	<b>Type 2</b>	1200mm Twin SmartBright LED Batten fitting complete with 36 watts Essential twin LED tube as PHILIPS BN012C or approved equivalent
2	<b>Type 3</b>	1200mm Twin SmartBright LED Batten fitting complete with 36 watts Essential twin LED tube complete with diffuser as PHILIPS BN012C or approved equivalent
2	<b>Type 4</b>	LED circular ceiling light 120mm surface mounted 15W, IP 44 with warm white output and Long lamp life above 50,000 hours as Tronic or equal and approved equivalent
4	<b>Type 5</b>	22W Circular Ceiling mounted waterproof IP54 rated Luminaire, 2100lm, 300mm dia, 50000 Hrs lifetime as PHILIPS Smartbright LED Oyster or approved equivalent
5	<b>Type 6</b>	20W Circular Surface mounted Ceiling Downlight Light as PHILLIPS Cat. No. DN140B LED20S CORELINE or approved equivalent
6	<b>Type 7</b>	Maintained Emergency LED EXIT sign as PHILIPS or approved equivalent
6	<b>Type 8</b>	50W, rectangular LED floodlight IP 65, 5250lm 4000K, 30000Hrs lifetime complete with photocell as Philips Ledinaire or equal and approved equivalent

**Bidders must provide Technical Brochures to assess their technical compliance with these specifications**

## 8.0 STRUCTURED CABLING

### 1.1. NETWORK CABINETS

<b>DATA CABINET AND ACCESSORIES</b>		
<b>Item</b>	<b>Minimum Specifications</b>	<b>Proposed Solution</b>
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product description	Rack -ventilated -(42U, 22U, 18U,15U, 9U as per the BQ)	
Rack sized	9",42"	
Dimensions	Minimum 600mm x 600mm to fit the active components	
Construction	<ul style="list-style-type: none"> <li>• The front Clear Glass door, back door mesh door.</li> <li>• Front/rear locking double section door, enable ventilation and reliable operation.</li> <li>• Wire path on the top and bottom can be closed.</li> <li>• High grade knob and lock.</li> <li>• Wire groove with Wide cable manager on the two sides.</li> <li>• Material: SPCC quality cold rolled powder coated steel</li> <li>• Surface finish: degrease, acid pickling, rust prevention and parkerizing, pure water cleaning, static electricity plastic painting</li> </ul>	
Power	<ul style="list-style-type: none"> <li>• Pre-wired 240V AC conditioned grounded power circuit</li> <li>• 6 Outlet Power Distribution Unit Included</li> <li>• Supplied with Earth Bond Kit and Cage nuts</li> </ul>	
Standards	Comply with ANSI/EIA RS-310-D, IEC297-2, DIN41494; PART1, DIN41494; PART7, GB/T3047; 2-92STANDARD	

#### i) HORIZONTAL CABLING

	Category 6A UTP 4-Pair Cable	
<b>Item</b>	<b>Minimum specifications</b>	
Brand	State the brand, model (Mandatory)	
Construction	<ul style="list-style-type: none"> <li>• UTP</li> <li>• Nominal jacket OD: 8.5mm (0.33 in.)</li> <li>• 0.58mm (0.02 in.) solid (non-tinned) copper</li> <li>• Centre Isolation Member</li> </ul>	
Jacket	Sequential meter markings	

Industry Compliance	<ul style="list-style-type: none"> <li>• ISO/IEC 11801 Ed. 2.2 (Class EA)</li> <li>• ISO/IEC 61156-5 (Category 6A)</li> <li>• LSOH: ISO/IEC 60332, IEC 60754, IEC 61034</li> <li>• EN50399 Class Eca</li> </ul>	
Physical Properties	<p><b>Pulling Tension (max):</b> 110N (25 lbf)</p> <p><b>Bend Radius (min):</b> 45.7mm (1.8 in.)</p> <p><b>Operating Temperature:</b> -20 to 60°C (-4 to 140°F)</p>	

**ii) CAT 6A UTP PATCH PANELS**

<b>Item</b>	<b>Minimum specifications</b>	<b>Proposed Solution</b>
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Ports	24/12 Ports	
Characteristics	<p>Operating Temperature: -10 to 60 °C, (14 to 140 °F)</p> <p>Flammability Rating: UL 94 V-0</p> <p>Plastic Materials Flame retardant themoplastic</p> <p>Dimensions (LxWxH): 109.2 mmx 482.6mm x 44.2mm</p> <p>Mounting: CEA-310-E 19-inch (482.6mm) rack</p> <p>Material – Panel: 18 gauge cold rolled steel, black e-coat</p>	
Industry Compliance	<p><b>STANDARDS COMPLIANCE</b></p> <ul style="list-style-type: none"> <li>• ANSI/TIA-568-C.2</li> <li>• ISO/IEC 11801 Ed 2.2</li> <li>• ETL Tested; IEC 60603-7; IEC 60603-7-51; IEEE 802.3an</li> <li>• IEEE 802.3af (PoE); IEEE 802.3at (PoE+)</li> <li>• ANSI/TIA-1096-A</li> </ul>	
Warranty	<p>End-to-End Manufacturer's Warranty on Cabling System (<i>Attach Manufacturer's Warranty Statement</i>)</p> <p>Minimum 5 Years</p>	

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model (Mandatory)	
Construction	Steel Tape armoured with Glass Yarn	
Armour	Corrugated Steel Tape Armour	
Cable characteristics	<ul style="list-style-type: none"> <li>- Support for 10GBASE-T</li> <li>-Low Density Polyethylene Sheath</li> <li>-Gel Filled Loose Buffer Tube</li> <li>-Level 1 Rodent Protection</li> <li>- Crash(N) at least 2500</li> <li>-Torsion (Turns/M) not more than 5</li> <li>- Multimode</li> </ul>	
Fibre Specificatons	-8-Core indoor Premium fiber meeting IEEE 802.3 10 Gigabit ethernet standard as well as IEC-60793-2-10 and TIA-492AAAC specifications for laser bandwidth Differential Mode Delay(DMD) specifications	
	<ul style="list-style-type: none"> <li>- 900 µm tight buffer</li> <li>- 250µm coated optical fibre</li> <li>- Length markings in 2 ft. increments</li> <li>- Available in OFNR, OFNP and LSOH constructions</li> <li>- jacket Material is Lead Free</li> <li>- RoHS compliant</li> </ul>	
Industry Compliance	- ISO/IEC 11801:2002 OM3	
	-ANSI/TIA/EIA-568-B.3; ANSI/TIA/EIA-568-B.3-1	
	<ul style="list-style-type: none"> <li>- ANSI/TIA-598-C; Telcordia GR-409-CORE</li> <li>- LSOH: IEC 60332-1, IEC 61034, IEC 60754</li> <li>- OFNR: Communications Type OFNR(UL) and FT4 c(UL)</li> <li>- TIA-492AAAC laser bandwidth DMD specification</li> </ul>	
	- IEC 60793-2-49 and TIA/EIA 455-220 DMD measurement test procedure	

Item	Minimum Specifications	Proposed solution
Brand	State the brand, model and attach Technical Brochure (Mandatory) – The Switch should currently be supported by the Manufacturer and not less than 5 years to end of life.	
Features	<ul style="list-style-type: none"> <li>• Full Power over Ethernet Plus (PoE+) capability</li> <li>• Downlinks total 10/100/1000 or PoE+ copper ports: 24, 48 ports data</li> <li>• Uplink configuration: Modular uplink options (2 No. 1G Gigabit Ethernet Combo)</li> <li>• Default primary AC power supply: 240VAC</li> <li>• Fans: FRU redundant</li> <li>• Operational efficiency with optional backplane stacking, supporting stacking bandwidth up to 52 Gbps</li> <li>• UADP 2.0 Mini with integrated CPU</li> <li>• AES-128 MACsec encryption</li> <li>• Layer 3 capabilities, including OSPF, EIGRP, ISIS, RIP, and routed access</li> <li>• Advanced network monitoring using Full Flexible NetFlow</li> <li>• Plug and Play (PnP) enabled</li> </ul>	
Specs	<ul style="list-style-type: none"> <li>• Default AC power supply AC 240V</li> <li>• Switching capacity: &gt; 52 Gbps</li> </ul>	
RAM& accessories	<ul style="list-style-type: none"> <li>• Flash-&gt;= 256 MB</li> </ul>	
Support	Locally Available Technical Support Services( <i>Manufacturer's Letter of Authorization Mandatory</i> )	
Warranty	Manufacturer's Limited Lifetime Warranty	

### CORE SWITCH (12 port)

Item	Minimum Specifications	Proposed solution
Brand	State the brand, model and attach Technical Brochure (Mandatory) – The Switch should currently be supported by the Manufacturer and not less than 5 years to end of life.	
Features	<ul style="list-style-type: none"> <li>• Full Power over Ethernet Plus (PoE+) capability</li> <li>• Downlinks total 10/100/1000 or PoE+ copper ports: 12 ports data</li> <li>• Uplink configuration: Modular uplink options (4 No. 10G Network Module)</li> <li>• Default primary AC power supply: 240VAC</li> <li>• Fans: FRU redundant</li> <li>• Operational efficiency with optional backplane stacking, supporting stacking bandwidth up to 52 Gbps</li> <li>• UADP 2.0 Mini with integrated CPU</li> <li>• AES-128 MACsec encryption</li> </ul>	

	<ul style="list-style-type: none"> <li>• Layer 3 capabilities, including OSPF, EIGRP, ISIS, RIP, and routed access</li> <li>• Advanced network monitoring using Full Flexible NetFlow</li> <li>• Plug and Play (PnP) enabled</li> </ul>	
Specs	<ul style="list-style-type: none"> <li>• Default AC power supply AC 240V</li> <li>• Switching capacity: &gt; 208 Gbps</li> <li>• Forwarding rate: &gt;154.76 Mpps</li> </ul>	
RAM& accessories	<ul style="list-style-type: none"> <li>• Flash-&gt;= 256 MB</li> </ul>	
Support	Locally Available Technical Support Services( <i>Manufacturer's Letter of Authorization Mandatory</i> )	
Warranty	Manufacturer's Limited Lifetime Warranty	
<b>Mounting</b>	<ul style="list-style-type: none"> <li>• Multiple mounting options Mounting bracket included for easy ceiling or wall mounting</li> <li>• Physical security lock Kensington lock slot</li> </ul>	
<b>Management</b>	<ul style="list-style-type: none"> <li>• Management protocols Web browser, Simple Network Management Protocol (SNMP) v3, Bonjour</li> <li>• Remote management: Yes</li> <li>• Event logging Local, remote syslog, email alerts</li> <li>• Network diagnostics Logging and packet capture</li> <li>• Web firmware upgrade: Firmware upgradable through web browser, imported/exported configuration file</li> <li>• Dynamic Host Configuration Protocol (DHCP) client : Yes</li> <li>• IPv6 host: Yes</li> <li>• HTTP redirect:Yes</li> </ul>	
Support	Locally Available Technical Support Services ( <i>Manufacturer's Letter of Authorization Mandatory</i> )	
Warranty	Manufacturer's Limited Lifetime Warranty	

#### WIRELESS ACCESS POINT

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Features	<ul style="list-style-type: none"> <li>• Ports: LAN Gigabit Ethernet auto sensing</li> <li>• Cabling type: Category 5e or better</li> <li>• Antennas: Internal antennas optimized for installation on a wall or ceiling</li> <li>• LED indicators: Power, WLAN, LAN</li> <li>• Operating system: Linux</li> <li>• Wave 2 Technology</li> </ul> <p><b>Physical Interfaces</b></p> <ul style="list-style-type: none"> <li>• 2 x Gigabit (10/100/1000BASE-T autosensing), Power over Ethernet (PoE)</li> </ul>	

	<ul style="list-style-type: none"> <li>● RJ-45 console port (not functional)</li> <li>● USB 2.0 (not functional)</li> </ul> <p><b>Physical Specifications</b></p> <ul style="list-style-type: none"> <li>• Access point (without mounting brackets): 7 x 7 x 1.5 in</li> <li>• Weight WAP561: 1.51 lb or 685 g; WAP551: 1.41 lb or 640g</li> <li>• Weight WAP 240 AC 0.43Kg</li> </ul> <p><b>Network Capabilities</b></p> <ul style="list-style-type: none"> <li>• VLAN support: Yes</li> <li>• Number of VLANs: 1 management VLAN plus 16 VLANs for SSIDs</li> <li>• 802.1X supplicant: Yes</li> <li>• SSID-to-VLAN mapping: Yes</li> <li>• Auto channel selection: Yes</li> <li>• Spanning tree: Yes</li> <li>• Load balancing: Yes</li> <li>• IPv6: Yes <ul style="list-style-type: none"> <li>IPv6 host support</li> <li>IPv6 RADIUS, syslog, Network Time Protocol (NTP), etc.</li> </ul> </li> <li>• Layer 2 802.1Q-based VLANS, 16 active VLANS plus 1 management VLAN</li> </ul> <p><b>Quality of Service</b></p> <ul style="list-style-type: none"> <li>• Quality of service (QoS) Wi-Fi Multimedia and Traffic Specification (WMM TSPEC)</li> </ul>	
<p><b>Performance</b></p>	<ul style="list-style-type: none"> <li>• Wireless throughput Up to 450 Mbps data rate (real-world throughput will vary)</li> <li>• Recommended user support Up to 64 connective users, 30 active users per radio</li> </ul> <p><b>Multiple-Access Point Management</b></p> <ul style="list-style-type: none"> <li>• Single Point Setup: Yes</li> <li>• Number of access points per cluster: 16</li> <li>• Active clients per cluster: 480</li> </ul>	
<p><b>Wireless</b></p>	<ul style="list-style-type: none"> <li>• Frequency: WAP551: Selectable radio band (2.4 or 5 GHz) WAP240 AC: Dual concurrent radios (2.4 and 5 GHz)</li> <li>• Radio and modulation type: Single radio (WAP551) or dual radio (WAP561), orthogonal frequency division multiplexing (OFDM)</li> <li>• WLAN 802.11ac <ul style="list-style-type: none"> <li>● 4x4 Downlink (DL) MU-MIMO with four spatial streams, up to 1733 Mbps</li> <li>● 802.11ac beamforming</li> <li>● 20, 40, 80 MHz channels</li> <li>● Dynamic Frequency Selection (DFS)Data rates</li> </ul> </li> </ul>	
<p><b>Standards</b></p>	<p><u>Standards Compliance</u></p> <p>IEEE 802.11n, 802.11g, 802.11b, 802.3af, 802.3u, 802.1X (security authentication), 802.1Q (VLAN), 802.1D (Spanning Tree), 802.11i (WPA2 security), 802.11e (wireless QoS), IPv4 (RFC 791), IPv6 (RFC 2460)</p>	

<b>Security</b>	<ul style="list-style-type: none"> <li>● Wi-Fi Protected Access 2 (WPA2 ); WPA3 in a future release</li> <li>● 802.1X, Remote Authentication Dial-In User Service (RADIUS); Authentication, Authorization, and Accounting (AAA)</li> <li>● Segmentation via VLANs (up to 16)</li> <li>● 802.11r and 802.11i</li> <li>● Guest network can also authenticate against: Google and Facebook</li> </ul>	
<b>Mounting</b>	<ul style="list-style-type: none"> <li>• Multiple mounting options Mounting bracket included for easy ceiling or wall mounting</li> <li>• Physical security lock Kensington lock slot</li> </ul>	
<b>Support</b>	Locally Available Technical Support Services ( <i>Manufacturer's Letter of Authorization Mandatory</i> )	
<b>Warranty</b>	Manufacturer's Limited Lifetime Warranty	

### RACK MOUNT UPS

<b>Item</b>	<b>Minimum Specifications</b>	<b>Proposed solution</b>
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Features	<p><b>Output</b></p> <ul style="list-style-type: none"> <li>➤ Nominal Output Voltage: 240V</li> <li>➤ Output Voltage Distortion: Less than 5%</li> <li>➤ Output Frequency (sync to mains): 50 Hz</li> <li>➤ Line Interactive</li> <li>➤ Waveform Type: Sine wave</li> <li>➤ Output Connections: (1) IEC 320 C19 (Battery Backup) , (2) IEC Jumpers (Battery Backup) , (8) IEC</li> </ul> <p><b>Input</b></p> <ul style="list-style-type: none"> <li>➤ Nominal Input Voltage: 240V</li> <li>➤ Input Frequency: 50/60 Hz +/- 3 Hz (auto sensing)</li> <li>➤ Input Connections: IEC-320 C20</li> <li>➤ Input voltage range for main operations 180 - 287 V</li> </ul> <p><b>Batteries &amp; Runtime</b></p> <ul style="list-style-type: none"> <li>➤ Battery Type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof</li> <li>➤ Typical recharge time: 3 hour(s)</li> <li>➤ Replacement Battery: YES</li> <li>➤ RBC Quantity: 1</li> </ul> <p><b>Surge Protection and Filtering</b></p> <ul style="list-style-type: none"> <li>➤ Surge energy rating: 300 Joules</li> <li>➤ Filtering: Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping</li> <li>➤ response time : meets UL 1449</li> </ul>	



Management	<ul style="list-style-type: none"> <li>➤ Interface Port(s): USB</li> <li>➤ Control panel: Multi-function LCD status and control console</li> <li>➤ Audible Alarm: Alarm when on battery : distinctive low battery alarm : configurable delays</li> </ul>	
Environmental	<ul style="list-style-type: none"> <li>➤ Operating Environment: 0 - 40 °C</li> <li>➤ Operating Relative Humidity: 0 - 95 %</li> <li>➤ Operating Elevation: 0-3000 meters</li> <li>➤ Storage Temperature: -15 - 45 °C</li> <li>➤ Storage Relative Humidity: 0 - 95 %</li> <li>➤ Storage Elevation: 0-15000 meters</li> <li>➤ Audible noise at 1 meter from surface of unit: 42.0 dB</li> <li>➤ Online Thermal Dissipation: 81.000 BTU/hr</li> </ul>	
Standards Compliance	C-tick , CE , EAC , GOST , GS Mark , IRAM , SABS , VDE, RoHS	
Support	Locally Available Technical Support Services( <i>Manufacturer's Letter of Authorization Mandatory</i> )	
Warranty	Manufacturer's Limited Lifetime Warranty Minimum 2 years- repair or replace	

## 9.0 CCTV INSTALLATION

### Indoor IP Dome camera (CCTV CAMERA TYPE 1)

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product type	IP Camera	
	<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• IP 4MP Vandal Proof Dome camera</li> <li>• 1/1.8" CMOS imaging sensor with 120db WDR.</li> <li>• Fixed Lens length of 3.7 mm</li> <li>• IR Viewable Length 30m</li> <li>• Minimum illumination 0.2lux (colour)</li> <li>• Frame rate of 30fps at 5MP</li> <li>• True day and night vision capability (ICR)</li> <li>• IP network capable – IPv4/IPv6</li> <li>• PoE capability</li> <li>• H.265 video compression</li> <li>• Tampering detection, Loitering, Face Detection, Audio Detection, Motion detection, Sound Classification, Heat map, People Counting, Queue management, defocus detection, Bi-directional audio I/O communication, Network Disconnect, defog and event triggered alarm processing</li> <li>• Masking</li> <li>• Vandal proof IK-10 rating housing</li> <li>• Weather proof IP66 rating</li> <li>• ONVIF protocol Compliant</li> </ul>	
Memory	<ul style="list-style-type: none"> <li>• Accessible Edge Storage with internal 128GB MicroSD card slot and complete with a 128GB MicroSD card</li> </ul>	
Warranty	Comprehensive Manufacturer's Warranty ( <i>Attach Manufacturer's Warranty Statement</i> ) Minimum 3 Years	

a) **Outdoor IP Dome camera (CCTV CAMERA TYPE 2)**

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product type	IP Camera	
	<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• IP 5MP Vandal Proof Dome camera</li> <li>• 1/1.8" CMOS imaging sensor with 120db WDR.</li> <li>• Fixed Lens length of 3.7 mm</li> <li>• IR Viewable Length 30m</li> <li>• Minimum illumination 0.2lux (colour)</li> <li>• Frame rate of 30fps at 5MP</li> <li>• True day and night vision capability (ICR)</li> <li>• IP network capable – IPv4/IPv6</li> <li>• PoE capability</li> <li>• H.265 video compression</li> <li>• Tampering detection, Loitering, Face Detection, Audio Detection, Motion detection, Sound Classification, Heat map, People Counting, Queue management, defocus detection, Bi-directional audio I/O communication, Network Disconnect, defog and event triggered alarm processing</li> <li>• Masking</li> <li>• Vandal proof IK-10 rating housing</li> <li>• Weather proof IP66 rating</li> <li>• ONVIF protocol Compliant</li> </ul>	
Memory	<ul style="list-style-type: none"> <li>• Accessible Edge Storage with internal 128GB MicroSD card slot and complete with a 128GB MicroSD card</li> </ul>	
Warranty	Comprehensive Manufacturer's Warranty ( <i>Attach Manufacturer's Warranty Statement</i> ) Minimum 3 Years	

**MOUNTING BRACKETS**

The Brackets shall:  
 Be suitable for wall or ceiling mounting of a single camera. Be at least 5.5"length  
 Have an auto lock facility.

**CAMERA HOUSING**

The camera housing shall:  
 Be IP66 rated with integral cable management.  
 Be Weatherproof and constructed from aluminium with epoxy coating

**COLOR VIDEO MONITORS**

<b>Item</b>	<b>Minimum Specifications</b>	<b>Proposed Solution</b>
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product type	Display Screen	
	<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• Provide high levels of picture quality 10MHz bars visible at low brightness.</li> <li>• Reliably stable synchronization</li> <li>• Low sensitivity and high stability</li> <li>• LED; 50,000hours panel life</li> <li>• 40" screen size</li> <li>• Resolution: 1,920 x 1,080</li> <li>• Interface:VGA, DVI, HDMI, RGB, Audio, Video</li> </ul>	
Power	<ul style="list-style-type: none"> <li>• Not more than 80w consumption</li> </ul>	
Warranty	Comprehensive Manufacturer's Warranty ( <i>Attach Manufacturer's Warranty Statement</i> ) Minimum 3 Years	

**CABLING**

<b>Item</b>	<b>Minimum Specifications</b>	<b>Proposed Solution</b>
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product type	Cables	
	<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• Solid copper, 24 AWG, 100 Ω balanced twisted-pair (UTP).</li> <li>• Category 6A cables with four individually twisted</li> <li>• performance specifications in ANSI/TIA/EIA-568-B.2 up to 100 MHz</li> </ul>	
Installation	<ul style="list-style-type: none"> <li>• Cables shall be kept at a minimum distance of 150mm from items liable to become hot or cold.</li> <li>• Bending radii shall be not less than eight times the overall cable diameter.</li> <li>• cables must pass through conduits or trunking</li> <li>• Cables shall have no joints and be labelled</li> </ul>	
Warranty	Comprehensive Manufacturer's Warranty ( <i>Attach Manufacturer's Warranty Statement</i> ) Minimum 3 Years	

**NETWORK VIDEO RECORDER**

**The network video recorder shall have the following minimum requirements:**

<b>Item</b>	<b>Minimum Specifications</b>	<b>Proposed Solution</b>
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product type	Network Video Recorder	
	<p><b>Product Features</b></p> <ul style="list-style-type: none"><li>• 32 Channels</li><li>• Throughput of at least 200Mbps</li><li>• Gigabit Ethernet connection</li><li>• Multi-screen Display: Full/4/9/16 way or as appropriate.</li><li>• 10 Hot swap HDDs each of 4TB minimum capacity</li><li>• external storage support capability</li><li>• VGA/HDMI local monitor</li><li>• Redundant hot swap power supply</li><li>• Network management/viewer software</li><li>• In built intelligent video analysis</li><li>• H.265, MPEG, MJPEG Compression</li><li>• ONVIF compatibility</li><li>• Web viewer supported</li><li>• PoE enabled</li><li>• Smart Video Search Feature for streamlined Investigations</li><li>• Recording resolution of 5MP</li><li>• IP address filtering, user access log, authentication and encryption</li><li>• Auto Launch of Video on specified Alarms/Events</li><li>• LED status indicator</li><li>• CE, UL certification</li></ul>	
Warranty	Comprehensive Manufacturer's Warranty ( <i>Attach Manufacturer's Warranty Statement</i> ) Minimum 3 Years	

SECTION E

SCHEDULE OF UNIT RATES

1. The tenderer shall insert unit rates against the items in the following schedules and may add such other items as he considers appropriate.
2. The unit rates shall include for supply, transport, insurance, delivery to site, storage as necessary, assembling, cleaning, installing, connecting, profit and maintenance in defects liability and any other obligation under this contract.
3. The unit rates will be used to assess the value of additions or omissions arising from authorised variations to the contract works.
4. Where trade names or manufacturer's catalogue numbers are mentioned in the specification, the reference is intended as a guide to the type of article or quality of material required. Alternative brands of equal and approved quality will be accepted.
5. The prices quoted shall be deemed to include for all obligations under the sub-contract including but not limited to supply of materials, labour, delivery to site, storage on site, installation, testing, commissioning and all other taxes applicable at the time of tender.

(To be completed by the Tenderer)

NO	DESCRIPTION	QTY	UNIT	UNIT RATE	
				(KSHS)	(CTS)
1	PVC/SWA/PVC Copper cable:				
	a) 16.0 mm sq 4core	1	M		
	b) 25.0 mm sq 4core	1	M		
2	PVC single core Copper cable:				
	a) 6mm <sup>2</sup>	1	M		
	b) 25mm <sup>2</sup>	1	M		
3	Emergency shutdown switch				
		1	NO		
4	LED Flood lights:				
	a) 30 Watts	1	NO		
	b) 100 Watts	1	NO		
5	MCCB:				
	a) 125A	1	NO		
	b) 32A	1	NO		
6	MCB				
	a) 40A	1	NO		
	b) 100A	1	NO		
7	Distribution Boards/Consumer unit as Merlin Gerin or an approved equivalent:				
	a) 12 Way TPN Distribution Board	1	NO		
8	b) 8 Way TPN Distribution Board	1	NO		
	c) 4 Way TPN Distribution Board	1	NO		
	d) 9 way Consumer unit	1	NO		
	e) 4 way consumer unit	1	NO		
	f) 6 way consumer unit	1	NO		
9	Trunking				
	a) 200mm by 50mm Steel	1	M		
	b) 150mm by 50mm PVC	1	M		



**SCHEDULE OF UNIT RATES**  
**FOR STRUCTURED CABLING**

ITEM	DESCRIPTION	QTY/UNIT	RATE(KSHS)
1.	Rack Mount Network Switches  a) 48 port Cisco switch, PoE and approved by engineer  c) Ditto but 12 port	1No.  1No.	
2.	Data Cabinets  a) 12U  b) 22U	1No.  1No.	
3.	Fibre Optic Cable  a) Single Mode Armoured	1M	
4.	4 core Single mode fiber cable	1M	
5.	48 port patch panel as described in particular specification.	1No.	
6.	2KVA UPS	1No.	
7.	2.2KVA UPS	1No.	
8.			

**SCHEDULE OF UNIT RATES**  
**CCTV**

ITEM	DESCRIPTION	QTY/UNIT	RATE(KSHS)
1.	32 CH NVR	1No.	
2.	c) 5MP Bullet Camera d) 4MP Dome Camera	1No.	
3.	Network Switches Port Switch Rack Mountable with PoE and as described in the particular specifications a) 6 Port core switch b) 48 port edge switch c) 12 port edge switch	1No. 1No.	
4.	Cat 7A UTP 8-Pair indoor cable	1No.	
5.	Network Cabinet a) 12U Data Cabinet b) 22U Data Cabinet	1No. 1No.	

SECTION F

BILLS OF QUANTITIES

## BILLS OF QUANTITIES

### SPECIAL NOTES TO THE BILLS OF QUANTITIES

1. The Bills of Quantities form part of the contract documents and are to be read in conjunction with the contract drawings and general specifications of materials and works.
2. **The prices quoted shall be deemed to include for all obligations under the sub-contract including but not limited to supply of materials, labour, delivery to site, storage on site, installation, testing, commissioning and all taxes (including V.A.T and all taxes applicable at the time of tender.**
3. All prices omitted from any item, section or part of the Bills of Quantities shall be deemed to have been included to another item, section or part.
4. The brief descriptions of the items given in the Bills of Quantities are for the purpose of establishing a standard to which the sub-contractor shall adhere to. Otherwise alternative brands of equal and approved quality will be accepted.

Should the sub-contractor install any material not specified here-in before receiving approval from the Project Manager, the sub-contractor shall remove the material in question and, at his own cost, install the proper material.

5. The grand total of prices in the price summary page must be carried forward to the MAIN Summary Page.
6. Tenderers must enclose, together with their submitted tenders, detailed coloured manufacturer's Brochures detailing Technical Literature and specifications on all the equipment they intend to offer.

Statement of Compliance

- a) **I confirm compliance of all clauses of the General Conditions, General Specifications and Particular Specifications in this tender.**
  
- b) I confirm I have not made and will not make any payment to any person, which can be perceived as an inducement to win this tender.

Signed ..... *for and on behalf of the Tenderer*

**Date:** .....

Official    Rubber    Stamp: .....

BILL NO.2 - ELECTRICAL WORKS

ELECTRICAL INSTALLATION WORKS FOR PROPOSED BUNGOMA TVC

SCHEDULE NO.1 - GROUND FLOOR

Item	Description	Qty	Unit	Rate(Ksh)	Amount (Ksh)
	Supply, install, test and commission the following :-				
	<u>LIGHTING POINTS</u>				
1.01	Lighting points wired in 1.5 mm <sup>2</sup> SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for:-				
	a) one way switching	48	No.		
	b) two way switching	127	No.		
	c) unswitched.	12	No.		
	<u>SWITCHES</u>				
1.02	10Amps, switch as Shneider Lisse or equal and approved equivalent as				
	a) one gang one way	12	No.		
	b) one gang two way	0	No.		
	c) two gang one way	4	No.		
	c) two gang two way	20	No.		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with bulbs or tubes as follows:-				
	a) Type 1	20	No.		
	b) Type 2	60	No.		
	c) Type 3	24	No.		
	d) Type 4	22	No.		
	e) Type 5	27	No.		
	f) Type 6	6	No.		
	g) Type 7	12	No.		
	h) Type 8	16	No.		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and/or steel Trunking.	42	No.		
1.04	13 Amps socket outlet points 25mm HG PVC conduits excluding cabling for first floor slab	74	No.		
1.05	13 Amps. Moulded plate switched socket outlet with neon indicator as Schneider or equal and approved equivalent				
	a) single.	2	No.		
	b) twin.	40	No.		
SUB TOTAL C/F TO NEXT PAGE					



Item	Description	Qty	Unit	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following :-				
	<b>SUBTOTAL B/F FROM PREVIOUS PAGE</b>				
1.06	Three phase industrial socket outlet points wired in 4 core 16 mm sq. PVC copper cables drawn in concealed 32mm HG PVC conduits	8	No.		
1.07	63 Amps. Wall mounted industrial socket 3P+N+E complete with plug as Schneider or equal and approved equivalent	8	No.		
1.08	63 A 3P+N isolating switch wall mounted for item above as Katko or equal and approved equivalent	8	No.		
1.09	Single phase industrial socket outlet points wired in 3 core 4 mm sq. PVC copper cables drawn in concealed 25mm HG PVC conduits	12	No.		
1.1	32 Amps. Wall mounted industrial socket 2P complete with plug as Schneider or equal and approved equivalent	12	No.		
1.11	32 A 2P isolating switch wall mounted for item above as Katko or equal and approved equivalent	12	No.		
	<b><u>CCTV</u></b>				
1.12	CCTV points comprising of 25 mm diameter conduit and 1.5 mm <sup>2</sup> single core draw wire but excluding cabling (approximate average length of 32m per point from the data duct)	7	No.		
1.13	Ceiling speaker points wired in 1mm sq. copper cables drawn in concealed 20 mm dia conduits	4	No.		
1.14	Projector points wired in 2.5mm sq. copper cables drawn in concealed 25 mm dia conduits	4	No.		
	<b><u>TRUNKING &amp; DUCTING</u></b>				
1.15	150x50mm two (2) compartment powder coated trunking manufactured in 14 swg galvanized mild steel sheet and finished in cream powder coating to details shown complete with covers, bends and all fixing accessories. Allow for colour change to Architect's detail.	120	Lm		
<b>SUB TOTAL C/F TO NEXT PAGE</b>					



Item	Description	Qty	Unit	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following :-				
	<b>SUBTOTAL B/F FROM PREVIOUS PAGE</b>				
1.16	Powder coated twin punched outlet plate for fixing twin socket outlets and twin data faceplates				
	a) twin.	8	No.		
1.17	Ditto but for data/telephone/single switched socket outlets.	0	No.		
1.18	Lay HG/PVC conduiting of size 2x32mm diameter HG/PVC ducts from the electrical service duct to the metal trunkings for telecommunication services	80	Lm		
1.19	Lay HG/PVC conduiting of size 2x50mm diameter HG/PVC ducts from the electrical service duct to the trunking for internal power reticulation and inter-connecting electrical service ducts.	80	Lm		
	<b><u>TELEPHONE/DATA AND TV WORKS</u></b>				
1.2	Data outlet/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	36	No.		
1.21	RJ45, Data/Telephone Moulded plate as Schneider or approved equivalent.				
	a) twin.	8	No.		
1.22	16 SWG, (300 x 300 x 300) mm <sup>3</sup> galvanised steel draw box for data/TV works.	2	No.		
	<b><u>SUB-MAIN POWER DISTRIBUTION</u></b>				
1.23	Submains comprising 4Core 16 mm <sup>2</sup> PVC/SWA/PVC CU Copper cables from sub-switch board to distribution board	120	LM		
1.24	8 Ways TPN+E, flush mounted Distribution Board complete with 125A integral isolator as SCHNEIDER ELECTRIC or an approved equivalent complete with all accessories but excluding MCBs.	4	No.		
1.25	MCB's for item above				
	(a) 10A, SP	8	No.		
	(b) 20A, SP	10	No.		
	(c) 32A, SP	16	No.		
	(d) 63A, TP	8	No.		
	(e) Blanking plates	5	No.		
	<b>SUB TOTAL C/F TO NEXT PAGE</b>				

Item	Description	Qty	Unit	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following :-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	<u>FIRE ALARM SYSTEM.</u>				
1.26	Fire alarm points wired in 3x2.5mm <sup>2</sup> Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	24	No.		
1.27	Addressable optical smoke detector as MENVIER or equal and approved.	17	No.		
1.28	Addressable heat detector as MENVIER or equal and approved.	0	No.		
1.29	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved equivalent.	2	No.		
1.3	Addressable/Resettable manual call point (Break-glass) incorporating integral short circuit isolator and reset key as Menvier or Approved Equivalent	5	No.		
1.31	1 Loop Addressable fire detection and alarm panel complete with 72 hour stand by batteries, zone indicator lights, test and reset buttons as Menvier or approved equivalent.	1	No.		
1.32	power point wired radial comprising of 3x2.5 mm sq. Heat resistant single core PVCII copper cables drawn in concealed 20mm HG PVC conduits for item 1.31 above.	1	No.		
	<u>FIREMAN'S SWITCH</u>				
1.33	Fireman's switch circuit comprising of 3x2.5 mm <sup>2</sup> Heat resistant single core PVCII copper cables drawn in concealed 20mm HG PVC conduits complete with all fixing materials necessary to the Incomer.	1	LM		
1.34	Firemans switch as MENVIER or approved equivalent.	1	No.		
1.35	Allow for training of Technical staff on the usage and maintenance of the fire alarm system	Item	Item		
	SUB TOTAL C/F TO SUMMARY PAGE PAGE				

Item	Description	Qty	Unit	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
	<u>SUB-SWITCH BOARD</u>				
4.01	Wall mounted modular sub-switchboard fabricated from steel sheet gauge18 , spray painted off-white colour and comprising the following:- i) 320A TP MCCB- Incomer ii)320A Copper busbars Outgoers i)1X100A TP MCCB-Outgoer ii) 10X63A TP MCCBOutgoer iii) 3 phase indicators iv) voltmeter, ammeter and their selector switches v) 1 x space for 3 phase energy meter vi)Enclosure complete with internal wiring	1	No.		
	Any other necessary items to complete the installation	1	Item		
	Earthing to Kenya Power (KP) standard.	1	Item		
	Trenching to a depth of 750mm and width of 450mm, laying, tiling and backfillingand laying of HG ducts for cable from LV board	80	LM		
4.02	Power manhole size 600mm x 600mm x 750mm (deep) internally, consisting of 150mm solid concrete block walls and bottom in cement mortar (1:4), (600 x 600) mm medium duty cast iron cover and frame to BS 497	3	LM		
4.03	150mm <sup>2</sup> four core armoured PVC Copper cables from main LV board to sub-switch board	100	LM		
4.04	Allow Ksh.70,000 for engineer's CPD training	1	Item		
	<b>TOTAL FOR POWER DISTRIBUTION C/F TO MAIN SUMMARY PAGE</b>				

Item	Description	Qty	Unit	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
	<u>AIR TERMINATION</u>				
5.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof , all as FURSE	30	LM		
5.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	4	No.		
	<u>DOWNWARD CONDUCTOR</u>				
5.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	48	LM		
5.04	Copper square tape clamp for making crossing tape joints	15	No.		
5.05	Test clamp as FURSE	4	No.		
	<u>EARTHING.</u>				
5.06	Earthing comprising of the following and any other necessary accessories:-				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	4	No.		
	b) 15 mm dia. Driving stud as FURSE cat.No. ST100.	4	No.		
	c) Rod to tape clamp as FURSE.	4	No.		
	d) Concrete inspection pit as FURSE cat. No.PT005. (or a well made 320mm x 320mmx 210 mm depth pit.)	4	No.		
	e) 25x3mm copper tape	12	LM		
5.07	Any other necessary item to complete the installation	1	Item		
TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE					

ELECTRICAL INSTALLATION SUMMARY

ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Sub total B/F from schedule 1 : - GROUND FLOOR	
D	Sub total B/F from schedule 4 : -POWER DISTRIBUTION	
E	Sub total B/F from schedule 5 : -LIGHTNING PROTECTION	
I	Allow for as installed drawings	
	TOTAL	

SECTION G  
TECHNICAL  
SCHEDULE OF  
ITEMS TO BE SUPPLIED

## **TECHNICAL SCHEDULE**

1. The technical schedule shall be submitted by tenderers to facilitate and enable the Project Manager to evaluate the tenders, especially where the tenderer intends to supply or has based his tender sum on equipment which differs in manufacture, type or performance from the specifications indicated by the Project Manager.
2. The filling of this schedule forms part of Technical Evaluation of the tenders, and bidders shall therefore be required to indicate the type/make and country of origin of all the materials and equipment they intend to offer to the employer in this schedule.
3. This schedule shall form part of the technical evaluation criterion, and tenderers are therefore advised to complete the schedule as they shall be considered responsive.

**TECHNICAL SCHEDULE OF ITEMS TO BE SUPPLIED**

(To be completed by the Tenderer)

Item	Description	TYPE/MAKE	MODEL No.	COUNTRY OF ORIGIN
1	Lighting Fittings			
2	Accessories (Switches, Sockets, TV outlet plates etc)			
3	Cables i) Copper Armoured cable ii) Single Core PVC insulated Cables iii) Fire Resistant Cable			
4	Distribution Board/ Consumer Unit			
5	Fire Alarm System (Addressable Type) i) Manual Call Point ii) Heat Detector iii) Smoke Detector iv) Fire Alarm Panel v) Repeater Panel vi) Fire Beacon Light			
6	PVC Heavy Gauge Conduit			
7	Circuit Breakers i) MCB ii) MCCB			



FOR STRUCTURED CABLING AND CCTV

<b>NO.</b>	<b>DESCRIPTION</b>	<b>MAKE</b>	<b>MODEL NO</b>
1	Core Network Switch		
2	Data Cabinet		
3	CAT 6A UTP Cables		
4	Edge Network Switch		
5	Patch panels		
6	WAP (Wireless Access Point)		
7	Patch cords		
8	CCTV camera		
9	NVR		
10	LED panel display		
11	UPS		
12	Data switches		
13	CAT 6A cable/patch cords		
14	Fibre optic cable		
15	CCTV cameras		
16	Data cabinets		

SECTION H

STANDARD FORMS

	<b><u>TITLE</u></b>	<b><u>PAGE</u></b>
1.	Key Personnel	H/1
2.	Schedule of Contracts completed in the last five (5) years	H/2
3.	Schedule of on-going projects	H/3
4.	Contractor's Equipment	H/4
5.	Details of Litigation or Arbitration Proceedings	H/5

**NOTE:**

- 1.0 Tenderers must duly fill these Standard Forms as a mandatory requirement as they will form part the evaluation criteria.
- 2.0 Any tender returned with Unfilled Standard Forms shall be considered Non-Responsive and shall automatically be Disqualified.



Qualifications and experience of key personnel proposed for administration and execution of the Contract.

POSITION	NAME	HIGHEST QUALIFICATION <i>(Attach proof)</i>	YEARS OF EXPERIENCE (GENERAL)	YEARS OF EXPERIENCE IN PROPOSED POSITION
1.				
2.				
3.				
4.				
5.				
6.				
7.				

I certify that the above information is correct.

.....

Title

.....

Signature

.....

Date

Work performed on works of a similar nature, complexity and volume over the last 5 years.

<i>PROJECT NAME</i>	<i>NAME OF CLIENT</i>	TYPE OF WORK AND YEAR OF COMPLETION	VALUE OF CONTRACT (KSHS.)

I certify that the above works were successfully carried out and completed by ourselves.

.....

.....

.....

Title

Signature

Date

Details of on-going or committed projects, including expected completion date.

<i>PROJECT NAME</i>	<i>NAME OF CLIENT</i>	<i>CONTRACT SUM</i>	<i>% COMPLETE</i>	<i>COMPLETION DATE</i>

I certify that the above works are currently being carried out by ourselves.

.....

.....

.....

Title

Signature

Date

**SCHEDULE OF MAJOR ITEMS OF CONTRACTOR'S EQUIPMENT**  
**PROPOSED FOR CARRYING OUT THE WORKS**

ITEM EQUIPMENT	OF	DESCRIPTION, MAKE AND AGE (Years)		CONDITION (New, good, poor) and number available		OWNED, LEASED (From whom?), or to be purchased (From whom?)



DETAILS OF LITIGATION OR ARBITRATION PROCEEDINGS IN WHICH THE TENDERER HAS BEEN INVOLVED AS ONE OF THE PARTIES IN THE LAST 5 YEARS

1. ....
2. ....
3. ....
4. ....
5. ....
6. ....
7. ....
8. ....
9. ....
10. ....

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><b><u>PRIME COST SUMS</u></b></p> <p><b><u>"ALL PROVISIONAL"</u></b></p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><b><u>The following Provisional Sums are to be measured on completion and priced in accordance with the rates contained in these bills of Quantities or pro-rata thereto or deducted in the whole if not required</u></b></p>				
A	Contingency				2,000,000.00
	<p align="center"><b>PRIME COST SUMS CARRIED TO GRAND SUMMARY</b></p>				2,000,000.00

**PROPOSED AGRICULTURAL ENGINEERING COMPLEX - PHASE 1**

**GRAND SUMMARY**

ITEM	DESCRIPTION	Page No.	FOR TENDERER USE ONLY	FOR OFFICIAL USE ONLY
			<b>K.SHS.</b>	<b>K.SHS.</b>
A	PARTICULAR PRELIMINARIES	PP/9		
B	GENERAL PRELIMINARIES	GP/10		
C	MEASURED WORKS			
D	MECHANICAL WORKS			
E	ELECTRICAL WORKS			
F	PROVISIONAL SUMS			
	<b>SUB-TOTAL</b>			
	<b>GRAND TOTAL (IN KSHS) CARRIED TO FORM OF TENDER</b>			

**Amount in words.** Kenya shillings .....

.....

.....Cents .....

**Tenderer's Signature and stamp**.....

Address .....

.....

..... Date

.....

**Witness Signature** .....

Address .....

.....

... Date

.....

---

**PART III - CONDITIONS OF CONTRACT  
AND CONTRACT FORMS**

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## SECTION VII - GENERAL CONDITIONS OF CONTRACT

These General Conditions of Contract (GCC), read in conjunction with the Special Conditions of Contract (SCC) and other documents listed therein, should be a complete document expressing fairly the rights and obligations of both parties.

These General Conditions of Contract have been developed on the basis of considerable international experience in the drafting and management of contracts, bearing in mind a trend in the construction industry towards simpler, more straightforward language.

The GCC can be used for both smaller admeasurement contracts and lump sum contracts.

### General Conditions of Contract

#### A. General

##### 1. Definitions

Boldface type is used to identify defined terms.

- a) **The Accepted Contract Amount** means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.
- b) **The Activity Schedule** is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump sum contract. It includes a lump sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events.
- c) **The Adjudicator** is the person appointed jointly by the Procuring Entity and the Contractor to resolve disputes in the first instance, as provided for in GCC 23.
- d) **Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid.
- e) **Compensation Events** are those defined in GCC Clause 42 hereunder.
- f) **The Completion Date** is the date of completion of the Works as certified by the Project Manager, in accordance with GCC Sub-Clause 53.1.
- g) **The Contract** is the Contract between the Procuring Entity and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC Sub-Clause 2.3 below.
- h) **The Contractor** is the party whose Bid to carry out the Works has been accepted by the Procuring Entity.
- i) **The Contractor's Bid** is the completed bidding document submitted by the Contractor to the Procuring Entity.
- j) **The Contract Price** is the Accepted Contract Amount stated in the Letter of Acceptance and thereafter as adjusted in accordance with the Contract.
- k) **Days** are calendar days; months are calendar months.
- l) **Day works** are varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant.
- m) **A Defect** is any part of the Works not completed in accordance with the Contract.
- n) **The Defects Liability Certificate** is the certificate issued by Project Manager upon correction of defects by the Contractor.
- o) **The Defects Liability Period** is the period **named in the SCC** pursuant to Sub-Clause 34.1 and calculated from the Completion Date.
- p) **Drawings** means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) the Procuring Entity in accordance with the Contract, include calculations and other information provided or approved by the Project Manager for the execution of the Contract.
- q) **The Procuring Entity** is the party who employs the Contractor to carry out the Works, **as specified in the SCC**, who is also the Procuring Entity.
- r) **Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

- s) **“In writing” or “written”** means hand-written, type-written, printed or electronically made, and resulting in a permanent record;
- t) The Initial Contract Price is the Contract Price listed in the Procuring Entity's Letter of Acceptance.
- u) **The Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is **specified in the SCC**. The Intended Completion Date may be revised only by the Project Manager by issuing an extension of time or an acceleration order.
- v) **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.
- w) **Plant** is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.
- x) **The Project Manager** is the person **named in the SCC** (or any other competent person appointed by the Procuring Entity and notified to the Contractor, to act in replacement of the Project Manager) who is responsible for supervising the execution of the Works and administering the Contract.
- y) **SCC** means Special Conditions of Contract.
- z) **The Site** is the area of the works as **defined as such in the SCC**.
  - aa) **Site Investigation Reports** are those that were included in the bidding document and are factual and interpretative reports about the surface and subsurface conditions at the Site.
  - bb) **Specification** means the Specification of the Works included in the Contract and any modification or addition made or approved by the Project Manager.
  - cc) **The Start Date** is **given in the SCC**. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.
- dd) **A Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.
- ee) **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.
- ff) **A Variation** is an instruction given by the Project Manager which varies the Works.
- gg) **The Works** are what the Contract requires the Contractor to construct, install, and turn over to the Procuring Entity, **as defined in the SCC**.

## 2. Interpretation

In interpreting these GCC, words indicating one gender include all genders. Words indicating the singular also include the plural and words indicating the plural also include the singular. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries about these GCC.

If sectional completion is **specified in the SCC**, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

The documents forming the Contract shall be interpreted in the following order of priority:

- a) Agreement,
- b) Letter of Acceptance,
- c) Contractor's Bid,
- d) Special Conditions of Contract,
- e) General Conditions of Contract, including Appendices,
- f) Specifications,
- g) Drawings,
- h) Bill of Quantities<sup>6</sup>, and
- i) any other document **listed in the SCC** as forming part of the Contract.

<sup>6</sup>In lump sum contracts, delete “Bill of Quantities” and replace with “Activity Schedule.”

### **3. Language and Law**

The language of the Contract is English Language and the law governing the Contract are the Laws of Kenya.

Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in the Procuring Entity's Country 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.

### **4. Project Manager's Decisions**

Except where otherwise specifically stated, the Project Manager shall decide contractual matters between the Procuring Entity and the Contractor in the role representing the Procuring Entity.

### **5. Delegation**

Otherwise **specified in the SCC**, the Project Manager may delegate any of his duties and responsibilities to other people, except to the Adjudicator, after notifying the Contractor, and may revoke any delegation after notifying the Contractor.

### **6. Communications**

Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.

### **7. Subcontracting**

The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Procuring Entity in writing. Subcontracting shall not alter the Contractor's obligations.

### **8. Other Contractors**

The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Procuring Entity between the dates given in the Schedule of Other Contractors, as **referred to in the SCC**. The Contractor shall also provide facilities and services for them as described in the Schedule. The Procuring Entity may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

### **9. Personnel and Equipment**

The Contractor shall employ the key personnel and use the equipment identified in its Bid, to carry out the Works or other personnel and equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of key personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.

If the Project Manager asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

If the Procuring Entity, Project Manager or Contractor determines, that any employee of the Contractor be determined to have engaged in Fraud and Corruption during the execution of the Works, then that employee shall be removed in accordance with Clause 9.2 above.

### **10. Procuring Entity's and Contractor's Risks**

The Procuring Entity carries the risks which this Contract states are Procuring Entity's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

## 11. Procuring Entity's Risks

From the Start Date until the Defects Liability Certificate has been issued, the following are Procuring Entity's risks:

- a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to
  - i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or
  - ii) negligence, breach of statutory duty, or interference with any legal right by the Procuring Entity or by any person employed by or contracted to him except the Contractor.
- b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Procuring Entity or in the Procuring Entity's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.

From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is a Procuring Entity's risk except loss or damage due to

- a) a Defect which existed on the Completion Date,
- b) an event occurring before the Completion Date, which was not itself a Procuring Entity's risk, or
- c) the activities of the Contractor on the Site after the Completion Date.

## 12. Contractor's Risks

From the Starting Date until the Defects Liability Certificate has been issued, the risks of personal injury, death, and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Procuring Entity's risks are Contractor's risks.

## 13. Insurance

The Contractor shall provide, in the joint names of the Procuring Entity and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles **stated in the SCC** for the following events which are due to the Contractor's risks:

- a) loss of or damage to the Works, Plant, and Materials;
- b) loss of or damage to Equipment;
- c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
- d) personal injury or death.

Policies and certificates for insurance shall be delivered by the Contractor to the Project Manager for the Project Manager's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

If the Contractor does not provide any of the policies and certificates required, the Procuring Entity may effect the insurance which the Contractor should have provided and recover the premiums the Procuring Entity has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.

Alterations to the terms of an insurance shall not be made without the approval of the Project Manager.

Both parties shall comply with any conditions of the insurance policies.

## 14. Site Data

The Contractor shall be deemed to have examined any Site Data **referred to in the SCC**, supplemented by any information available to the Contractor.

## 15. Contractor to Construct the Works

The Contractor shall construct and install the Works in accordance with the Specifications and Drawings.



## **16. The Works to Be Completed by the Intended Completion Date**

The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Project Manager, and complete them by the Intended Completion Date.

## **17. Approval by the Project Manager**

The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, for his approval.

The Contractor shall be responsible for design of Temporary Works.

The Project Manager's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.

All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Project Manager before this use.

## **18. Safety**

The Contractor shall be responsible for the safety of all activities on the Site.

## **19. Discoveries**

Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Procuring Entity. The Contractor shall notify the Project Manager of such discoveries and carry out the Project Manager's instructions for dealing with them.

## **20. Possession of the Site**

The Procuring Entity shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date **stated in the SCC**, the Procuring Entity shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.

## **21. Access to the Site**

The Contractor shall allow the Project Manager and any person authorized by the Project Manager access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

## **22. Instructions, Inspections and Audits**

The Contractor shall carry out all instructions of the Project Manager which comply with the applicable laws where the Site is located.

The Contractor shall keep, and shall make all reasonable efforts to cause its Subcontractors and sub-consultants to keep, accurate and systematic accounts and records in respect of the Works in such form and details as will clearly identify relevant time changes and costs.

The Contractor shall permit and shall cause its subcontractors and sub-consultants to permit, the Procuring Entity and/or persons appointed by the Public Procurement Regulatory Authority 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 Public Procurement Regulatory Authority. The Contractor's and its Subcontractors' and sub-consultants' attention is drawn to Sub-Clause 25.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Public Procurement Regulatory Authority's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Public Procurement Regulatory Authority's prevailing sanctions procedures).

### 23. Appointment of the Adjudicator

The Adjudicator shall be appointed jointly by the Procuring Entity and the Contractor, at the time of the Procuring Entity's issuance of the Letter of Acceptance. If, in the Letter of Acceptance, the Procuring Entity does not agree on the appointment of the Adjudicator, the Procuring Entity will request the Appointing Authority **designated in the SCC**, to appoint the Adjudicator within 14 days of receipt of such request.

Should the Adjudicator resign or die, or should the Procuring Entity and the Contractor agree that the Adjudicator is not functioning in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Procuring Entity and the Contractor. In case of disagreement between the Procuring Entity and the Contractor, within 30 days, the Adjudicator shall be designated by the Appointing Authority **designated in the SCC** at the request of either party, within 14 days of receipt of such request.

### 24. Settlement of Claims and Disputes

#### Contractor's Claims

If the Contractor considers itself to be entitled to any extension of the Time for Completion and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give Notice to the Project Manager, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 30 days after the Contractor became aware, or should have become aware, of the event or circumstance.

If the Contractor fails to give notice of a claim within such period of 30 days, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Procuring Entity shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Sub- Clause shall apply.

The Contractor shall also submit any other notices which are required by the Contract, and supporting particulars for the claim, all as relevant to such event or circumstance.

The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at another location acceptable to the Project Manager. Without admitting the Procuring Entity's liability, the Project Manager may, after receiving any notice under this Sub-Clause, monitor the record- keeping and/or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Project Manager to inspect all these records, and shall (if instructed) submit copies to the Project Manager.

Within 42 days after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Project Manager, the Contractor shall send to the Project Manager a fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect:

- a) this fully detailed claim shall be considered as interim;
- b) the Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/or amount claimed, and such further particulars as the Project Manager may reasonably require; and
- c) the Contractor shall send a final claim within 30 days after the end of the effects resulting from the event or circumstance, or within such other period as may be proposed by the Contractor and approved by the Project Manager.

Within 42 days after receiving a Notice of a claim or any further particulars supporting a previous claim, or within such other period as may be proposed by the Project Manager and approved by the Contractor, the Project Manager shall respond with approval, or with disapproval and detailed comments. He may also request any necessary further particulars, but shall nevertheless give his response on the principles of the claim within the above defined time period.

Within the above defined period of 42 days, the Project Manager shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the extension (if any) of the Time for Completion (before or after its expiry) in accordance with Sub-Clause 8.4 [Extension of Time for Completion], and/or (ii) the additional payment (if any) to which the Contractor is entitled under the Contract.

Each Payment Certificate shall include such additional payment for any claim as has been reasonably substantiated as due under the relevant provision of the Contract. Unless and until the particulars supplied are sufficient to substantiate the whole of the claim, the Contractor shall only be entitled to payment for such part of the claim as he has been able to substantiate.

If the Project Manager does not respond within the timeframe defined in this Clause, either Party may consider that the claim is rejected by the Project Manager and any of the Parties may refer to Arbitration in accordance with Sub-Clause 24.4 [Arbitration].

The requirements of this Sub-Clause are in addition to those of any other Sub-Clause which may apply to a claim. If the Contractor fails to comply with this or another Sub-Clause in relation to any claim, any extension of time and/or additional payment shall take account of the extent (if any) to which the failure has prevented or prejudiced proper investigation of the claim, unless the claim is excluded under the second paragraph of this Sub-Clause 24.3.

### **Amicable Settlement**

Where a notice of a claim has been given, both Parties shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both Parties agree otherwise, the Party giving a notice of a claim in accordance with Sub-Clause 24.1 above should move to commence arbitration after the fifty-sixth day from the day on which a notice of a claim was given, even if no attempt at an amicable settlement has been made.

### **Matters that may be referred to arbitration**

Notwithstanding anything stated herein the following matters may be referred to arbitration before the practical completion of the Works or abandonment of the Works or termination of the Contract by either party:

- a) The appointment of a replacement Project Manager upon the said person ceasing to act.
- b) Whether or not the issue of an instruction by the Project Manager is empowered by these Conditions.
- c) Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.
- e) Any dispute arising in respect of war risks or war damage.
- f) All other matters shall only be referred to arbitration after the completion or alleged completion of the Works or termination or alleged termination of the Contract, unless the Procuring Entity and the Contractor agree otherwise in writing.

### **Arbitration**

Any claim or dispute between the Parties arising out of or in connection with the Contract not settled amicably in accordance with Sub-Clause 24.3 shall be finally settled by arbitration.

No arbitration proceedings shall be commenced on any claim or dispute where notice of a claim or dispute has not been given by the applying party within ninety days of the occurrence or discovery of the matter or issue giving rise to the dispute.

Notwithstanding the issue of a notice as stated above, the arbitration of such a claim or dispute shall not commence unless an attempt has in the first instance been made by the parties to settle such claim or dispute amicably with or without the assistance of third parties. Proof of such attempt shall be required.

The Arbitrator shall, without prejudice to the generality of his powers, have powers to direct such measurements, computations, tests or valuations as may in his opinion be desirable in order to determine the rights of the parties and assess and award any sums which ought to have been the subject of or included in any certificate.

The Arbitrator shall, without prejudice to the generality of his powers, have powers to open up, review and revise any certificate, opinion, decision, requirement or notice and to determine all matters in dispute which shall be submitted to him in the same manner as if no such certificate, opinion, decision requirement or notice had been given.

The arbitrators shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Project Manager, relevant to the dispute. Nothing shall disqualify representatives

of the Parties and the Project Manager from being called as a witness and giving evidence before the arbitrators on any matter whatsoever relevant to the dispute.

Neither Party shall be limited in the proceedings before the arbitrators to the evidence, or to the reasons for dissatisfaction given in its Notice of Dissatisfaction.

Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, and the Project Manager shall not be altered by reason of any arbitration being conducted during the progress of the Works.

24.4.8 The terms of the remuneration of each or all the members of Arbitration shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration.

#### **Arbitration with National Contractors**

If the Contract is with national contractors, arbitration proceedings will be conducted in accordance with the Arbitration Laws of Kenya. In case of any claim or dispute, such claim or dispute shall be notified in writing by either party to the other with a request to submit it to arbitration and to concur in the appointment of an Arbitrator within thirty days of the notice. The dispute shall be referred to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed, on the request of the applying party, by the Chairman or Vice Chairman of any of the following professional institutions;

- i) Architectural Association of Kenya
- ii) Institute of Quantity Surveyors of Kenya
- iii) Association of Consulting Engineers of Kenya
- iv) Chartered Institute of Arbitrators (Kenya Branch)
- v) Institution of Engineers of Kenya

The institution written to first by the aggrieved party shall take precedence over all other institutions.

#### **Alternative Arbitration Proceedings**

Alternatively, the Parties may refer the matter to the Nairobi Centre for International Arbitration (NCIA) which offers a neutral venue for the conduct of national and international arbitration with commitment to providing institutional support to the arbitral process.

#### **Failure to Comply with Arbitrator's Decision**

The award of such Arbitrator shall be final and binding upon the parties.

In the event that a Party fails to comply with a final and binding Arbitrator's decision, then the other Party may, without prejudice to any other rights it may have, refer the matter to a competent court of law.

#### **Contract operations to continue**

Notwithstanding any reference to arbitration herein,

- a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
- b) the Procuring Entity shall pay the Contractor any monies due the Contractor.

### **25. Fraud and Corruption**

The Government requires compliance with the country's Anti-Corruption laws and its prevailing sanctions policies and procedures as set forth in the Constitution of Kenya and its Statutes.

The Procuring Entity requires the Contractor 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 bidding 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. Time Control**

### **26. Program**

Within the time **stated in the SCC**, after the date of the Letter of Acceptance, the Contractor shall submit to the Project Manager for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works. In the case of a lump sum contract, the activities in the Program shall be consistent with those in the Activity Schedule.

An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.

The Contractor shall submit to the Project Manager for approval an updated Program at intervals no longer than the period **stated in the SCC**. If the Contractor does not submit an updated Program within this period, the Project Manager may withhold the amount **stated in the SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. In the case of a lump sum contract, the Contractor shall provide an updated Activity Schedule within 14 days of being instructed to by the Project Manager.

The Project Manager's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Project Manager again at any time. A revised Program shall show the effect of Variations and Compensation Events.

### **27. Extension of the Intended Completion Date**

The Project Manager shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.

The Project Manager shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Project Manager for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

### **28. Acceleration**

When the Procuring Entity wants the Contractor to finish before the Intended Completion Date, the Project Manager shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Procuring Entity accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Procuring Entity and the Contractor.

If the Contractor's priced proposals for an acceleration are accepted by the Procuring Entity, they are incorporated in the Contract Price and treated as a Variation.

### **29. Delays Ordered by the Project Manager**

The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.

### **30. Management Meetings**

Either the Project Manager or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.

The Project Manager shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Procuring Entity. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

### **31. Early Warning**

The Contractor shall warn the Project Manager at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Project Manager may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.

The Contractor shall cooperate with the Project Manager in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Project Manager.

## **C. Quality Control**

### **32. Identifying Defects**

The Project Manager shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Project Manager may instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.

### **33. Tests**

If the Project Manager instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.

### **34. Correction of Defects**

The Project Manager shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion, and is **defined in the SCC**. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.

Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager's notice.

### **35. Uncorrected Defects**

If the Contractor has not corrected a Defect within the time specified in the Project Manager's notice, the Project Manager shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.

## **D. Cost Control**

### **36. Contract Price<sup>7</sup>**

The Bill of Quantities shall contain priced items for the Works to be performed by the Contractor. The Bill of Quantities is used to calculate the Contract Price. The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.

### 37. Changes in the Contract Price<sup>8</sup>

If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 1 percent of the Initial Contract Price, the Project Manager shall adjust the rate to allow for the change. The Project Manager shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 15 percent, except with the prior approval of the Procuring Entity.

If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the Bill of Quantities.

### 38. Variations

All Variations shall be included in updated Programs<sup>9</sup> produced by the Contractor.

The Contractor shall provide the Project Manager with a quotation for carrying out the Variation when requested to do so by the Project Manager. The Project Manager shall assess the quotation, which shall be given within seven (7) days of the request or within any longer period stated by the Project Manager and before the Variation is ordered.

If the Contractor's quotation is unreasonable, the Project Manager may order the Variation and make a change to the Contract Price, which shall be based on the Project Manager's own forecast of the effects of the Variation on the Contractor's costs.

If the Project Manager decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.

The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.

If the work in the Variation corresponds to an item description in the Bill of Quantities and if, in the opinion of the Project Manager, the quantity of work above the limit stated in Sub-Clause 39.1 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work<sup>10</sup>.

Value Engineering: The Contractor may prepare, at its own cost, a value engineering proposal at any time during the performance of the contract. The value engineering proposal shall, at a minimum, include the following;

- a) the proposed change(s), and a description of the difference to the existing contract requirements;
- b) a full cost/benefit analysis of the proposed change(s) including a description and estimate of costs (including life cycle costs) the Procuring Entity may incur in implementing the value engineering proposal; and
- c) a description of any effect(s) of the change on performance/functionality.

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

- a) accelerate the contract completion period; or
- b) reduce the Contract Price or the life cycle costs to the Procuring Entity; or
- c) improve the quality, efficiency, safety or sustainability of the Facilities; or
- d) yield any other benefits to the Procuring Entity, without compromising the functionality of the Works.

<sup>7</sup>In lump sum contracts, replace GCC Sub-Clauses 36.1 as follows:

36.1 The Contractor shall provide updated Activity Schedules within 14 days of being instructed to by the Project Manager. The Activity Schedule shall contain the priced activities for the Works to be performed by the Contractor. The Activity Schedule is used to monitor and control the performance of activities on which basis the Contractor will be paid. If payment for materials on site shall be made separately, the Contractor shall show delivery of Materials to the Site separately on the Activity Schedule.

<sup>8</sup>In lump sum contracts, replace entire GCC Clause 37 with new GCC Sub-Clause 37.1, as follows:

The Activity Schedule shall be amended by the Contractor to accommodate changes of Program or method of working made at the Contractor's own discretion. Prices in the Activity Schedule shall not be altered when the Contractor makes such changes to the Activity Schedule.

<sup>9</sup>In lump sum contracts, add "and Activity Schedules" after "Programs." <sup>10</sup>In lump sum contracts, delete this paragraph.

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 Contractor 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 Contractor shall be the full increase in the Contract Price.

### **39. Cash Flow Forecasts**

When the Program<sup>11</sup>, is updated, the Contractor shall provide the Project Manager with an updated cash flow forecast. The cash flow forecast shall include different currencies, as defined in the Contract, converted as necessary using the Contract exchange rates.

### **40. Payment Certificates**

The Contractor shall submit to the Project Manager monthly statements of the estimated value of the work executed less the cumulative amount certified previously.

The Project Manager shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.

The value of work executed shall be determined by the Project Manager.

The value of work executed shall comprise the value of the quantities of work in the Bill of Quantities that have been completed<sup>12</sup>.

The value of work executed shall include the valuation of Variations and Compensation Events.

The Project Manager may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

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: *(corrected tender price – tender price)/tender price X 100*.

### **41. Payments**

Payments shall be adjusted for deductions for advance payments and retention. The Procuring Entity shall pay the Contractor the amounts certified by the Project Manager within 30 days of the date of each certificate. If the Procuring Entity makes a late payment, the Contractor shall be paid interest on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at the prevailing rate of interest for commercial borrowing for each of the currencies in which payments are made.

If an amount certified is increased in a later certificate or as a result of an award by the Adjudicator or an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.

Unless otherwise stated, all payments and deductions shall be paid or charged in the proportions of currencies comprising the Contract Price.

Items of the Works for which no rate or price has been entered in shall not be paid for by the Procuring Entity and shall be deemed covered by other rates and prices in the Contract.

<sup>11</sup>In lump sum contracts, add "or Activity Schedule" after "Program."

<sup>12</sup>In lump sum contracts, replace this paragraph with the following: "The value of work executed shall comprise the value of completed activities in the Activity Schedule."



## 42. Compensation Events

The following shall be Compensation Events:

- a) The Procuring Entity does not give access to a part of the Site by the Site Possession Date pursuant to GCC Sub-Clause 20.1.
- b) The Procuring Entity modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.
- c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time.
- d) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.
- e) The Project Manager unreasonably does not approve a subcontract to be let.
- f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.
- g) The Project Manager gives an instruction for dealing with an unforeseen condition, caused by the Procuring Entity, or additional work required for safety or other reasons.
- h) Other contractors, public authorities, utilities, or the Procuring Entity does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
- i) The advance payment is delayed.
- j) The effects on the Contractor of any of the Procuring Entity's Risks.
- k) The Project Manager unreasonably delays issuing a Certificate of Completion.

If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.

As soon as information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Project Manager, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager shall assume that the Contractor shall react competently and promptly to the event.

The Contractor shall not be entitled to compensation to the extent that the Procuring Entity's interests are adversely affected by the Contractor's not having given early warning or not having cooperated with the Project Manager.

## 43. Tax

The Project Manager shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 30 days before the submission of bids for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor, provided such changes are not already reflected in the Contract Price or are a result of GCC Clause 44.

## 44. Currency of Payment

All payments under the contract shall be made in Kenya Shillings

## 45. Price Adjustment

Prices shall be adjusted for fluctuations in the cost of inputs only if **provided for in the SCC**. If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by

applying the respective price adjustment factor to the payment amounts due in each currency. A separate formula of the type specified below applies:

$$P = A + B I_m/I_o$$

where: P is the adjustment factor for the portion of the Contract Price payable.

A and B are coefficients<sup>13</sup> **specified in the SCC**, representing the non-adjustable and adjustable portions, respectively, of the Contract Price payable and  $I_m$  is the index prevailing at the end of the month being invoiced and  $I_o$  is the index prevailing 30 days before Bid opening for inputs payable.

If the value of the index is changed after it has been used in a calculation, the calculation shall be corrected and an adjustment made in the next payment certificate. The index value shall be deemed to take account of all changes in cost due to fluctuations in costs.

#### 46. Retention

The Procuring Entity shall retain from each payment due to the Contractor the proportion **stated in the SCC** until Completion of the whole of the Works.

Upon the issue of a Certificate of Completion of the Works by the Project Manager, in accordance with GCC 53.1, half the total amount retained shall be repaid to the Contractor and half when the Defects Liability Period has passed and the Project Manager has certified that all Defects notified by the Project Manager to the Contractor before the end of this period have been corrected. The Contractor may substitute retention money with an “on demand” Bank guarantee.

#### 47. Liquidated Damages

The Contractor shall pay liquidated damages to the Procuring Entity at the rate per day **stated in the SCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount **defined in the SCC**. The Procuring Entity may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

If the Intended Completion Date is extended after liquidated damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in GCC Sub-Clause 41.1.

#### 48. Bonus

The Contractor shall be paid a Bonus calculated at the rate per calendar day **stated in the SCC** for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Project Manager shall certify that the Works are complete, although they may not be due to be complete.

#### 49. Advance Payment

The Procuring Entity shall make advance payment to the Contractor of the amounts **stated in the SCC** by the date **stated in the SCC**, against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Procuring Entity in amounts and currencies equal to the advance payment. The Guarantee shall remain effective until the advance payment has been repaid, but the amount of the Guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment.

The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Project Manager.

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<sup>13</sup>The sum of the two coefficients A and B should be 1 (one) in the formula for each currency. Normally, both coefficients shall be the same in the formulae for all currencies, since coefficient A, for the non-adjustable portion of the payments, is a very approximate figure (usually 0.15) to take account of fixed cost elements or other non-adjustable components. The sum of the adjustments for each currency are added to the Contract Price.

The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.

## **50. Securities**

The Performance Security shall be provided to the Procuring Entity no later than the date specified in the Letter of Acceptance and shall be issued in an amount **specified in the SCC**, by a bank or surety acceptable to the Procuring Entity, and denominated in the types and proportions of the currencies in which the Contract Price is payable. The Performance Security shall be valid until a date 28 day from the date of issue of the Certificate of Completion in the case of a Bank Guarantee, and until one year from the date of issue of the Completion Certificate in the case of a Performance Bond.

## **51. Dayworks**

If applicable, the Dayworks rates in the Contractor's Bid shall be used only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.

All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be verified and signed by the Project Manager within two days of the work being done.

The Contractor shall be paid for Day works subject to obtaining signed Day works forms.

## **52. Cost of Repairs**

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

## **E. Finishing the Contract**

### **53. Completion**

The Contractor shall request the Project Manager to issue a Certificate of Completion of the Works, and the Project Manager shall do so upon deciding that the whole of the Works is completed.

### **54. Taking Over**

The Procuring Entity shall take over the Site and the Works within seven days of the Project Manager's issuing a certificate of Completion.

### **55. Final Account**

The Contractor shall supply the Project Manager with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Project Manager shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Project Manager shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Project Manager shall decide on the amount payable to the Contractor and issue a payment certificate.

### **56. Operating and Maintenance Manuals**

If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates **stated in the SCC**.

If the Contractor does not supply the Drawings and/or manuals by the dates **stated in the SCC** pursuant to GCC Sub-Clause 56.1, or they do not receive the Project Manager's approval, the Project Manager shall withhold the amount **stated in the SCC** from payments due to the Contractor.

## 57. Termination

The Procuring Entity or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

Fundamental breaches of Contract shall include, but shall not be limited to, the following:

- a) the Contractor stops work for 30 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Project Manager;
- b) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 30 days;
- c) the Procuring Entity or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- d) a payment certified by the Project Manager is not paid by the Procuring Entity to the Contractor within 84 days of the date of the Project Manager's certificate;
- e) the Project Manager gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager;
- f) the Contractor does not maintain a Security, which is required;
- g) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as **defined in the SCC**; or
- h) if the Contractor, in the judgment of the Procuring Entity has engaged in Fraud and Corruption, as defined in paragraph 2.2 a of the Appendix A to the GCC, in competing for or in executing the Contract, then the Procuring Entity may, after giving fourteen (14) days written notice to the Contractor, terminate the Contract and expel him from the Site.

Notwithstanding the above, the Procuring Entity may terminate the Contract for convenience.

If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

When either party to the Contract gives notice of a breach of Contract to the Project Manager for a cause other than those listed under GCC Sub-Clause 56.2 above, the Project Manager shall decide whether the breach is fundamental or not.

## 58. Payment upon Termination

If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Project Manager shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as **specified in the SCC**. Additional Liquidated Damages shall not apply. If the total amount due to the Procuring Entity exceeds any payment due to the Contractor, the difference shall be a debt payable to the Procuring Entity.

If the Contract is terminated for the Procuring Entity's convenience or because of a fundamental breach of Contract by the Procuring Entity, the Project Manager shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.

## 59. Property

All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Procuring Entity if the Contract is terminated because of the Contractor's default.

## 60. Release from Performance

If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Procuring Entity or the Contractor, the Project Manager shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

## SECTION IX - SPECIAL CONDITIONS OF CONTRACT

Except where otherwise specified, all Special Conditions of Contract should be filled in by the Procuring Entity prior to issuance of the bidding document. Schedules and reports to be provided by the Procuring Entity should be annexed.

<b>A. General</b>	
<b>GCC 1.1 (r)</b>	The Procuring Entity is: <b>PRINCIPAL/ BOG SECRETARY, BUNGOMA NORTH TECHNICAL &amp; VOCATIONAL COLLEGE P.O. BOX 72-50211, NAITIRI</b>
<b>GCC 1.1 (v)</b>	The Intended Completion Date for the whole works shall be: .... <b>32 Weeks from the date of Site Possession</b> ....
<b>GCC 1.1 (y)</b>	The Project Manager is: <b>Regional Works Officer, Nyanza Region – State Department of Public Works P.O. Box 821 - 40100, Kisumu</b>
<b>GCC 1.1 (aa)</b>	The Site is located at: <b>Bungoma</b>
<b>GCC 1.1 (dd)</b>	The Start Date shall be: <b>agreed by the Project Manager</b>
<b>GCC 1.1 (hh)</b>	The Works consist of: <b>PROPOSED CONSTRUCTION OF AGRICULTURAL ENGINEERING COMPLEX AT BUNGOMA NORTH TVC -PHASE 1</b>  <b>Tender No.: BNTVC/T/2023-2024/2</b>
<b>GCC 2.2</b>	There are No Sectional Completions.
<b>GCC 5.1</b>	The Project Manager [ <i>may or may not</i> ] delegate any of his duties
<b>GCC 8.1</b>	Schedule of other contractors: <i>N/A</i>
<b>GCC 9.1</b>	<b>Key Personnel</b> GCC 9.1 is replaced with the following: 9.1 Key Personnel are the Contractor’s personnel named in this GCC 9.1 Special Conditions of Contract. The Contractor shall employ the Key of the Personnel and use the equipment identified in its Bid, to carry out the Works or other personnel and equipment approved by the Project Manager. The Project Manager shall approve any proposed replacement of Key Personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.  [insert the name/s of each Key Personnel agreed by the Procuring Entity prior to Contract signature.]
<b>GCC 13.1</b>	The minimum insurance amounts and deductibles shall be: <i>(TO BE DETERMINED BY THE INSURING COMPANY)</i> (a) for loss or damage to the Works, Plant and Materials: [ <i>insert amounts</i> ]. (b) For loss or damage to Equipment: [ <i>insert amounts</i> ]. (c) for loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract [ <i>insert amounts</i> ]. (d)for personal injury or death: (i) of the Contractor’s employees: [ <i>amount</i> ]. (ii) of other people: [ <i>amount</i> ].

<b>GCC 14.1</b>	Site Data are: <b>Principal/ B.O.G Secretary – Bungoma North Technical &amp; Vocational College</b>
<b>GCC 20.1</b>	The Site Possession Date(s) shall be: <i>as agreed by the Project Manager</i>
<b>GCC 23.1 &amp; GCC 23.2</b>	Appointing Authority for the Adjudicator: <i>[insert name of Authority]</i> .
<b>GCC 24.3</b>	Hourly rate and types of reimbursable expenses to be paid to the Adjudicator: <i>[insert hourly fees and reimbursable expenses]</i> .
<b>B. Time Control</b>	
<b>GCC 26.1</b>	The Contractor shall submit for approval a Program for the Works within <b>14 days</b> from the date of the Letter of Acceptance.
<b>GCC 26.3</b>	The period between Program updates is <i>[14]</i> days. The amount to be withheld for late submission of an updated Program is <i>[insert amount]</i> .
<b>C. Quality Control</b>	
<b>GCC 34.1</b>	The Defects Liability Period is: <b>180 days</b> .
<b>D. Cost Control</b>	
<b>GCC 38.7</b>	If the value engineering proposal is approved by the Procuring Entity the amount to be paid to the Contractor shall be 10% of the reduction in the Contract Price.
<b>GCC 44.1</b>	The currency of the Procuring Entity's Country is: <b>Kenya Shillings</b>
<b>GCC 45.1</b>	The Contract <i>is not</i> subject to price adjustment in accordance with GCC Clause 45, and the following information regarding coefficients “ <i>does not</i> ” apply. The coefficients for adjustment of prices are:N/A (a) <i>[insert percentage]</i> percent nonadjustable element (coefficient A).(ib) <i>[insert percentage]</i> percent adjustable element (coefficient B). (c) The Index I for shall be <i>[insert index]</i> .
<b>GCC 46.1</b>	The proportion of payments retained is: <b>10%</b>
<b>GCC 47.1</b>	The liquidated damages for the whole of the Works are <b>0.1% percent of the Contract Price</b> per day. The maximum amount of liquidated damages for the whole of the Works is <b>10%</b> of the final Contract Price.

<b>GCC 48.1</b>	There is no Bonus for early completion.
<b>GCC 49.1</b>	The shall be no Advance Payments.
<b>GCC 50.1</b>	The Performance Security amount is: <i>5% of the Contract Price issued by recognised financial institution or insurance company.</i>  (a) Performance Security - Bank Guarantee: in the amount(s) of <i>[insert related figure(s)]</i> percent of the Accepted Contract Amount and in the same currency(ies) of the Accepted Contract Amount.
<b>E. Finishing the Contract</b>	
<b>GCC 56.1</b>	The date by which "as built" drawings are required is: <i>date agreed by the Project Manager</i>
<b>GCC 56.2</b>	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required in GCC 58.1 is: <i>1% of the Contract Price</i>
<b>GCC 57.2 (g)</b>	The maximum number of days is: <i>AS DETERMINED BY THE PROJECT MANAGER</i>
<b>GCC 58.1</b>	The percentage to apply to the value of the work not completed, representing the Procuring Entity's additional cost for completing the Works, is <i>[10%]</i> .

## **FORM No 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 Tender Information Form on the format below.

-----

### **FORMAT**

1. **For the attention of Tenderer's Authorized Representative**

- i) Name: *[insert Authorized Representative's name]*
- ii) Address: *[insert Authorized Representative's Address]*
- iii) Telephone: *[insert Authorized Representative's telephone/fax numbers]*
- iv) Email Address: *[insert Authorized Representative's email address]*

*[IMPORTANT: insert the date that this Notification is transmitted to 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.]*

2. **Date of transmission:** *[email]* on *[date]* (local time)

This Notification is sent by *(Name and designation)* \_\_\_\_\_

3. **Notification of Intention to Award**

- i) Procuring Entity: *[insert the name of the Procuring Entity]*
- ii) Project: *[insert name of project]*
- iii) Contract title: *[insert the name of the contract]*
- iv) Country: *[insert country where ITT is issued]*
- v) 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:

4. **Request a debriefing in relation to the evaluation of your tender**

Submit a Procurement-related Complaint in relation to the decision to award the contract.

a) The successful tenderer

i) Name of successful Tender \_\_\_\_\_

ii) Address of the successful Tender \_\_\_\_\_

iii) Contract price of the successful Tender Kenya Shillings \_\_\_\_\_ (in words \_\_\_\_\_)

b) Other Tenderers

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. For Tenders not evaluated, give one main reason the Tender was unsuccessful.



SNo	Name of Tender	Tender Price as read out	Tender's evaluated price (Note a)	One Reason Why not Evaluated
1				
2				
3				
4				
5				

(Note a) State NE if not evaluated

5. **How to request a debriefing**

- a) DEADLINE: The deadline to request a debriefing expires at midnight on [*insert date*] (*local time*).
- b) 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 (5) Business Days of receipt of this Notification of Intention to Award.
- c) Provide the contract name, reference number, name of the Tenderer, contact details; and address the request for debriefing as follows:
  - i) Attention: [*insert full name of person, if applicable*]
  - ii) Title/position: [*insert title/position*]
  - ii) Agency: [*insert name of Procuring Entity*]
  - iii) Email address: [*insert email address*]
- d) If your request for a debriefing is received within the 3 Days deadline, we will provide the debriefing within five (3) 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 (3) 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.
- e) 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.
- f) 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) Days from the date of publication of the Contract Award Notice.

6. **How to make a complaint**

- a) Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [*insert date*] (*local time*).
- b) Provide the contract name, reference number, name of the Tenderer, contact details; and address the Procurement-related Complaint as follows:
  - i) Attention: [*insert full name of person, if applicable*]
  - ii) Title/position: [*insert title/position*]
  - iii) Agency: [*insert name of Procuring Entity*]
  - iv) Email address: [*insert email address*]
- c) 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.
- d) 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](mailto:info@ppra.go.ke) or [complaints@ppra.go.ke](mailto:complaints@ppra.go.ke). You should read these documents before preparing and submitting your complaint.
- e) There are four essential requirements:
  - i) You must be an 'interested party'. In this case, that means a Tenderer who submitted a Tender in this tendering process, and is the recipient of a Notification of Intention to Award.
  - ii) The complaint can only challenge the decision to award the contract.
  - iii) You must submit the complaint within the period stated above.

iv) You must include, in your complaint, all of the information required to support your complaint.

7. Standstill Period

- i) DEADLINE: The Standstill Period is due to end at midnight on [*insert date*] (local time).
- ii) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention to Award.
- iii) The Standstill Period may be extended as stated in paragraph Section 5 (d) above.

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:** \_\_\_\_\_

**FORM NO 2: NOTIFICATION OF AWARD - LETTER OF ACCEPTANCE**

*[letterhead paper of the Procuring Entity] [date]*

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

This is to notify you that your Tender dated *[date]* for execution of the *[name of the Contract and identification number, as given in the Contract Data]* for the Accepted Contract Amount *[amount in numbers and words] [name of currency]*, as corrected and modified in accordance with the Instructions to Tenderers, is hereby accepted by ..... *(name of Procuring Entity)*.

You are requested to furnish the Performance Security within 30 days in accordance with the Conditions of Contract, using, for that purpose, one of the Performance Security Forms included in Section VIII, Contract Forms, of the Tender Document.

Authorized Signature: .....

Name and Title of Signatory: .....

Name of Procuring Entity.....

Attachment: *Contract Agreement*.....

**FORM NO 3: CONTRACT AGREEMENT**

THIS AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, between \_\_\_\_\_ of \_\_\_\_\_ (hereinafter “the Procuring Entity”), of the one part, and \_\_\_\_\_ of \_\_\_\_\_ (hereinafter “the Contractor”), of the other part:

WHEREAS the Procuring Entity desires that the Works known as \_\_\_\_\_ should be executed by the Contractor, and has accepted a Tender by the Contractor for the execution and completion of these Works and the remedying of any defects therein,

The Procuring Entity and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
  - a) the Letter of Acceptance
  - b) the Letter of Tender
  - c) the addenda Nos \_\_\_\_\_ (if any)
  - d) the Special Conditions of Contract
  - e) the General Conditions of Contract;
  - f) the Specifications
  - g) the Drawings; and
  - h) the completed Schedules and any other documents forming part of the contract.
3. In consideration of the payments to be made by the Procuring Entity to the Contractor as specified in this Agreement, the Contractor hereby covenants with the Procuring Entity to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Procuring Entity hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the Laws of Kenya on the day, month and year specified above.

Signed and sealed by \_\_\_\_\_ (for the Procuring Entity)

Signed and sealed by \_\_\_\_\_ (for the Contractor).

**FORM NO. 4 - PERFORMANCE SECURITY**

**[Option 1 - Unconditional Demand Bank Guarantee]**

*[Guarantor letterhead]*

**Beneficiary:** \_\_\_\_\_ *[insert name and Address of Procuring Entity]* **Date:** \_\_\_\_\_

\_\_\_\_\_ *[Insert date of issue]*

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

1. We have been informed that \_\_\_\_\_ (hereinafter called "the Contractor") has entered into Contract No. \_\_\_\_\_ dated \_\_\_\_\_ with (name of Procuring Entity) \_\_\_\_\_ (the Procuring Entity as the Beneficiary), for the execution of \_\_\_\_\_ (hereinafter called "the Contract").
2. Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.
3. At the request of the Contractor, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of \_\_\_\_\_ (in words),<sup>1</sup> such sum being payable in the types and proportions of currencies in which the Contract Price is payable, 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 that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.
4. This guarantee shall expire, no later than the .... Day of ....., 2.....<sup>2</sup>, and any demand for payment under it must be received by us at the office indicated above on or before that date.
5. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months]* *[one year]*, in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

*[Name of Authorized Official, signature(s) and seals/stamps].*

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

<sup>1</sup>The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency of the Contract or a freely convertible currency acceptable to the Beneficiary.

<sup>2</sup>Insert the date twenty-eight days after the expected completion date as described in GC Clause 11.9. The Procuring Entity should note that in the event of an extension of this date for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

**FORM No. 5 - PERFORMANCE SECURITY**

**[Option 2– Performance Bond]**

*[Note: Procuring Entities are advised to use Performance Security – Unconditional Demand Bank Guarantee instead of Performance Bond due to difficulties involved in calling Bond holder to action]*

*[Guarantor letterhead or SWIFT identifier code]*

**Beneficiary:** \_\_\_\_\_ *[insert name and Address of Procuring Entity]* **Date:** \_\_\_\_\_  
\_\_\_\_\_ *[Insert date of issue].*

**PERFORMANCE BOND No.:** \_\_\_\_\_

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

1. By this Bond \_\_\_\_\_ as Principal (hereinafter called “the Contractor”) and \_\_\_\_\_] as Surety (hereinafter called “the Surety”), are held and firmly bound unto \_\_\_\_\_] as Obligee (hereinafter called “the Procuring Entity”) in the amount of \_\_\_\_\_ for the payment of which sum well and truly to be made in the types and proportions of currencies in which the Contract Price is payable, the Contractor and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.
2. WHEREAS the Contractor has entered into a written Agreement with the Procuring Entity dated the \_\_\_\_\_ day of \_\_\_\_\_, 20, for \_\_\_\_\_ in accordance with the documents, plans, specifications, and amendments thereto, which to the extent herein provided for, are by reference made part hereof and are hereinafter referred to as the Contract.
3. NOW, THEREFORE, the Condition of this Obligation is such that, if the Contractor shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise, it shall remain in full force and effect. Whenever the Contractor shall be, and declared by the Procuring Entity to be, in default under the Contract, the Procuring Entity having performed the Procuring Entity's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:
  - 1) complete the Contract in accordance with its terms and conditions; or
  - 2) obtain a tender or tenders from qualified tenderers for submission to the Procuring Entity for completing the Contract in accordance with its terms and conditions, and upon determination by the Procuring Entity and the Surety of the lowest responsive Tenderers, arrange for a Contract between such Tenderer, and Procuring Entity and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term “Balance of the Contract Price,” as used in this paragraph, shall mean the total amount payable by Procuring Entity to Contractor under the Contract, less the amount properly paid by Procuring Entity to Contractor; or
  - 3) pay the Procuring Entity the amount required by Procuring Entity to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.
4. The Surety shall not be liable for a greater sum than the specified penalty of this Bond.
5. Any suit under this Bond must be instituted before the expiration of one year from the date of the issuing of the Taking-Over Certificate. No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Procuring Entity named herein or the heirs, executors, administrators, successors, and assigns of the Procuring Entity.
6. In testimony whereof, the Contractor has hereunto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly attested by the signature of his legal representative, this day \_\_\_\_\_ of \_\_\_\_\_ 20\_\_\_\_\_.

SIGNED ON \_\_\_\_\_ on behalf of By \_\_\_ in the capacity of In the presence of

SIGNED ON \_\_\_\_\_ on behalf of By \_\_\_ in the capacity of In the presence of

**FORM NO. 6 - ADVANCE PAYMENT SECURITY**

**[Demand Bank Guarantee]**

*[Guarantor letterhead]*

**Beneficiary:** \_\_\_\_\_ *[Insert name and Address of Procuring Entity]*

**Date:** \_\_\_\_\_ *[Insert date of issue]*

**ADVANCE PAYMENT GUARANTEE No.:** \_\_\_\_\_ *[Insert guarantee reference number]* **Guarantor:** \_\_\_\_\_

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

1. We have been informed that \_\_\_\_\_ (hereinafter called "the Contractor") has entered into Contract No. \_\_\_\_\_ dated \_\_\_\_\_ with the Beneficiary, for the execution of \_\_\_\_\_ (hereinafter called "the Contract").
2. Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum \_\_\_\_\_ (in words) is to be made against an advance payment guarantee.
3. At the request of the Contractor, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of \_\_\_\_\_ (in words \_\_\_\_\_)<sup>1</sup> 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 the costs of mobilization in respect of the Works; 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.
4. 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 Contractor on its account number \_\_\_\_\_ at \_\_\_\_\_.
5. The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor 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, less provisional sums, has been certified for payment, or on the \_\_\_\_ day of \_\_\_\_\_, 2<sup>2</sup>, whichever is earlier. Consequently, demand for payment under this guarantee must be received by us at this office on or before that date.
6. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months]* *[one year]*, in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

*[Name of Authorized Official, signature(s) and seals/stamps]*

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

<sup>1</sup>The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency of the advance payment as specified in the Contract.

<sup>2</sup>Insert the expected expiration date of the Time for Completion. The Procuring Entity should note that in the event of an extension of the time for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.



**FORM NO. 7 - RETENTION MONEY SECURITY**

**[Demand Bank Guarantee]**

*[Guarantor letterhead]*

**Beneficiary:** \_\_\_\_\_ *[Insert name and Address of Procuring Entity]*

**Date:** \_\_\_\_\_ *[Insert date of issue]*

**Advance payment guarantee no.** *[Insert guarantee reference number]*

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

1. We have been informed that \_\_\_\_\_ *[insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Contractor") has entered into Contract No. \_\_\_\_\_ *[insert reference number of the contract]* dated \_\_\_\_\_ with the Beneficiary, for the execution of \_\_\_\_\_ *[insert name of contract and brief description of Works]* (hereinafter called "the Contract").
2. Furthermore, we understand that, according to the conditions of the Contract, the Beneficiary retains moneys up to the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, and payment of *[insert the second half of the Retention Money]* is to be made against a Retention Money guarantee.
3. At the request of the Contractor, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* \_\_\_\_\_ *([insert amount in words \_\_\_\_\_])*<sup>1</sup> 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 that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or show grounds for your demand or the sum specified therein.
4. 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 second half of the Retention Money as referred to above has been credited to the Contractor on its account number \_\_\_\_\_ at \_\_\_\_\_ *[insert name and address of Applicant's bank]*.
5. This guarantee shall expire no later than the ..... Day of ....., 2.....<sup>2</sup>, and any demand for payment under it must be received by us at the office indicated above on or before that date.
6. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months]* *[one year]*, in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.

*[Name of Authorized Official, signature(s) and seals/stamps]*

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

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<sup>1</sup>The Guarantor shall insert an amount representing the amount of the second half of the Retention Money.  
<sup>2</sup>Insert a date that is twenty-eight days after the expiry of retention period after the actual completion date of the contract. The Procuring Entity should note that in the event of an extension of this date for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee