

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR LANDS AND PHYSICAL PLANNING

PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I. W.P. ITEM NO: BD 1112 EN/KIT/2201 - JOB NO. 11075A

> TENDER NO: SDLPP/OT/015/2024/2025 IFMIS TENDER NO: 1848459-2024/2025

TENDER DOCUMENT

PROJECT MANAGER

Works Secretary, State Department for Public Works, P.O. Box 30743-00100, NAIROBI.

<u>N</u>

<u>ARCHITECT</u>

Chief Architect, State Department for Public Works, P.O. Box 30743-00100, NAIROBI.

ELECTRICAL ENGINEER

Chief Engineer (Electrical-BS) State Department for Public Works, P.O. Box 30743-00100, NAIROBI.

STRUCTURAL ENGINEER

Chief Engineer (Structural), State Department for Public Works, P.O. Box 30743-00100, NAIROBI.

QUANTITY SURVEYOR

Chief Quantity Surveyor, State Department for Public Works, P.O. Box 30743-00100, NAIROBI.

MECHANICAL ENGINEER

Chief Engineer (Mechanical-BS) State Department for Public Works, P.O. Box 30743-00100, NAIROBI.

INTERIOR DESIGNER

Chief Designer, State Department for Public Works, P.O. Box 30743-00100, NAIROBI.

APRIL, 2025

PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I.

W.P. ITEM NO: BD 1112 EN/KIT/2201 - JOB NO. 11075A

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REPUBLIC OF KENYA



PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I.

Supplied as part of the Contract No. **BD 1112 EN/KIT/2201 - JOB NO. 11075A** for the **PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI** COUNTY - PHASE I.

Prepared by: -Chief Quantity Surveyor, State Department for Public Works, P.O. Box 30743-00100, NAIROBI.

The contract for the above-mentioned works is entered into this day of 20...... by the undersigned refers to this contract and the Ministry of Lands, Public Works, Housing and Urban Development General Specification dated March, 1976 (together with any amendments issued thereto) shall be read and construed as part of the said contract.

The Contractor

Principal Secretary,

State Department for Lands and Physical Planning.

Date :

Date :

SIGNATURE PAGE

SPECIAL NOTES

- i) The Tenderer is required to check the numbers of the pages in this document and should he/she find any missing or in duplicate or words indistinct he must inform the Principal Secretary, State Department for Public Works, P.O Box 30743-00100, Nairobi at once and have the same rectified.
- ii) Should the Tenderer be in doubt about the precise meaning of any item for any reason whatsoever, he/she must inform the Principal Secretary in order that the correct meaning may be decided before the date for submission of tenders.
- iii) No liability will be admitted nor claim allowed in respect of errors in the Tenderer's Tender due to mistakes in this document which should have been rectified in the manner described above.
- iv) The Tenderer shall not alter or otherwise qualify the text of this Tender Document. Any alteration or qualification made without any authority will be ignored and the text printed will be adhered to.

SPECIAL NOTES PAGE

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PROCURING ENTITY

PROCURING ENTITY: PRINCIPAL SECRETARY, STATE DEPARTMENT FOR LANDS AND PHYSICAL PLANNING, P.O.BOX 30450-00100, NAIROBI.

NAME OF TENDER: PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I.

IDENTIFICATION OF TENDER: SDLPP/OT/015/2024/2025

TENDER DOCUMENTS FOR PROCUREMENT OF WORKS (BUILDING AND ASSOCIATED CIVIL ENGINEERING WORKS)

- 1) NAME AND CONTACT ADDRESSES OF PROCURING ENTITY NAME: STATE DEPARTMENT FOR LANDS AND PHYSICAL PLANNING ADDRESS: P.O. BOX 30450-00100, NAIROBI. EMAIL ADDRESS: info@lands.go.ke
- 2) Invitation to Tender (ITT) No. (IFMIS No.): 1848459-2024/2025

3) Tender Name: PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I.

INVITATION TO TENDER

PROCURING ENTITY:

PRINCIPAL SECRETARY

STATE DEPARTMENT FOR LANDS AND PHYSICAL PLANNING

P.O.BOX 30450-00100,

NAIROBI.

CONTRACT NAME AND DESCRIPTION: PROPOSED CONSTRUCTION OF ARDHI HOUSE AT

MUTOMO, KITUI COUNTY - PHASE I.

- 1. The STATE DEPARTMENT FOR LANDS AND PHYSICAL PLANNING, invites sealed tenders for the PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY PHASE I.
- 2. Tendering will be conducted under open national tendering method using a standardized tender document. Tendering is open to qualified and interested tenderers.
- 3. Qualified and interested tenderers registered by the National Construction Authority in category NCA 1-4 and may obtain further information and inspect the Tender Documents during office hours 0800 to 1700 hours at the address given below.
- 4. A complete set of tender documents may be purchased or obtained by interested tenders upon payment of a nonrefundable fees of <u>Kenya Shillings 1,000.00</u> in cash or Banker's Cheque and payable to the address given below.
- 5. Tender documents may be viewed and downloaded for free from the website **www.lands.go.ke** or **www.supplier.treasury.go.ke**. Tenderers who download the tender document must forward their particulars immediately to **procurement@ardhi.go.ke** to facilitate any further clarification or addendum.
- 6. Tenders shall be quoted in Kenya Shillings and shall include all taxes. Tenders shall remain valid for **126** days from the date of opening of tenders.
- 7. All Tenders must be accompanied by a Tender Security of Kshs. 2,600,000.00 (Two Million Six Hundred Thousand Only) Guarantee from a Bank or an Insurance Company approved by the Public Procurement Authority (PPRA)
- 8. The Tenderer shall chronologically serialize all pages of the tender documents submitted.
- 9. Completed tender documents to be submitted through the <u>IFMIS SUPPLIER PORTAL:</u> <u>www.supplier.treasury.go.ke</u> .Kindly note:The original copy of the form of tender,Price Schedules,Tender security and authorization to sign the tender in the form of Power of attonery to be submitted in Hard copy in the tender box located at the entance of 12th floor Ardhi House Nairobi, 1st Ngong Avenue.
- 10. Tenders will be opened immediately through the IFMIS system after the deadline date and time specified above or any dead line date and time specified later. Tenders will also be publicly opened in the presence of the Tenderers' designated representatives who choose to attend at the address below.
- 11. Late tenders will be rejected.
- 12. The addresses referred to above are:

A. Address for obtaining further information, purchasing tender documents and for hand courier delivery to an office or Tender Box on the entrance of 12th Floor Ardhi House Nairobi addressed to
 Principal Secretary
 State Department for Lands and Physical Planning

P.O BOX 30450-00100

Nairobi- Kenya.

B. Address for Submission of Tenders: Tender are to submitted electronically through the IFMIS system as provided and submission of original form of tender, power of attornery, price schedules and tender security to a tender box located at *the entance of 12 floor Ardhi House Nairobi, 1st Ngong Avenue*.

Principal Secretary

State Department for Lands and Physical Planning

P.O BOX 30450-00100

Nairobi- Kenya.

C. Address for Opening of Tenders.

State Department for Lands and Physical Planning, 12 Floor Wing B Boadroom

P.O BOX 30450-00100

Nairobi- Kenya.

Head Supply Chain Management Services

FOR: PRINCIPAL SECRETARY

PART1: TENDERING PROCEDURES

SECTION I - INSTRUCTIONS TO TENDERERS

A <u>GENERAL PROVISIONS</u>

1.0 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.
- **1.2** Throughout this tendering document:
 - a) The term "in writing" means communicated in written form (e.g. by mail, e-mail, fax, including if specified in the TDS, distributed or received through the electronic-procurement system used by the Procuring Entity) with proof of receipt;
 - b) if the context so requires, "singular" means "plural" and vice versa;
 - c) "Day" means calendar day, unless otherwise specified as "Business Day". A Business Day is any day that is an official working day of the Procuring Entity. It excludes official public holidays.

2.0 Fraud and corruption

- 21 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.
- 22 The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding <u>collusive</u> <u>practices</u> 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.
- 23 Tenderers shall permit and shall cause their agents (whether declared or not), subcontractors, sub-consultants, service providers, suppliers, and their personnel, to permit the Procuring Entity to inspect all accounts, records and other documents relating to any initial selection process, pre-qualification process, tender submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Procuring Entity.
- 24 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 in formation that would in that respect give such firm any unfair competitive advantage over competing firms.

3.0 Eligible tenderers

- **3.1** A Tenderer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITT 3.8, or an individual or any combination of such entities in the form of a joint venture (JV) under an existing agree mentor with the intent to enter in to such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the 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. Members of a joint venture may not also make an individual tender, be a subcontractor in a separate tender or be part of another joint venture for the purposes of the same Tender. The maximum number of JV members shall be specified in the **TDS**.
- **32** 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.
- **33** 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;
- b) Receives or has received any director indirect subsidy from another tenderer;
- c) Has the same legal representative as another tenderer;
- 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;
- e) Any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods or works that are the subject of the tender;
- f) Any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as a consultant for Contract implementation;
- 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;
- h) Has a close business or personal relationship with senior management or professional staff of the Procuring Entity who has the ability to influence the bidding process and:
 - 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) May be involved in the implementation or supervision of such Contract unless the conflicts temming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.
- 34 A tenderer shall not be involved in corrupt, coercive, obstructive or fraudulent practice. A tenderer that is proven to have been involved in any of these practices shall be automatically disqualified
- **35** 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. Members of a joint venture may not also make an individual tender, be a sub-contractor in a separate tender or be part of another joint venture for the purposes of the same Tender. A firm that is not a tenderer or a JV member may participate as a subcontractor in more than one tender.
- **3.6** A Tenderer may have the nationality of any country, subject to the restrictions pursuant to ITT3.9. ATenderer 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 sub-contractors or sub-consultants for any part of the Contract including related Services.
- **3.7** A Tenderer that has been debarred from participating in public procurement shall be ineligible to tender or be awarded a contract. The list of debarred firms and individuals is available from the website of PPRA www.ppra.go.ke.
- **38** A Tenderer that is a state-owned enterprise or a public institution in Kenya may be eligible to tender and be awarded Contract(s) only if it is determined by the Procuring Entity to meet the following conditions, i.e. if it is:
 - i) A legal public entity of 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 enterprisetoenableitcompetewithfirmsintheprivatesectoronanequalbasis.
- **39** Firms and individuals shall be ineligible if their countries of origin are:
 - (a) As a matter of law or official regulations, Kenya prohibits commercial relations with that country;
 - (b) By an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of theCharterof 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, local sub-contracts and labor) from citizen 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 for this purpose in *"SECTIONI II EVALUATION AND QUALIFICATION CRITERIA, Item 9"*.
- **3.11** Pursuant to the eligibility requirements of ITT 3.10, a tender is considered a foreign tenderer, If it is registered in Kenya and has less than 51 percent ownership by nationals of Kenya and if it does not subcontract to foreign firms or individuals more than 10 percent of the contract price, excluding provisional sums. JVs are considered as foreign tenderers if the individual member firms registered in Kenya have less 51 percent ownership by nationals of Kenya. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.
- **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 <u>www.nca.go.ke</u>.
- **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.
- **3.14** A kenyan tenderer shall be eligible to tender if it provides evidence of having fulfilled his/her tax obligations by producing valid tax compliance certificate or tax exemption certificate issued by the Kenya Revenue Authority.

4.0 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 ineligible 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.
- 42 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.

5.0 Tenderer's responsibilities

- 51 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.
- 52 The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine and inspect 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 beat the tenderer's own expense.
- **53** 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 again stall 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 examination and inspection.
- 54 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. <u>CONTENTS OF TENDER DOCUMENTS</u>

60 Sections of Tender Document

61 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 10.

PART 1: Tendering Procedures

Section I – Instructions toTenderers Section II – Tender Data Sheet (TDS) Section III- Evaluation and Qualification Criteria Section IV – Tendering Forms

PART 2: Works' Requirements

Section V - Bills of Quantities Section VI - Specifications Section VII - Drawings

PART 3: Conditions of Contract and Contract Forms Section VIII - General Conditions (GCC) Section IX - Special Conditions of Contract Section X- Contract Forms

- 62 The Invitation to Tender Notice issued by the Procuring Entity is not part of the Contract documents. 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 a pre-arranged site visit and those of the pre-Tender meeting (if any), or Addenda to the Tender document in accordance with ITT 10. Incase of any contradiction, documents obtained directly from the Procuring Entity shall prevail.
- 63 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.

7.0 Clarification of Tender Document, Site Visit, Pre-tender Meeting

- 7.1 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 if provided for in accordance with ITT 7.2. 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 7.4, including a description of the inquiry but without identifying its source. If so specified in the **TDS**, the Procuring Entity shall also promptly publish its response at the web page identified in the **TDS**. Should the clarification result in changes to the essential elements of the Tender Documents, the Procuring Entity shall amend the Tender Documents following the procedure under ITT 8 and ITT 22.2.
- 72 The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine and inspect the site(s) of the required contracts and obtain all information that may be necessary for preparing a tender. The costs of visiting the Site shall be at the Tenderer's own expense. The Procuring Entity shall specify in the **TDS** if a pre-arranged Site visit and or a pre-tender meeting will be held, when and where. The Tenderer's designated representative is invited to attend a pre-arranged site visit and a pre-tender meeting, as the case may be. The purpose of the site visit and the pre-tender meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 73 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.
- 7.4 Minutes of a pre-arranged site visit and those of the pre-tender meeting, 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. Minutes shall not identify the source of the questions asked.
- 75 TheProcuring Entity shall also promptly publish anonymized (*no names*) Minutes of the pre-arranged site visit

and those of the pre-tender meeting at the web page identified in the **TDS**. Any modification to the Tender Documents that may become necessary as a result of the pre-arranged site visit and those of the pre-tender meeting 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. Non-attendance at the pre-arranged site visit and the pre-tender meeting will not be a cause for disqualification of a Tenderer.

80 Amendment of Tender Documents

- **81** At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the Tender Documents by issuing addenda.
- **82** Any addendum issued shall be part of the Tender Documents and shall be communicated in writing to all who have obtained the Tender Documents from the Procuring Entity. The Procuring Entity shall also promptly publish the addendum on the Procuring Entity's website in accordance with ITT 7.5.
- 83 To give Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Procuring Entity should extend the dead line for the submission of Tenders, pursuant to ITT 22.2.

C. PREPARATION OF TENDERS

9. Cost of Tendering

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.

10.0 Language of Tender

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.

11.0 Documents Comprising the Tender

- **11.1** The Tender shall comprise the following:
 - a) Form of Tender prepared in accordance with ITT 12;
 - b) Schedules including priced Bill of Quantities, completed in accordance with ITT 12 and ITT 14;
 - c) Tender Security or Tender-Securing Declaration, in accordance with ITT 19.1;
 - d) Alternative Tender, if permissible, in accordance with ITT 13;
 - e) *Authorization*: written confirmation authorizing the signatory of the Tender to commit the Tenderer, in accordance with ITT20.3;
 - f) *Qualifications:* documentary evidence in accordance with ITT 17 establishing the Tenderer's qualifications to per form the Contract if its Tender is accepted;
 - g) *Conformity:* a technical proposal in accordance with ITT 16;
 - h) Any other document required in the **TDS**.
- 112 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 JV Agreement. Change of membership and conditions of the JV prior to contract signature will render the tenderliable for disqualification.

12.0 Form of Tender and Schedules

- 12.1 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 with out 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. The Tenderer shall chronologically serialize all pages of the tender documents submitted.
- 12.2 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.

13. Alternative Tenders

- 13.1 Unless otherwise specified in the TDS, alternative Tenders shall not be considered.
- 132 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.
- 133 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.
- 13.4 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.

14.0 Tender Prices and Discounts

- 14.1 The prices and discounts (including any price reduction) quoted by the Tenderer in the Form of Tender and in the Billof Quantities shall conform to the requirements specified below.
- 142 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.
- 143 The price to be quoted in the Form of Tender, in accordance with ITT 12.1, shall be the total price of the Tender, including any discounts offered.
- 14.4 The Tenderer shall quote any discounts and the methodology for their application in the Form of Tender, in accordance with ITT 12.1.
- 145 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 incases 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.
- 146 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 14.4, provided the Tenders for all lots (contracts) are opened at the sametime.

14.7 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.

15.0 Currencies of Tender and Payment

- 15.1 The currency(ies) of the Tender and the currency(ies) of payments shall be the same.
- **152** 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) A Tenderer expecting to incur expenditures in other currencies for inputs to the Works supplied from outside Kenya (referred to as "the foreign currency requirements") shall (if so, allowed in the **TDS**) indicate in the Appendix to Tender the percentage(s) of the Tender Price (excluding Provisional Sums), needed by the Tenderer for the payment of such foreign currency requirements, limited to no more than two foreign currencies.
 - b) The rates of exchange to be used by the Tenderer in arriving at the local currency equivalent and the percentage(s) mentioned in (a) above shall be specified by the Tenderer in the Appendix to Tender and shall be based on the exchange rate provided by the Central Bank of Kenya on the date 30 days prior to the actual date of tender opening. Such exchange rate shall apply for all foreign payments under the Contract.
- **153** Tenderers may be required by the Procuring Entity to justify, to the Procuring Entity's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the unit rates and prices and shown in the Schedule of Adjustment Data in the Appendix to Tender are reasonable, in which case a detailed break down of the foreign currency requirements shall be provided by Tenderers.

16.0 Documents Comprising the Technical Proposal

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, insufficient detail to demonstrate the adequacy of the Tenderer's proposal to meet the work's requirements and the completion time.

17.0 Documents Establishing the Eligibility and Qualifications of the Tenderer

- **17.1** Tenderers shall complete the Form of Tender, included in Section IV, Tender Forms, to establish Tenderer's eligibility in accordance with ITT 4.
- **172** 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.
- **173** If a margin of preference applies as specified in accordance with ITT 33.1, nation al tenderers, individually or in joint ventures, applying for eligibility for national preference shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITT 33.1.
- 17.4 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, <u>a particular contractor or group of contractors qualifies</u> 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.
- 175 The purpose of the information described in ITT 17.4 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.
- 17.6 The Tenderer shall provide further documentary proof, information or authorizations that

the Procuring Entity may request in relation to owner ship and control which in formation on any changes to the information which was provided by the tenderer under ITT 6.4. The obligations to require this information shall continue for the duration of the procurement process and contract performance and after completion of the contract, if any change to the information previously provided may reveal a conflict of interest in relation to the award or management of the contract.

- 17.7 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.
- 178 If a tenderer fails to submit the information required by these requirements, its tender will be rejected. Similarly, iftheProcuring 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.
- 179 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 bed is qualified from the procurement process,
 - ii) if the contract has been awarded to that tenderer, the contract award will be set as idepending the outcome of (iii),
 - iii) the tenderer will be referred to the relevant law enforcement authorities for investigation of whether the tenderer or any other person shave committed any criminal offence.
- **17.10** If a tenderer submits information pursuant to these requirements that is in complete, in accurate or out-of-date, or attempts to obstruct the verification process, then the consequences ITT 17.8 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 tender.

18.0 Period of Validity of Tenders

- 18.1. 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 22). At ender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.
- 18.2 In exceptional circumstances, prior to the expiration of the Tender validity period, the Procuring Entity mav requestTendererstoextendtheperiodofvalidityoftheirTenders.Therequestandtheresponses shallbemadein writing. If a Tender Security is requested in accordance with ITT 19, it shall also be extended for thirty (30) days beyond the deadline of the extended validity period. Tenderer may refuse the request without forfeiting Α its Tendersecurity.ATenderergrantingtherequestshallnotberequiredorpermittedtomodifyitsT ender.

19.0 Tender Security

- **19.1** 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.
- **192** 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:

- I) cash;
- ii) a bank guarantee;
- iii) a guarantee by an insurance company registered and licensed by the Insurance Regulatory Authority listed by the Authority;
- (iv) a guarantee issued by a financial institution approved and licensed by the Central Bank of Kenya, from a reputable source, and an eligible country.
- **193** 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 18.2.
- **19.4** 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.
- 195 If a Tender Security is specified pursuant to ITT 19.1, 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 non-responsive or a bidder declines to extend tender validity period.
- **19.6** 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.
- 19.7 The Tender Security may be forfeited or the Tender-Securing Declaration executed:
 - a) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer on the Form of Tender, or any extension there to provided by the Tenderer; or
 - b) if the successful Tenderer fails to:
 - i) signthe Contract in accordance with ITT47; or
 - ii) furnish a Performance Security and if required in the TDS, and any other documents required in the TDS.
- **198** Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA to debars the Tenderer from participating in public procurement as provided in the law.
- **199** 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.
- **19.10** A tenderer shall not issue a tender security to guarantee itself.

20.0 Format and Signing of Tender

- **20.1** The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 11 and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 13, shall be clearly marked "ALTERNATIVE." In addition, the Tenderer shall submit copies of the Tender, in the number specified in the **TDS** and clearly mark them "COPY." In the event of any discrepancy between the origin a landthe copies, the original shall prevail.
- **20.2** 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.
- 203 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.

- **20.4** Incase the Tenderer is a JV, the Tender shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- **205** 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

21.0 Sealing and Marking of Tenders

- **21.1** 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 a nenvelope or package or container marked "COPIES", all required copies of the Tender; and
 - c) if alternative Tenders are permitted in accordance with ITT 13, and if relevant:
 - i) in an envelope 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.
- **212** 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 misplaced or opened prematurely will not be accepted.

22.0 Deadline for Submission of Tenders

- 22.1 Tenders must be received by the Procuring Entity at the address specified in the TDS and no later than the date and timeals ospecified 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.
- **222** The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the TenderDocumentsinaccordance with ITT 8, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline shall there after be subject to the deadline as extended.

23.0 Late Tenders

The Procuring Entity shall not consider any Tender that arrives after the deadline for submission f tenders, in accordance with ITT 22. 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.

24.0 Withdrawal, Substitution, and Modification of Tenders

- **24.1** A Tenderer may withdraw, substitute, or modify its Tenderafterith as 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 20.3, (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 20 and ITT 21 (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 22.
- **24.2** Tenders requested to be withdrawn in accordance with ITT 24.1 shall be returned unopened to the Tenderers.
- 243 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.

25. Tender Opening

- **25.1** Except in the cases specified in ITT 23 and ITT 24.2, 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 22.1, shall be as specified in the **TDS**.
- 252 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.
- 253 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.
- 254 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 authorizationtorequestthemodificationandisreadoutatTenderopening.
- 255 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.
- 256 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 Bill of Quantities (to be decided on by the tender opening committee) are to be initialed by the members of the tender opening committee attending the opening.
- 25.7 At the Tender Opening, the Procuring Entitys hall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 23.1).
- 258 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 new as required;
- e) number of pages of each tender document submitted.
- 259 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.

E. EVALUATION AND COMPARISON OF TENDERS

26. Confidentiality

- 26.1 Information relating to the evaluation of Tenders and recommendation of contract award shall not be disclosed to Tenderersorany 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 43.
- 262 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.
- 263 Not withstanding ITT 26.2, 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.

27.0 Clarification of Tenders

- **27.1** 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 aresponse. Any clarification submitted by a tenderer that is not in response to a request by the Procuring Entity shallnot 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 31.
- 272 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.

28.0 Deviations, Reservations, and Omissions

- 28.1 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.

29.0 Determination of Responsiveness

- **29.1** The Procuring Entity's determination of a Tender's responsiveness is to be based on the contents of the tender itself, as defined in ITT 11.
- **29.2** A substantially responsive Tender is one that meets the requirements of the Tender document without aterial deviation, reservation, or omission. A material deviation, reservation, or omission is one that, if accepted, would:
 - a) Affec tin any substantial way the scope, quality, or performance of the Works specified in the Contract;
 - 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;

- c) if rectified, would unfairly affect the competitive position of other tenderers presenting substantially responsivetenders.
- **293** The Procuring Entity shall examine the technical aspects of the tender submitted in accordance with ITT 16, to confirm that all requirements of Section VII, Works' Requirements have been met without any material deviation, reservation or omission.
- **29.4** 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.

30.0 Non-material Non-conformities

- **30.1** Provided that a tender is substantially responsive, the Procuring Entity may waive any non-conformities in the tender.
- **30.2** Provided that a Tender is substantially responsive, the Procuring Entity may request that the tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify non-material 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.
- **30.3** Provided that a tender is substantially responsive, the Procuring Entity shall rectify quantifiable non-material 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**.

31.0 Arithmetical Errors

- **31.1** 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.
- **312** Provided that the Tender is substantially responsive, the Procuring Entity shall handle errors on the following basis:
 - a) Any error detected if considered a major deviation that affects the substance of the tender, shall lead to disqualification of the tender as non-responsive.
 - b) Any errors in the submitted tender arising from a miscalculation of unit price, quantity, subtotal and total bidpriceshallbe 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
- **313** Tenderers shall be notified of any error detected in their bid during the notification of award.

32.0 Conversion to Single Currency

For evaluation and comparison purposes, the currency(ies) of the Tender shall be converted in to a single currency asspecified in the **TDS**.

33.0 Margin of Preference and Reservations

- **33.1** A margin of preference may be allowed only when the contract is open to international competitive tendering where foreign contractors are expected to participate in the tendering process and where the contract exceeds the value/threshold specified in the Regulations.
- 332 A margin of preference shall not be allowed unless it is specified so in the TDS.
- **333** Contracts procured on basis of international competitive tendering shall not be subject to reservations exclusive to specific groups as provided in ITT 33.4.

33.4 Where it is intended to reserve a contract to as pecific group of businesses (these groups are Small and Medium Enterprises, Women Enterprises, Youth Enterprises and Enterprises of persons living with disability, as the case may be), and who are appropriately registered as such by the authority to be specified in the **TDS**, a procuring entity shall ensure that the invitation to tender specifically indicates that only businesses or firms belonging to the specified group are eligible to tender. No tender shall be reserved to more than one group. If not so stated in the Invitation to Tender and in the Tender documents, the invitation to tender will be open to all interested tenderers.

34.0 Nominated Subcontractors

- **34.1** Unless otherwise stated in the **TDS**, the Procuring Entity does not intend to execute any specific elements of the Works by subcontractors selected/nominated by the Procuring Entity. Incase the ProcuringEntity nominates a subcontractor, the subcontract agreement shall be signed by the Subcontractor and the Procuring Entity. The main contract shall specify the working arrangements between the main contractor and the nominated subcontractor.
- **34.2** Tenderers may propose sub-contracting 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.
- **343** Domestic 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 so by the Procuring Entity in the **TDS** a scan be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractorsproposed by the Tenderer may be added to the qualifications of the Tenderer.

35. Evaluation of Tenders

- 35.1 TheProcuring 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 theLowest Evaluated Tender in accordance with ITT 40.
- 352 To evaluate a Tender, the Procuring Entity shall consider the following:
 - a) priceadjustment in accordance with ITT 31.1 (iii); excluding provisional sums and contingencies, if any, but including Daywork items, where priced competitively;
 - b) price adjustment due to discounts offered in accordance with ITT 14.4;
 - c) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITT 32;
 - d) pricea djustment due to quantifiable non materialnon-conformities in accordance with ITT 30.3; and
 - e) any additional evaluation factors specified in the **TDS** and Section III, Evaluation and Qualification Criteria.
- 353 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.
- 35.4 Where the tender involves multiple lots or contracts, the tenderer will be allowed to tender for one or more lots (contracts). Each lot or contract will be evaluated in accordance with ITT 35.2. The methodology to determine the lowest evaluated tenderer or tenderers base done lot (contract) or based on a combination of lots (contracts), will be specified in Section III, Evaluation and Qualification Criteria. In the case of multiple lots or contracts, tenderer will be will be required to prepare the Eligibility and Qualification Criteria Form for each Lot.

36.0 Comparison of tenders

The Procuring Entity shall compare the evaluated costs of all substantially responsive

Tenders established in accordance with ITT 35.2 to determine the Tender that has the lowest evaluated cost.

37.0 Abnormally low tenders and abnormally high tenders

Abnormally LowTenders

- **37.1** 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.
- **372** 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 otherrequirements of the Tender document.
- **373** After evaluation of the price analyses, in the event that the Procuring Entity determines that the Tenderer has failed to demonstrate its capability to perform the Contract for the offered Tender Price, the Procuring Entity shall reject the Tender.

Abnormally high tenders

- **37.4** Anabnormally high tender price is one where the tender price, in combination with other constituent elements of the Tender, appears unreasonably too high to the extent that the Procuring Entity is concerned that it (the Procuring Entity) may not be getting value for money or it may be paying too high a price for the contract compared with market prices or that genuine competition between Tenderers is compromised.
- **375** Incase of a nab normally high price, the Procuring Entity shall make a survey of the market prices, check if the estimated cost of the contract is correct and review the Tender Documents to check if the specifications, scope of work and conditions of contract are contributory to the abnormally high tenders. The Procuring Entity may also seek written clarification from the tenderer on the reason for the high tender price. The Procuring Entity shall proceed as follows:
 - i) If the tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entity may accept or not a ccept 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.
- **37.6** If the Procuring Entity determines that the Tender Price is abnormally too high because genuine competition between tenderers is compromised (*often due to collusion, corruption or other manipulations*), the Procuring Entity shall reject all Tenders and shall institute or cause competent Government Agencies to institute an investigation on the cause of the compromise, before retendering.

38.0 Unbalanced and/ or front-loaded tenders

- **38.1** If in the Procuring Entity's opinion, the Tender that is evaluated as the lowest evaluated price is seriously unbalanced and/or frontloaded, 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.
- **382** After the evaluation of the information and detailed price analyses presented by the Tenderer, the Procuring Entity may as appropriate:
 - a) accept the Tender;
 - 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;

- c) agree on a payment mode that eliminates the inherent risk of the Procuring Entity paying too much for undelivered works;
- d) reject the Tender,

39.0 Qualifications of the tenderer

- **39.1** 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.
- **39.2** The determination shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 17. 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 Sub-contractors if permitted in the Tender document), or any other firm(s) different from the Tenderer.
- **393** 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 ProcuringEntityshallproceed 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.

40.0 Lowest evaluated tender

Having compared the evaluated prices of Tenders, the Procuring Entity shall determine the Lowest Evaluated Tender. The Lowest 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.

41.0 Procuring entity's right to accept any tender, and to reject any or all tenders.

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 there by incurring any liability to Tenderers. Incase of annulment, all Tenders submitted and specifically, Tender securities, shall be promptly returned to the Tenderers.

F. AWARD OF CONTRACT

42.0 Award criteria

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

430 Notice of Intention to Enter into a Contract/Notification of Award

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) instruction son how to request a debriefing and/ or submit a complaint during the stand still period;

44.0 Stand still Period

- **44.1** 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.
- **44.2** 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.

45.0 Debriefing by The Procuring Entity

- **45.1** On receipt of the Procuring Entity's Notification of Intention to Enter into a Contract referred to in ITT 43, an unsuccessful tenderer may make a written request to the Procuring Entity for a debriefing on specific issues or concerns regarding their tender. The Procuring Entity shall provide the debriefing within five days of receipt of the request.
- **452** Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its own costs of attending such a debriefing meeting.

46.0 Letter of Award

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 with in 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.

47.0 Signing of Contract

- **47.1** Upon the expiry of the fourteen days of the Notification of Intention to enter in to contract and upon the parties meeting their respective statutory requirements, the Procuring Entity shall send the successful Tenderer the Contract Agreement.
- **472** Within fourteen (14) days of receipt of the Contract Agreement, the successful Tenderer shall sign, date, and returnittotheProcuringEntity.
- **473** The written contract shall be entered into within the period specified in the notification of award and before expiry of the tender validity period.

48.0 Performance Security

- **48.1** Within twenty-one (21) days of the receipt of the Letter of Award 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 38.2 (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.
- **482** Failure of the successful Tenderer to submit the above-mentioned Performance Security and otherdocuments 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.
- **483** Performance security shall not be required for contracts estimated to cost less than the amount specified in the Regulations.

49.0 Publication of Procurement Contract

Within fourteen days after signing the contract, the Procuring Entity shall publish the

awarded contract at its notice boards and websites; and on the Website of the Authority. At the minimum, the notice shall contain the following information:

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

50.0 Procurement related Complaints and Administrative Review

- 50.1 The procedures for making Procurement-related Complaints are as specified in the **TDS.**
- 50.2 A request for administrative review shall be made in the form provided under contract forms.

Section II - Ten	der 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.					
Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERERS					
A. General						
ITT 1.1	The name of the contract is PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I. The reference number of the Contract is BD 1112 EN/KIT/2201 - JOB NO. 11075 A The number and identification of lots (contracts) comprising this Tender is ONE only consisting of Builder's, Electrical, and Mechanical Works.					
ITT 2.3	The Information made available on competing firms is as follows:					
	1. Instructions to tenderers 2. Bills of quantities 3. Conditions of contract (PPRA 2022) 4. Drawings					
ITT 2.4	The firm(s) that provided consulting services for the contract being tendered is: STATE DEPARTMENT FOR PUBLIC WORKS P. O. BOX 30743-00100, NAIROBI. The firm consists of the following consultants: Project Manager: Works Secretary. Project Architect: Chief Architect. Project Quantity Surveyor: Chief Quantity Surveyor. Project Mechanical Engineer: Chief Engineer Mechanical, (BS). Project Electrical Engineer: Chief Engineer Electrical, (BS). Project Electrical Engineer: Chief Engineer Electrical, (BS).					
	Project Structural/Civil engineer: Chief Engineer Structural. Project Interior Designer: Chief Designer.					
ITT 3.1	Maximum number of members in the Joint Venture (JV) shall be: FIVE.					

Section II - Tender Data Sheet (TDS)					
	The following specific data shall complement, supplement, or amend the provisions in the Instructions to				
	Whenever there is a conflict, the provisions herein shall prevail over those in ITT.				
Reference to	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERERS				
ITC Clause					
ITT 2 12	Valid NCA Registration Certificate and Practicing License in the required				
ITT 3.12	category; shall be provided as detailed in the Evaluation/Qualification Criteria SECTION IV				
	f Tender Document				
ITT 7.1	 The Tenderer will submit any request for clarifications in writing at the address: Principal Secretary, 				
	State Department for Lands and Physical Planning,				
	P. O. Box 30450-00100,				
	Nairobi.				
	To reach the Procuring Entity not later than Monday, 28th April, 2025 at 1100hrs East				
	<u>African Time</u>				
	(ii) The Procuring Entity shall publish its response at the website www.lands.go.ke				
ITT 7.2	(A) A pre-arranged pretender site visit <i>shall take</i> place at the following date, time and				
	place:				
	Not Applicable(N/A) (B) Pre-Tender meeting <i>[insert "shall" or "shall not"]</i> take place at the following date,				
	time and place:				
	Not Applicable(N/A)				
ITT 7.3	The tenderer will submit any question in writing to reach the procuring entity atmost				
	within 4 Days before the deadline for submission of tenders				
ITT 7.5	The Procuring Entity's website where Minutes of the pre-Tender meeting and the pre-				
	arranged pretender will be published is website www.lands.go.ke				
ITT 9.1	For Clarification of Tender purposes, for obtaining further information and for purchasing				
	tender documents, the Procuring Entity's address is:				
	(1) Name of Procuring Entity is State Department for Lands and Physical Planning				
	(2) Physical address for hand Courier Delivery to an office or Tender at Nairobi, 1 st				
	Ngong Avenue Off Ngong Road, Ardhi House, 12 th Floor, Wing B,				
	Procurement Office.				
	(3) Postal Address: P.O. Box 30450-00100, Nairobi				
	Name, telephone number and e-mail address of the officer to be contacted				
	procurement@ardhi.go.ke				
C. Preparation					
ITT 11.1 (h)	The Tenderer shall submit the following additional documents in its Tender:				
	1. Valid Copy of certificate of incorporation/ Registration certified by the issuing				
	authority or an Advocate of the High Court.				
	2. Contractor's National Construction Authority Current Annual Practicing license.				
	3. National Construction Authority registration certificate (NCA 1-4).				
	4. Valid Current Tax Compliance Certificate issued by Kenya Revenue Authority.				
	5. Dully filled and signed Confidential business questionnaire.				
	6. Valid Copy of Current Single Business permit.				
	7. Submission of valid CR12 form showing the list of directors /shareholding				
	(issued within the last 3 months) or National Identity Card(s) for Sole				
	Proprietorship/ Partnership.				
	8. Submission of original tender document (including supportive document)				
	properly TAPE BOUND and paginated in the correct sequence and all pages				
	must be				
Initialed or signed or stamped. NB: Spiral Binding and use of Spring or Box					
will not be allowed and will result in automatic disqualification.					
	9. Letter of authority to seek references from the Tenderer's bankers.				

Section II - Ten	der 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.					
Reference to	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERERS					
ITC Clause						
	10. Provide proof of Power of attorney where applicable.					
	11. Submit certified copies of Audited accounts (Signed by Auditors and directors)					
	for the last three (3) years (2021, 2022 and 2023).					
ITT 13.1	Alternative Tenders shall not be considered.					
ITT 13.2	Alternative times for completion shall not be permitted.					
ITT 13.4	Alternative technical solutions shall not be permitted					
ITT 14.5	The prices quoted by the Tenderer shall be fixed for the first one year.					
ITT 15.2 (a)	Foreign currency requirements not applicable.					
ITT 18.1	The Tender validity period shall be 126 Days					
ITT 18.3	(a) The Number of days beyond the expiry of the initial tender validity period will be 30 days.					
	 (b) The Tender price shall be adjusted by the following percentages of the tender price: (i) By 0% of the local currency portion of the Contract price adjusted to reflect local inflation during the period of extension, 					
	and (ii) By 0% the foreign currency portion of the Contract price adjusted to reflect the international inflation during the period of extension.					
ITT 19.1	Tender shall provide a Tender Security of Kenya Shillings Two Million Six Hundred Thousand Only (KShs. 2,600,000.00). The type of Tender security shall be either a guarantee from a reputable local bank or insurance company approved by PPRA.					
ITT 20.1	In addition to the original of the Tender, the number of copies is: NONE					
ITT 20.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of a written power of attorney					
D. Submission and Opening of Tenders						
ITT 22.1						
111 22.1	(A) For <u>Tender submission purposes</u> only, the Procuring Entity's address is:					
	Designation: Principal Secretary					
	(1) Name of Procuring Entity; State Department for Lands and Physical Planning					
	(2) Postal Address: <i>State Department for Lands and Physical Planning</i> .					
	P.O. BOX 30450 -00100 Nairobi Kenya.					
	(3) Physical address for Hand Courier Delivery to an office or Tender Box and addressed					
	Date and time for submission of Tenders. Tender Box on or before 28 th April 2025 at 1100hrs East African Time					
	(4). Tenders shall <u>be submitted electronically through the IFMIS procurement module</u> . The original form of tender ,price schedules, power of attonery and Tender security will					
	however be submitted in hard copies to be deposited in the tender box located at the entrance of 12 th floor Ardhi House Nairobi ,1 st Ngong Avenue.					
ITT 25.1	The Tender opening shall take place at the time and the address for Opening of Tenders provided below:					
	 Name of Procuring Entity: State Department for Lands and Physical Planning Physical address for the location <u>as <i>indicated in the Tender advertisement / tender invitation letter</i></u> 					
	(3) State date and time of tender opening. <u>as <i>indicated in the Tender advertisement /</i></u> <u>tender invitation letter</u>					
ITT 25.1	If Tenderers are allowed to submit Tenders electronically, they shall follow the electronic tender submission procedures <u>As prescribed</u>					

Continu II Ton	day Data Shaat (TDS)				
<u>Section II - Tender Data Sheet (TDS)</u> The following specific data shall complement, supplement, or amend the provisions in the Instructions to					
	Whenever there is a conflict, the provisions herein shall prevail over those in ITT.				
Reference to	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERERS				
ITC Clause	TAKTICULARS OF ATTENDIA TO INSTRUCTIONS TO TENDERERS				
	The number of representatives appointed to the Tender Opening Members of the Procur				
ITT 25.6	Entity to sign is at least three.				
The Committee shall initial pages as per the PPAD Act					
E Evaluation	and Comparison of Tenders				
ITT 30.3	The adjustment shall be based on the average price of the item or component as quoted				
111 50.5	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					
shall use its best estimate.					
ITT 31.2	An error if determined a major deviation shall lead to disqualification.				
TT 32.1	The currency that shall be used for Tender evaluation and comparison purposes only to				
	convert at the selling exchange rate all Tender prices expressed in various currencies into				
	a single currency is: Kenya shillings.				
	The serves of evolution rate shall be. Not Applicable				
	The source of exchange rate shall be: Not Applicable				
	The date for the exchange rate shall be: Not Applicable				
	For comparison of Tenders, the Tender Price, corrected pursuant to ITT 31, shall first be				
broken down into the respective amounts payable in various currencies by usin selling exchange rates specified by the Tenderer in accordance with ITT 15.1.					
	sening exenange rules specified by the renderer in decondunce with 111 15.1.				
	In the second step, the Procuring Entity will convert the amounts in various currencies in				
	which the Tender Price is payable (excluding Provisional Sums but including Daywork				
	where priced competitively) to the single currency identified above at the selling rates				
established for similar transactions by the authority specified and, on the de					
above.					
ITT 33.2	A margin of preference <i>shall not</i> apply.				
ITT 33.4	The invitation to tender is extended to the following group that qualify for Reservations:				
	N/A				
(These groups are Small and Medium Enterprises, Women Enterprises, Youth					
and Enterprises of persons living with disability, as the case may be; describe					
	which group qualifies).				
ITT 34.1 At this time, the Procuring Entity <i>intends</i> to execute certain specific parts of the wo					
	domestic subcontractors.				
ITT 34.2	Contractor's may propose subcontracting: Maximum percentage of subcontracting permitted				
	is: 10% of the total contract amount. Tenderers planning to subcontract more than 10% of				
total volume of work shall specify, in the Form of Tender, the activity (ies) or part					
	Works to be subcontracted along with complete details of the subcontractors and their				
ITT 34.3	qualification and experience.				
111 54.5	The parts of the Works for which the Procuring Entity permits Tenderers to propose Specialized Subcontractors are designated as follows: Electrical Works and Mechanical				
	Works				
	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.				
ITT 35.2 (e)	Additional requirements apply. These are detailed in the evaluation criteria in Section III,				
	Evaluation and Qualification Criteria.				
ITT 48.1	Other documents required in addition to the performance security are				
	1. Program of Works / Progress Chart				
	2. Insurance.				
ITT 50.1					
	of Intention to Award the Contract" herein and are also available from the PPRA Website				
	www.ppra.go.ke or email complaints@ppra.go.ke.				

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.					
Reference to	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERERS				
ITC Clause					
	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:				
	For the attention: as <i>indicated in the Tender advertisement / tender invitation letter</i>				
	Title/position: as indicated in the Tender advertisement / tender invitation letter				
	Procuring Entity: State Department for Lands and Physical Planning ands and Physical Planning				
	Email address: info@lands.go.ke				
In summary, a Procurement-related Complaint may challenge any of the followin (among others):					
	(i) the terms of the Tender Documents; and				
	(ii) the Procuring Entity's decision to award the contract.				

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

10 GENERAL PROVISIONS

- 1.1 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 shall use <u>the Standard</u> Tender Evaluation Document for Goods and Works for evaluating Tenders.
- 12 Wherever a Tenderer is required to state a monetary amount, Tenderers should indicate the Kenya Shilling equivalent using the rate of exchange determined as follows:
 - a) For construction turnover or financial data required for each year Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year are to be converted) was originally established.
 - b) Value of single contract Exchange rate prevailing on the date of the contract signature.
 - (c) Exchange rates shall be taken from the publicly available source identified in the ITT 14.3. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

13 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.

2.0 PRELIMINARY EXAMINATION FOR DETERMINATION OF

RESPONSIVENESS Preliminary examination for Determination

of Responsiveness

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

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

3.0 TENDER EVALUATION (ITT 35)

Price evaluation: in addition to the criteria listed in ITT 35.2 (a) - (d) the following criteria shall apply:

- (i) Alternative Completion Times, if permitted under ITT13.2, 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(j):

4.0 MULTIPLE CONTRACTS

4.1 Multiple contracts will be permitted in accordance with ITT 35.4. Tenderers are evaluated on basis of Lots and a 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 a contract for all won Lots, provided the tenderer meetstheaggregate Eligibility and Qualification Criteria for all the won Lots. The tenderer will be awarded only the combinations for which the tenderer qualifies and the others will be considered for award to second lowest the tenderers.

OPTION2

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

5.0 ALTERNATIVE TENDERS (ITT 13.1)

Alternative Tenders (ITT 13.1)

An alternative if permitted under ITT 3.1, 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.

60 MARGIN OF PREFERENCE

- **61** If the TDS so specifies, the Procuring Entity will grant a margin of preference of fifteen percent (15%) to be loaded on evaluated prices of the foreign tenderers, where the percentage of share holding of Kenyan citizens is less than fifty- one percent (51%).
- 62 Contractors shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a particular contractor or group of contractors qualifies for a margin of preference.
- 63 After Tenders have been received and reviewed by the Procuring Entity, responsive Tenders shall be assessed to ascertain their percentage of shareholding of Kenyan citizens. Responsive tenders shall be classified into the following groups:
 - i) *Group A:* tenders offered by Kenyan Contractors and other Tenderers where Kenyan citizens hold shares of over fifty one percent (51%).
 - ii) *Group B:* tenders offered by foreign Contractors and other Tenderers where Kenyan citizens hold shares of less than fifty one percent (51%).
- **64** All evaluated tenders in each group shall, as a first evaluation step, be compared to determine the lowest tender, and the lowest evaluated tender in each group shall be further compared with each other. If, as a result of this comparison, a tender from Group A is the lowest, it shall be selected for the award of contract. If a tender from Group B is the lowest, an amount equal to the percentage indicated in Item 6.1 of the respective tender price, including unconditional discounts and excluding provisional sums and the cost of day works, if any, shall be added to the evaluated price offered in each tender from Group B. All tenders shall then be compared using new prices with added prices to Group B and the lowest evaluated tender from Group A. If the tender from Group A is still the lowest tender, it shall be selected for award. If not, the lowest evaluated tender from Group B based on the first evaluation price shall be selected.

7. Post qualification and Contract award (ITT 39), more specifically,

- a) In case the tender <u>was subject to post-qualification</u>, the contract shall be awarded to the lowest evaluated tenderer, subject to confirmation of pre-qualification data, if so required.
- b) Incase the tender <u>was not subject to post-qualification</u>, the tender that has been determined to be the lowest evaluated tenderer shall be considered for contract award, subject to <u>meeting each of the following conditions</u>.
 - 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 Ten million per month.
 - ii) Minimum <u>average</u> annual construction turnover of Kenya Shillings Two Hundred Million equivalent calculated as total certified payments received for contracts in progress and/or completed within the last Five years [5 years] years.
- iii) At least five (5) of contract(s) of a similar nature executed within Kenya, or the East African Community or a broad, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or sub-contractor each of minimum value Kenya shillings One Hundred Million equivalent.
- iv) Contractor's Representative and Key Personnel, which are specified as: Site agent, electrical and mechanical engineer
- v) Contractors key equipment listed on the table "Contractor's Equipment" below and more specifically listed as *[specify requirements for each lot as applicable]*

Main Scope of W of this Tender	Works	Main Equipment	Quantity (No) (Minimum)	Owned	Hired/ leased
Total					

iv) 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 Ten (*10years*). The required information shall be furnished in the appropriate form.

b) Pending Litigation

Financialpositionandprospectivelong-termprofit ability 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

c) LitigationHistory

There shall be no consistent history of court/arbitral award decisions against the Tenderer, in the last Ten (*10years*). All parties to the contract shall furnish the information in the appropriate form about any litigation or arbitration resulting from contracts completed or on going unde rits 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.

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

To be qualified for award of Contract, the tenderer shall provide evidence satisfactory to the Employer of their eligibility and of their capability and adequacy of resources to effectively carry out the subject Contract.

After tender opening, the tenders will be evaluated in 4 stages, namely:

- Preliminary examination in 2 stages;
 - (i) Stage i for Main Contractor
 - (ii) Stage ii for Sub Contractors
- 2. Detailed Technical Examination.
- 3. Financial Evaluation.

1.

4. Recommendation for award

1. STAGE I: PRELIMINARY EXAMINATION OF FOR MAIN CONTRACTOR

ltem No.	Qualification Subject	Document To be Completed or Attached	Qualification Requirements to be Met	nts r	uireme net or Met
				YES	NO
MR 1	Form of Tender	Form of Tender	Form of Tender in the format described in ITT 12.1; - Completed without alterations to the text. - Properly filled on the tenderer's letter head and signed by authorized persons.		
MR 2	Nationality	Forms ELI – 1.1 and 1.2	Nationality in accordance with ITT 3.6 and 3.9; - Attach proof of Citizenship and Directors' shareholding. -Filled, signed and stamped Tender Information - Attach CR12 or CR13 <i>not older than 6</i> <i>months</i>		
MR 3	Tax Obligations for Kenyan Tenderers	Tax Compliance Certificate or Tax Exemption Certificate	Has produced a current and valid Tax Compliance Certificate or Tax Exemption Certificate issued by Kenya Revenue Authority in accordance with ITT 3.14.		

MR 4	Conflict of Interest	Confidential Business Questionnaire	No conflicts of interest in accordance with ITT 3.3; -Properly Filled, Stamped and Signed
MR 5	PPRA Eligibility / Debarment on PPADA	Self- Declaration (Form SD1)	Not having been declared ineligible by the PPRA as described in ITT 3.7; -Form filled and duly signed.
MR 6	Independent Tender Determination	Certificate of Independent Tender Determination	-Properly Filled, Stamped and Signed - 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 ITT 17.7
MR 7	Self-Declaration on Corruption / Fraudulent Practices	Form – SD2	 Properly Filled, Stamped and Signed A tenderer shall not be involved in corrupt, coercive, obstructive or fraudulent practice. A tenderer that is proven to have been involved in any of these practices shall be automatically disqualified as per ITT 3.4 and Section 62 PPAD ACT 2015
MR 8	Code of Ethics	Declaration and Commitment to the Code of Ethics Form	-Properly filled, Stamped and Signed - 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. Section 66 of PPAD ACT 2015.
MR 9	Bill of Quantities	Bills of Quantities	-Bill of Quantities, shall be prepared using the relevant forms. -All blank spaces shall be filled in with the information requested using indelible ink. -The Tenderer shall sequentially serialize all pages of the tender documents submitted; ITT 12.1
MR 10	Companies Registration/ Incorporation	Attach valid and certified copies of Incorporation and NCA	-Attach certified copies of Certificate of Incorporation

MR 11	NCA Registration and Licensing	Attach valid and certified copies	-Attach NCA (1-4) Registration Certificate of the relevant field (Building Works). -Attach a valid NCA Annual Practicing License	
MR 12	History of Non- Performing Contracts, Pending Litigation and Litigation History	Form CON-2	Properly Filled, Stamped and Signed: -Non-performance of a contract did not occur as a result of contractor default since 1st January 2020. -No consistent history of court/arbitral award decisions against the tenderer since 1st January 2020	
MR 13	On-going Contracts	Form FIN3.4	Properly Filled, Stamped and Signed: -Provide information on current commitments on all contracts for which a letter of intent/ acceptance has been received or for contracts which full completion certificates have not/yet to be issued.	
MR 14	Submission of Tender	Tender Document	-The tender document MUST be submitted through IFMIS system. -Kindly note: The original copy of the form of tender, Price Schedules, Tender security and authorization to sign the tender in the form of Power of attonery to be submitted in Hard copy in the tender box located at the entance of 12 th floor Ardhi House Nairobi, 1st Ngong Avenue .	
MR 15	Allowed to do business	Business Permit	-Attach a valid Trade license and/or Single Business permit/Unified Business Permit issued by relevant government body/agency for 2025.	
MR 16	Tender Security	Bid bond/ Tender Security	Tenderer shall provide a Tender Security of Kenya Shillings Two Million Six Hundred Thousand Only (KShs. 2,600,000.00). The type of Tender security shall be a Bank Guarantee from a reputable bank or a Guarantee by an insurance company registered and licensed by the Insurance Regulatory Authority, or a Guarantee issued by a financial institution approved and licensed by the Central Bank. The security should be valid for 30 days beyond the tender validity period.	

MR 17	Power of Attorney	Attach letter	Power of attorney/ Authorization Letter duly signed (should be signed by directors appearing in CR12/13) or by the director of the firm with the highest shares, giving the name and ID number of person who has been authorized to submit/execute this agreement as a binding document and this person should sign all the documents related to this tender.
MR 18	Domestic subcontractors' agreement	Attach agreement	Main Contractor must attach duly signed and stamped pre- contract agreement (witnessed by an attorney/advocate) to work together with the Domestic Sub-Contractors (For Electrical and Mechanical Works) (NB: not necessary if the Main Contractor is also registered for specialist works). -If awarded the Tender (where Applicable), the agreement should be signed by both parties for it to be valid. Subcontractors shall not be changed during implementation of the contract unless with formal approval of the client through the project manager.

NOTE: - The employer may seek further clarification/confirmation, if necessary, to confirm authenticity/ compliance of any condition of the tender.

- The tenderers who do not satisfy any of the above requirements shall be considered Non-Responsive and their tenders including those of their subcontractors will not be evaluated further. - Preliminary evaluation criteria for the proposed domestic subcontractors (stage ii) to be as contained in the respective sections.

STAGE 2: TECHNICAL EVALUATION

Evaluation of the Main Contractor and Domestic Sub- Contractors

Notes:

- Assessment for eligibility: The tender document shall be examined based on ITT 16 and 17 of the Instruction to Tenderers.
- The tenderers will be required to provide evidence for eligibility of the award of the tender by satisfying the employer of their eligibility and their capability and adequacy of resources to effectively carry out the subject contract.
- The tenderers shall be required to fill the Standard Forms provided in the bid document for the purposes of providing the required information. The tenderers must also attach evidence where necessary.
- The Main Contractor MUST ensure that sub-contractors provide requirements for Domestic Subcontracting in the Key Personnel, Completed and Ongoing Projects to incorporate in Technical Evaluation.

The technical criteria considered in this section shall be as shown below:

ITEM	DESCRIPTION	CRITER NOT	ia met. ' Met
		YES	NO
(i)	Key Personnel (Attach evidence)		
	 At least one (1No.) Director of the firm (relevant Architecture, Quantity Survey, Building, Construction Management, Civil, Electrical and Mechanical Engineering, or any other Construction Related Field) Holder of Degree/Higher Diploma in relevant Engineering field Has over 10 years relevant experience 		
	 Project Manager At least one (1No.) degree/diploma holder in Architecture, Quantity Survey, Building, Construction Management, Civil, Electrical and Mechanical Engineering, or any other Construction Related Field Has not less than 10 years relevant experience 		
	 <u>Site Agent</u> At least Certificate holder of in Architecture, Quantity Survey, Building, Construction Management, Civil, Electrical and Mechanical Engineering, or any other Construction Related Field Has not less than 5 years relevant experience 		
	 Foreman At least Certificate holder in Architecture, Quantity Survey, Building, Construction Management, Civil, Electrical and Mechanical Engineering, or any other Construction Related Field: Has not less than 5 years relevant experience 		
	<u>Artisans</u> 1. 2No artisans (Trade Test certificate in relevant Engineering/Construction related field) 2. Have not less than 5 years relevant experience		
	Specific Experience Contracts completed in the last five (5) years 1. Has a Minimum of 5No. Projects, 3 from Main Contractor and 1 No. each from each of the Sub-Contract Works) of Similar Nature, complexity & Magnitude. (<i>Contract Sum be at least 80% of Estimated Value of Works</i> <i>Tendered for</i>) -Provide Evidence (Contract Agreement and Completion Certificate) 2. Properly Filled, Stamped and Signed Form EXP-4.1		
	 Schedule of contractor's equipment and transport: If the equipment is owned, must provide CLEAR copies of logbook or proof of ownership. If equipment is hired or leased, provide a commitment letter from the lessor of the equipment addressed to the Principal Secretary, State Department for Lands and Physical Planning indicating that the lessor shall avail the equipment upon award of the tender and submit a copy of a written, signed and stamped agreement to lease between lessee and lessor indicating list of equipment and their corresponding copies of log books or proof of ownership by lessor; a) Relevant Transport 2No Pick-ups 2No Tippers/Lorry Trucks 		
	 b) Relevant Tools and Equipment Ino. Excavator Ino. Concrete Mixer Ino. Hoist Ino. Concrete Pump Atleast 4 sets Steel Scaffolds 2no. Tile cutting Machines 		

	Average Annual Turnover (Main Contractor)			
(iv)	Average Annual Turnover (Payment on Contracts Received for the last 3			
	years (2021, 2022, 2023) divided by 3 is equal to or greater than the cost			
	of the project.			
	• Attach evidence in form of audited accounts, serialized on every page;			
	duly signed and stamped by a registered auditor /audit firm (ICPAK			
	REGISTERED, attach license)			
(v)	Evidence of Financial Resources (cash in hand, lines of credit, over draft			
	facility etc.)- Bank/Creditors/Letters to be dated not earlier than September			
	2024)			
	 Addressed specifically to the project 			
	2. Financial resources able to finance the projected monthly Cash			
	flow for three months			
	QUALIFICATION			

*Monthly Cash Flow =Tender Sum/Contract Period

NB: Bidders who do not satisfy any of the above requirements shall be considered non responsive and their tenders will not be evaluated further

STAGE 3: FINANCIAL EVALUATION.

Upon completion of the technical evaluation, a detailed financial evaluation shall follow. The financial evaluation shall proceed in the manner described in the Public Procurement and Asset Disposal Act (2015).

The evaluation shall be in three stages

- a) Determination of the Corrected Tender Sums;
- b) Comparison of Rates for major components of Works; and
- c) Consistency of the Rates

A. Determination of errors

The evaluation committee will be guided by the following provisions in error determination:

- (i) Section 82 of the PPADA, 2015 requires that 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.
- (ii) Section 74 (2) of the PPADR, 2020 states that subject to section 79(2) (b) of the Act, any errors in the submitted tender arising from a miscalculation of unit price, quantity, subtotal and total bid price shall be considered as a major deviation that affects the substance of the tender and shall lead to disqualification of the tender as non-responsive.

Further, the committee will be guided as per the tender document under Instructions to Tender;

clause 31.0 as follows:

31.0 Arithmetical Errors

- **31.1** 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.
- **31.2** 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

31.3 Tenderers shall be notified of any error detected in their bid during the potification of award

Bidder	Bidder's price (Form of Tender)	Error	ECF (%)	Ranking
1				
2				

B) Comparison of Rates for the bidder

The evaluation committee will compare the tenderers quoted rates with the prevailing market rates. Any tender which in the opinion of the procuring entity is seriously front-loaded shall be disqualified.

C) Consistency of the Rates

The evaluation committee will compare the consistency of rates for similar items and note all inconsistencies of the rates for similar items.

STAGE 4 – POST QUALIFICATION

Particulars of post – qualification if applicable. The Employer, State Department for Lands and Physical Planning shall conduct due diligence to seek further clarification/confirmation, to confirm authenticity/compliance of any condition of the tender/qualifications of the tenderer in line with Section 83 of the Public Procurement and Asset Disposal Act, 2015.

RECOMMENDATION FOR AWARD

The firm achieving the lowest evaluated price will be awarded the contract in line with Section 86 of the Public Procurement and Disposal Act, 2015. The lowest evaluated tender shall be rejected if misrepresentation of information or facts is detected during post qualification evaluation. SECTION IV - TENDERING FORMS

QUALIFICATION FORMS

1. FOREIGN TENDERERS 40%RULE

Pursuant to ITT 3.9, a foreign tenderer must complete this form to demonstrate that the tender fulfils this condition.

ITEM	Description of Work Item	Describe location of Source	COST in K. shillings	Comments, if any
А	Local Labor			
1				
2				
3				
4				
5				
В	Sub contracts from Local source	es		
1				
2				
3				
4				
5				
С	Local materials			
1				
2				
3				
4				
5				
D	Use of Local Plant and Equipme	ent	1	1
1				
2				
3				
4				
5				
Е	Add any other items	1		
1				
2				
3				
4				
5				
6				
	TOTAL COST LOCAL CONT		XXXXX	
	PERCENTAGE OF CONTRAC			

2. FORMEQU: EQUIPMENT

The Tenderer shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria. A separate Form shall be prepared for each item of equipment listed, or fo ralternative equipment proposed by the Tenderer.

Item of equipm	ent		
Equipment information	Name of manufacturer	Model and power rating	
	Capacity	Year of manufacture	
Current status	Current location		
	Details of current commitments		
Source	Indicate source of the equipment		
	□ Owned □ Rented □ Lease	ed D Specially manufactured	

Omit the following information for equipment owned by the Tenderer.

Owner	Name of owner		
	Address of owner		
	T 1 1		
	Telephone	Contact name and title	
	Fax	Telex	
Agreements	Details of rental / lease / manufacture agreements specific to the project		

3. <u>FORM PER -1</u>

Contractor's Representative and Key Personnel Schedule

Tenderers should provide the names and details of the suitably qualified Contractor's Re presentative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Contractor' Representative and Key Personnel

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

4. <u>FORM PER - 2:</u>

Resume and Declaration - Contractor's Representative and Key Personnel.

Name of Tend	lerer					
Position [#1]:	[title of position from Form PE	-1]				
Personnel information	Name:	Date of birth:				
	Address:	E-mail:				
	Professional qualifications:					
	Academic qualifications:					
	Language proficiency: [language]	age and levels of speaking, reading and writing skills]				
Details	Address of Procuring Entity:					
	Telephone: Contact (manager / personnel officer):					
	Fax:					
	Job title:	Years with present Procuring Entity:				

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	Role	Duration of involvement	Relevant experience
[main project details]	[role and responsibilities on the project]	[time in role]	[describe the experience relevant to this position]

Declaration

I, the undersigned *[insert either "Contractor's Representative" or "Key Personnel" as applicable]*, certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Tender:

Commitment	Details
Commitment to duration of contract:	[insert period (start and end dates) for which this
	Contractor's Representative or Key Personnel is available
	to work on this contract]
Time commitment:	[insert period (start and end dates) for which this
	Contractor's Representative or Key Personnel is available
	to work on this contract]

I understand that any misrepresentation or omission in this Form may:

- (a) be taken into consideration during Tender evaluation;
- (b) result in my disqualification from participating in the Tender;
- (c) result in my dismissal from the contract.

Name of Contractor's Representative or Key Personnel: [insert name]

Signature:

Date: (day month year):

Countersignature of authorized representative of the Tenderer:

Signature:

Date: (day month year):

5. TENDERERS QUALIFICATION WITHOUT PREQUALIFICATION

To establish its qualifications to perform the contract in accordance with Section III, Evaluation and Qualification Criteria the Tenderer shall provide the information requested in the corresponding Information Sheets included hereunder.

5.1 FORM ELI -1.1

Tenderer InformationForm

Date:
ITT No. and title:
Tenderer's name
In case of Joint Venture (JV), name of each member:
Tenderer's actual or intended country of registration:
[indicate country of Constitution]
Tenderer's actual or intended year of incorporation:
Tenderer's legal address [in country of registration]:
Tenderer's authorized representative information
Name:
Address:
Telephone/Fax numbers:
E-mail address:
1. Attached are copies of original documents of
Articles of Incorporation (or equivalent documents of constitution or association), and/or
documents of registration of the legal entity named above, in accordance with ITT 3.6
□ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITT 3.5
□In case of state-owned enterprise or institution, in accordance with ITT 3.8, documents establishing:
Legal and financial autonomy
Operation under commercial law
1. Establishing that the Tenderer is not under the supervision of the Procuring Entity
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

52 FORM ELI -1.2

Tenderer's JV Information Form (to be completed for each member of Tenderer's JV)

Date:

ITT No. andtitle:_____

Entity, in accordance with ITT 3.5.

Tenderer's JV name:	
JV member's name:	
JV member's country of registration:	
JV member's year of constitution:	
JV member's legal address in country of constitution:	
JV member's authorized representative information	
Name:	
Address:	
Telephone/Fax numbers:	
E-mail address:	
 1. Attached are copies of original documents of Articles of Incorporation (or equivalent documents of constitution documents of the legal entity named above, in accordance with ITT 3.6. In case of a state-owned enterprise or institution, documents estable operation in accordance with commercial law, and that they are not a state of the stat	lishing legal and financial autonomy,

2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

53 <u>FORM CON –2</u>

Historical Contract Non-Performance, Pending Litigation and Litigation History

	_
ie	_
	ne

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

Contract non-performance did not occur since 1st January *[insert year]* specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 2.1.

Contract(s) not performed since 1st January *[insert year]* specified in Section III, Evaluation and Qualification Criteria, requirement 2.1

Contract(s) withdrawn since 1st January *[insert year]* specified in Section III, Evaluation and Qualification Criteria, requirement 2.1

Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and Kenya Shilling equivalent)
[insert	[insert amount	L 1	[insert amount]
year]	and percentage]	number, and any other identification]	
		Name of Procuring Entity: [insert full name]	
		Address of Procuring Entity: [insert street/city/country]	
		Reason(s) for nonperformance: [indicate main reason(s)]	
Pending	Litigation, in accorda	nce with Section III, Evaluation and Qualification Criteria	
	No pending litigation	in accordance with Section III, Evaluation and Qualification	on Criteria, Sub-Factor 2.3.
	Pending litigation in a	accordance with Section III, Evaluation and Qualification Cri	iteria, Sub-Factor 2.3 as
indicated	d below.		

Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)
		Contract Identification:	
		Name of Procuring Entity:	
		Address of Procuring Entity:	
		Matter in dispute:	
		Party who initiated the dispute:	
		Status of dispute:	
		Contract Identification:	
		Name of Procuring Entity:	
		Address of Procuring Entity:	
		Matter in dispute:	
		Party who initiated the dispute:	
		Status of dispute:	
Litigation H	istory in accordance with S	Section III, Evaluation and Qualification Criter	ia

No Litigation History in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor
 2.4.

Litigation History in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.4 as indicated below.

Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)
[insert [i year]		Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Entity: [insert full name] Address of Procuring Entity: [insert street/city/country] Matter in dispute: [indicate main issues in dispute] Party who initiated the dispute: [indicate "Procuring Entity" or "Contractor"] Reason(s) for Litigation and award decision [indicate main reason(s)]	[insert amount]

Include details relating to potential bid-rigging practices such as previous occasions where tenders were withdrawn, joint bids with competitors, subcontracting work to unsuccessful tenderers, etc.

5.4 **FORM FIN – 3.1:**

Financial Situation and Performance

Tenderer's Name:	
Date:	
JV Member's Name	
ITT No. and title:	

5.4.1. Financial Data

Type of Financial information Historic information for previous					
(currency)	(amount in currency, currency, exchange rate*, USD equivalent)				
	Year 1	Year 2	Year 3	Year 4	Year 5
Statement of Financial Position (Info	rmation from	m Balance She	eet)		
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

*Refer to ITT 15 for the exchange rate

5.4.2 Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

No.	Source of finance	Amount (Kenya Shilling equivalent)
1		
2		
3		

5.4.3 Financial documents

The Tenderer and its parties shall provide copies of financial statements for ______years pursuant Section III, Evaluation and Qualifications Criteria, Sub-factor 3.1. The financial statements shall:

(a) reflect the financial situation of the Tenderer or in case of JV member, and not an affiliated entity (such as parent company or group member).

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

 \Box Attached are copies of financial statements¹ for the _____ years required above; and complying with the requirements

¹ If the most recent set of financial statements is for a period earlier than 12 months from the date of Tender, the reason for this should be justified.

5.5 <u>FORM FIN – 3.2:</u>

Average Annual Construction Turnover

Tenderer's Name:	
Date:	
JV Member's Name	
ITT No. and title:	

Annual turnover data (construction only)				
Year	Amount Currency	Exchange rate	Kenya Shilling equivalent	
[indicate year]	[insert amount and indicate currency]			
Average Annual Construction Turnover *				

* See Section III, Evaluation and Qualification Criteria, Sub-Factor 3.2.

5.6 **FORM FIN – 3.3**:

Financial Resources

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

Fina	Financial Resources			
No.	Source of financing	Amount (Kenya Shilling equivalent)		
1				
2				
3				

5.7 **FORM FIN – 3.4:**

Current Contract Commitments / Works in Progress

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

Current	Current Contract Commitments					
No.	Name of Contract	Procuring Entity's Contact Address, Tel,	Value of Outstanding Work [Current Kenya Shilling /month Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [Kenya Shilling /month)]	
1						
2						
3						
4						
5						

5.8 **FORM EXP - 4.1**

General Construction Experience

Tenderer's Name:	
Date:	
JV Member's Name	_
ITT No. and title:	_

Page_____of____pages

Starting	Ending	Contract Identification	Role of
	Year		Tenderer
Year			
		Contract name:	
		Brief Description of the Works performed by the	
		Tenderer:	
		Amount of contract:	
		Name of Procuring Entity:	
		Address:	
		Contract name:	
		Brief Description of the Works performed by the	
		Tenderer:	
		Amount of contract:	
		Name of Procuring Entity:	
		Address:	
		Contract name:	
		Brief Description of the Works performed by the	
		Tenderer:	
		Amount of contract:	
		Name of Procuring Entity:	
		Address:	

5.9 **FORM EXP - 4.2(a)**

Specific Construction and Contract Management Experience

Tenderer's Name:	
Date:	
JV Member's Name	
ITT No. and title:	

Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor □	Member in JV □	Management Contractor	Sub- contractor □
Total Contract Amount			Kenya Shilling	ų.
If member in a JV or sub-contractor,				
specify participation in total Contract				
amount				
Procuring Entity's Name:				
Address:				
Telephone/fax number				
E-mail:				

5.9 <u>FORM EXP - 4.2(a)</u> Specific Construction and Contract Management Experience

Tenderer's Name: _____ Date: _____ JV Member's Name_____ ITT No. and title: _____

Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor □	Member in JV □	Management Contractor	Sub- contractor □
Total Contract Amount			Kenya Shilling	
If member in a JV or sub-contractor,				
specify participation in total Contract amount				
Procuring Entity's Name:				
Address:				
Telephone/fax number				
E-mail:				

5.9 <u>FORM EXP - 4.2 (a) (cont.)</u>

Specific Construction and Contract Management Experience (cont.)

Simila	r Contract No.	Information
Description of the similarity in accordance		
with Su	ub-Factor 4.2(a) of Section III:	
1.	Amount	
2.	Physical size of required works	
items		
3.	Complexity	
4.	Methods/Technology	
5.	Construction rate for key activities	
6.	Other Characteristics	

5.10 FORM EXP - 4.2(b)

Construction Experience in Key Activities

Tenderer's Name:	
Date:	
Tenderer's JV Member Name:	
Sub-contractor's Name ² (as per ITT 34):	
ITT No. and title:	

All Sub-contractors for key activities must complete the information in this form as per ITT 34 and Section III, Evaluation and Qualification Criteria, Sub-Factor 4.2.

1. Key Activity No One: _

	Information				
Contract Identification					
Award date					
Completion date					
Role in Contract	Prime Contractor	Men JV □	nber in	Management Contractor	Sub-contractor
Total Contract Amount				Kenya Shilling	5
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity the contract (i)	in	Percentage participatio (ii)		Actual Quantity Performed (i) x (ii)
Year 1					
Year 2					
Year 3					
Year 4					
Procuring Entity's Name:					
Address: Telephone/fax number E-mail:					

² If applicable

	Information
Description of the key activities in accordance with Sub-Factor 4.2(b) of Section III:	

2. Activity No. Two

3.

OTHER FORMS

6. FORM OF TENDER

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

INSTRUCTIONS TO TENDERERS

- i) All italicized text is to help the Tenderer in preparing this form.
- *ii)* The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address. Tenderers are reminded that this is a mandatory requirement.
- *iii)* Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION FORMS OF THE TENDERER as listed under (xxii) below.

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

To: [Insert complete name of Procuring Entity]

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

for Tender No.: [insert identification] **Name and description of Tender** [Insert as per ITT) **Alternative No.:** [insert identification No if this is a Tender for an alternative]

To: [insert complete name of Procuring Entity]

Dear Sirs,

I. 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 sum³ of Kenya Shillings [[Amount in figures] ______ Kenya Shillings [amount in words]

The above amount includes foreign currency⁴ amount (s) of [*state figure or a percentage and currency*] [figures]_____[words]_____

- 2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Architect 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 adhereby this tender until *[Insert date]*, and it shall remain binding upon us and may be accepted at any time before that date.
- 4. We understand that you are not bound to accept the lowest or any tender you may receive.
- 5. We, the under signed, further declare that:
 - i) <u>No reservations</u>: We have examined and have no reservations to the tender document, including Addenda issuedinaccordance with ITT 28;
 - ii) <u>Eligibility:</u> We meet the eligibility requirements and have no conflict of interest in accordance with ITT 3 and 4;

³ This sum should be carried forward from the Summary of the Bills of Quantities.

⁴ The percentage quoted above should not include provisional sums, and not more than two foreign currencies are allowed.

- iii) <u>Tender Securing Declaration</u>: 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)* <u>Conformity</u>: We offer to execute in conformity with the tendering documents and in accordance with the implementation and completion specified in the construction schedule, the following Works: *[insert a brief description of the Works];*
- *v)* <u>Tender Price:</u> The total price of our Tender, excluding any discounts offered in item 1 above is: *[Insert one of the options below as appropriate]*
- vi <u>Option 1</u>, incase of one lot: Total priceis: [insert the total price of the Tender in words and figures, indicating the various amounts and the respective currencies]; or

Option2, in case of multiple lots:

- (a) <u>Total price of each lot</u> [*insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies*]; and
- (b) <u>Total price of all lots</u> (sum of all lots) [*insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies*];
- vii) <u>Discounts:</u> The discounts offered and the methodology for their application are:
- viii) The discounts offered are: [Specify in detail each discount offered.]
- ix) 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];
- <u>Tender Validity Period</u>: 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;
- xi) <u>Performance Security:</u> If our Tender is accepted, we commit to obtain Performance Security in accordance with the Tendering document;
- xii) <u>One Tender Per Tender</u>: Weare 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 sub-contractor, and meet the requirements of ITT 3.4, other than alternative Tenders submitted in accordance with ITT 13.3;
- xiii) <u>Suspension and Debarment</u>: We, along with any of our subcontractors, suppliers, Engineer, 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.
- xiv) <u>State-owned enterprise or institution</u>: [select the appropriate option and delete the other] [We are not a state- owned enterprise or institution]/[We are a state-owned enterprise or institution but meet the requirements of ITT3.8];
- *xv)* <u>Commissions, gratuities, fees</u>: 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.")

- xvi) <u>Binding Contract:</u> We understand that this Tender, together with your written acceptance there of included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- xvii) <u>Not Bound to Accept:</u> 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;
- xviii) <u>Fraud and Corruption:</u> We here by certify that we have taken steps to ensure that no personacting for us or on our behalf engages in any type of Fraud and Corruption; and
- xix) <u>Collusive practices:</u> 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.
- xx) We undertake to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, copy available from ______ (specify website) during the procurement process and the execution of any resulting contract.
- xxi) **Beneficial Ownership Information:** We commit to provide to the procuring entity the Beneficial Ownership Information in conformity with the Beneficial Ownership Disclosure Form upon receipt of notification of intention to enter into a contract in the event we are the successful tenderer in this subject procurement proceeding.
- xxii) We, the Tenderer, have duly completed, signed and stamped the following Forms as part of our Tender:
 - a) Tenderer's Eligibility; Confidential Business Questionnaire to establish we are no tin any conflict to interest.
 - (b) Certificate of Independent Tender Determination to declare that we completed the tender without colluding with other tenderers.
 - (a) 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: *[insert complete name of person signing the Tender]

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

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

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

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

Datesigned______dayof______,

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

(a) Tenderer'sdetails

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

General and Specific Details

(b) Sole Proprietor, provide the following details.

Name in full	Age
Nationality	Country of Origin
Citizenship	

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

	Names of Partners	Nationality	Citizenship	% Shares owned
1				
2				
3				

- (d) **Registered Company**, provide the following details.
 - I) Private or public Company _____

ii) State the nominal and issued capital of the Company_

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

iii) Give details of Directors as follows.

	Names of Director	Nationality	Citizenship	% Shares owned
1				
2				
3				

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

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

If yes, provide details as follows.

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

(iii) Conflict of interest disclosure

(III)	Toma of Conflict	D !!.	
	Type of Conflict	Disclosure	If YES provide details of the relationship with
1		YES OR NO	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		

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
	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.		

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_____

Titleor Designation_____

(Signature)

(Date)

b) <u>CERTIFICATE OF INDEPENDENT TENDER DETERMINATION</u>

Icertify, on behalf of

[NameofTenderer]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. Iamthe 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. TheTenderer 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) theTenderer 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. Inparticular, 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 intentiono r 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 pursuan tto 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 toparagraph(5)(b) above;
- 8. Thetermsofthe 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, whichevercomesfirst, unless otherwise required byl aw or as specifically disclosed pursuant to paragraph (5)(b) above.

Name	
Title	
Date	

(c) <u>SELF-DECLARATION FORMS</u>

FORM SD1

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

- I, being a resident of do hereby make a statement as follows: -
- 2. THAT the aforesaid Bidder, its Directors and subcontractors have not been debarred from participating in procurement proceeding under Part IV of the Act.
- 3. THAT what is deponed to here in above is true to the best of my knowledge, information and belief.

(Title)	(Signature)	(Date)

Bidder Official Stamp

FORM SD2

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

I, being a resident of being a statement as follows: -

- 2 THAT theafore said Bidder, its servants and/oragents/subcontractorswillnotengageinanycorruptorfraudulent 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.
- 4. THAT the aforesaid Bidder will not engage /has not engaged in any corrosive practice with other bidders participating in the subject tender
- 5. THAT what is deponed to here in above is true to the best of my knowledge information and belief.

(Title)	(Signature)	(Date)

Bidder'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 Procurementand Asset Disposal and my responsibilities under the Code.

I do here by 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

1.1 The Government of Kenya's Anti-Corruption and Economic Crime laws and their sanction's policies and procedures, Public Procurement and Asset Disposal Act (*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.

2. Requirements

- 21 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.
- 22 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 as set 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 whohas 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 in to, take part in any decision relating to the procurement or contract; and
 - c) shall not be a subcontract or for the tender to whom was awarded contract, or a member of the group of tenderers to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.
 - 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 conflictofinteresttotheprocuringentity;
 - 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.
- 3. 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 setf orth 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 is representation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party; "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;
 - iv) "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 processorthe exercise of a contract to the detriment of the procuring entity or the tenderer or the contractor, and includes collusive practices amongst tenderers prior to or after tender submission designed to establish tender prices at artificial non-competitive levels and to deprive the procuring entity of the benefits of free and open competition.

- c) Rejects a proposal for award¹ of a contract if PPRA determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- d) Pursuant to the Kenya's above stated Acts and Regulations, may 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 inspect² 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.

¹For the avoidance of doubt, a party's in eligibility to be awarded a contract shall includee, 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.

² 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, suc has 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 copyor electronic format) deemed relevant for th einvestigation/audit, and making copies there of as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

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

Beneficiary:	
Request for Tenders No:	
Date:	
TENDER GUARANTEE No.:	
Guarantor:	

- 1. We have been informed that ______(here inafter called "the Applicant") has submitted or will submit to the Beneficiary its Tender (here inafter called" the Tender") for the execution of ______ under Request for Tenders No. _____("the ITT").
- 2. Furthermore, we understand that, according to the Beneficiary's conditions, Tenders must be supported by a Tender guarantee.
- 3. At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _______) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:
- (a) has withdrawn its Tender during the period of Tender validity set forth in the Applicant's Letter of Tender ("the Tender Validity Period"), or any extension thereto provided by the Applicant; or
- b) having been notified of the acceptance of its Tender by the Beneficiary during the Tender Validity Period or any extension there to provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the Performance.
- 4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii) thirty days after the end of the Tender Validity Period.
- 5. Consequently, any demand for payment under this guarantee must be received by us at the office indicated above onor before that date.

[signature(s)]

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

FORMAT OF TENDER SECURITY [Option 2–Insurance Guarantee]

TENDER GUARANTEE No.:

Sealed with the Common Seal of the said Guarantor this _____day of _____ 20 ___.

- 3. NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Applicant:
 - a) has withdrawn its Tender during the period of Tender validity set forth in the Principal's Letter of Tender ("the Tender Validity Period"), or any extension thereto provided by the Principal; or
 - b) having been notified of the acceptance of its Tender by the Procuring Entity during the Tender Validity Period or any extension thereto provided by the Principal; (i) failed to execute the Contract agreement; or (ii) has failed to furnish the Performance Security, in accordance with the Instructions to tenderers ("ITT") of the Procuring Entity's Tendering document.

then the guarantee undertakes to immediately pay to the Procuring Entity up to the above amount upon receipt of the Procuring Entity's first written demand, without the Procuring Entity having to substantiate its demand, provided that in its demand the Procuring Entity shall state that the demand arises from the occurrence of any of the above events, specifying which event(s) has occurred.

- 4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii)twenty-eight days after the end of the Tender Validity Period.
- 5. Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

[Date]	[Signature of the Guarantor]

[Witness]

[Seal]

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

FORM OF TENDER - SECURING DECLARATION

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

	r	1.	/ 1	.1	1)	CTT 1	a 1 · · · 1
Date:	[insert	date	(as day,	month an	d year)	of Tender	Submission

- 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 ourobligation(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 Iam /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 orstamp

Appendix toTender

Schedule of Currency requirements

Summary of currencies of the Tender for _____ [insert name of Section of the Works]

Name of currency	Amounts payable
Local currency:	
Foreign currency #1:	
Foreign currency #2:	
Foreign currency #3:	
Provisional sums expressed in local currency	[To be entered by the Procuring Entity]

PART II - WORKS REQUIREMENTS

SECTION V - BILLS OF QUANTITIES

A. Notes and Sample Items for Preparing a Bill of Quantities

- 1. These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Tender Documents. Priced Bills of Quantities shall be part and parcel of the Contract Documents.
- 2 The objectives and purpose of the Bills of Quantities are to provide sufficient information on the specifications, descriptions and quantities of Works to be performed to enable tenders to be prepared efficiently and accurately and when a contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed. Inorder to attain these objectives, Works should be itemized in the Bill of Quantities insufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried outin different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and clear as possible.
- 3. The Bills of Quantities should be divided generally into the following sections:
 - a) Preambles
 - b) Preliminary items
 - c) Work Items
 - c) Daywork Schedule; and
 - d) Provisionalitems
 - e) Summary.

4. NOTES TO PREPARING PREAMBLES

- 4.1 The Preambles should include only those items that constitute the cost of the works but would not be priced separately as they are expected to be included in the unit prices. Care should be taken to ensure that these items are not are petition of the conditions of contract. The Preambles should indicate the inclusiveness of the unit prices and should state the methods of measurement that have been adopted in the preparation of the Bill of Quantities, that are to be used for the measurement of any part of the Works. The units of measurement and abbreviations should be defined and any mandatory national units defined and described. The methods of and procedure for re- measurement should be described in the Preambles.
- 42 Units of Measurement The following units of measurement and abbreviations shall be used, unless other national units are mandatory in Kenya.

Unit	Abbreviation	Unit	Abbreviation
cubic meter	m ³ or cu m	millimetre	mm
hectare	ha	month	mon
hour	h	number	nr
kilogram	kg	square meter	m ² or sq m
lump sum	ls	square millimeter	mm ² or sq mm
meter	m	week	wk
metric ton	t		

- 43 The Bills of Quantities shall be read in conjunction with the Instructions to Tenders, General and Special Conditions of Contract, Technical Specifications, and Drawings.
- 44. The quantities given in the Bills of Quantities are estimated and partly provisional and are given to provide a common basis for tendering. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Architect and valued at the rates and prices tender in the priced

Bills of Quantities, where applicable, and otherwise at such rates and prices as the Architect may fix within the terms of the Contract.

- 45. The rates and prices tender in the priced Bills of Quantities shall, except in so far as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
- 46. Arateorprice shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
- 4.7. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bills of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
- 48. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bills of Quantities. References to the relevant sections of the Contract documents shall be made before entering prices agains teach item in the priced Bills of Quantities.
- 49 Provisional Sums and contingency sums included and so designated in the Bills of Quantities shall be expended in whole or in part at the direction and discretion of the Architect in accordance with Sub-Clause13.5 and Clause 13.6 of the General Conditions of contract.
- 4.10 In preparing the Bills of Quantities, notes should be removed as they are intended to guide the person preparing the Tender Documents. The Contractor must allow in his rates for any costs associated with and complying with the requirements in the Preambles.
- 4.11 Should a tenderer/contractor not price any item in any section of the Bills of Quantities including Preliminary items, it will be assumed that he/she has spread its cost in other areas that he/she will have priced. Therefore, the itemor items will be executed without any additional costs or without being treated like variations.

5. <u>NOTES ON PREPARING BILLS OF QUANTITIES</u>

- 5.1 The <u>Preliminary Items</u> should be limited to tangible items that should be priced by the tenderer, are identifiable and can be priced separately and included in the interim valuations precisely. Such items may include such items as site office, notice boards, and other temporary works, otherwise items such as security for the Works which are primarily part of the Contractor's obligations should be included in the Contractor's rates.
- 52 The work items in the Bills of Quantities should be grouped into sections to distinguish between those parts of the Works which by nature, location, access, timing, or any other special characteristics may give rise to different methods of construction, or phasing of the Works, or considerations of cost. Such groups could be ground excavations, structures, external works, services, etc. General items common to all parts of the Works may be grouped as a separate section in the Bill of Quantities.
- 53 Quantities should be computed net from the Drawings, unless directed otherwise in the Contract, and no allowance should be made for bulking, shrinkage or waste. Quantitiesshouldberoundedupwhereappropriate.
- 5.4 Where the measured items a redeemed not to be exact because of the likelihood that the scope can change during the execution of the works, such items could be subject to re-measurement, the word "**provisional**" should be used to identify such cases. Where whole sections of the work items fall in this class, for example foundations, they should be labelled "Provisional Quantities" or "Provisional Items" so that the Tenderer/Contractor is advised up front that such items are subject to re-measurement to done before such work is cover-up.
- 55 All items that have not been measured and therefore not subject tot enders pricing should be listed in the Bills of Quantities as **Provisional Sums** for particular item or class of Work, which may be subject to a nominated subcontract or separate measurements at a later date during the execution of the works. For example, if it is deemed not possible to measure electrical works before going to tender because detail designs are not ready, a provisional sum can be allowed in the Bills of Quantities for "Installation of Electrical Works" to be executed later when actual design details are completed. To the extent not covered above, there should be in the Bills of Quantities a general provision for physical and financial contingencies made as a "Provisional Sum for

Contingencies" and "Provisional Sum for Fluctuations". The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises.

- 5.6 Provisional sums to cover specialized works normally carried out by Nominated Sub Contractors should be avoided and instead Bills of Quantities of the specialized Works should be included as a section of the main Bills of Quantities to be priced by the Main Contractor. The Main Contractor should be required to indicate the name(s) of the specialized firms he proposes to engage to carry out the specialized Works as his approved domestic sub-contractors. Only provisional sums to cover specialized Works by statutory authorities should be included in the Bills of Quantities.
- 5.7 A Daywork Schedule should be included if the probability of unforeseen work, outside the items included in the Bill of Quantities, is relatively high. To facilitate checking by the Procuring Entity of the realism of rates quoted by the tenderers, the Daywork Schedule should normally comprise:
 - i) A list of the various classes of labor, and materials for which basic.
 - ii) Daywork rates and prices for various categories of labor are to be inserted by the tenderer, together with a statement of the conditions under which the Contractor will be paid for Work executed on a Daywork basis.
 - iii) A percent a get o be entered by the tenderer agains teach basic Day work item.
 - iv) Subtotal amount for labor, materials and plant representing the Contractor's profit, overheads, supervision and other charges.
- 58 The Summary should contain a tabulation of the separate parts of the Bills of Quantities carried forward, with provisional sums for Daywork, Provisional sums and Contingencies, and provision for Total Costing. The last line should allow for tenderer to indicate any discounts before arriving at a total cost carried forward to the Form of Tender.

BILLS OF QUANTITIES

(a) <u>Preambles</u>

- 1. The method of measurement of completed work for payment shall be in accordance with *[insert the name of a standard reference guide, or full details of the methods to be used].*
- The Site is situated in (provide full description where the site is situated, coordinates from the nearest known landmark like a town and its size) ______ It is approximately ______ Kilometers from Nairobi. Access to the site shall be through ______,

Which is an existing public road. Any damage caused to the surfaces of this road shall be made good at the Contractor's expense. The Contractor shall visit the site and acquaint itself with its nature and position, the nature of the ground, substrata and other local conditions, positions of existing power, water and other services, access roads or any other limitations that might affect his cost or progress. No claim for extras shall be considered on account of lack of knowledge in this respect.

- 3. The Contractor shall obtain the Architect's approval on the siting of all temporary buildings, spoil heaps, temporary access path, and storage of materials. The Contractor shall also obtain the Architect approval and direction regarding the use of any materials found on the Site.
- 4. The drawings used in the preparation of these Bills of Quantities can be inspected at the offices of the Procuring Entity or Procuring Entity's Representative during normal working hours. Two sets of the Working Drawings shall be provided to the contractor but additional copies shall be provided at a cost to be determined by the Engineer.
- 5. The Contractor shall allow for the payment of all bank charges in connection with the procurement of Bank Guarantees and stamp charges in connection with this contract Agreement.
- 6. The Contractor shall carry out the various sections of the Works in such an order as the Architect May direct. The Procuring Entity reserves the right to occupy the Works by sections on completion provided that such occupation is considered to be both practical and reasonable and will not interfere with the Works. The Contractor shall allow any costs associated with such occupation.
- 7. The main Contractor will be fully responsible for paying his Sub-Contractor but the Procuring Entity reserves the right in very exceptional circumstances to make such payments direct in the interests of the project where the completion thereof might be jeopardized by any dispute or vicariousness between the Contractor and the Sub-Contractor involve.
- 8. The Contractor shall complete and deliver the Works in the period inserted in the Form of Tender as his time for completion of the Works from the date for Possession, to be agreed with the Engineer. The Contract Period is presumed to have been calculated making due allowance for seasonal inclement weather conditions. Noclaimfor extension of time due to the normal in clement weather for this area shall be entertained.
- 9. The Contractor shall, upon receiving instructions to proceed with the Works, draw up a Programme and Progress Chart setting out the order in which the Works are to be carried out, with the appropriate dates there of. This Chart shall be agreed with the Architect and no deviation from the order set out in it will be permitted without the written consent of the Engineer. The Contractor will be responsible for arranging the above programme with all his sub-Contractors and Specialties. The Contractor shall allow in his rates for carrying out this exercise, and for updating it as required.
- 10. The Contractor shall submit to the Architect on the first day of each week or such longer period as the Architect from time to time direct, a Progress Report and any information for the proceeding period, showing the progress during the period and the up-to-date cumulative progresson all important items of each section or portion of the Works.
- 11. The Contractor shall arrange for photographs of the Site to be taken by a professional photographer approved by the Engineer. The Photographs shall provide a record of the Site and adjacent are as prior to the commencement of the Works and shall cover such portion of the works in progress and completion as the Architect shall direct. All prints shall be full plate size, unmounted, and marked on the reverse side with the date of exposure, identification reference and brief description. The copyright of all photographs shall be vested in the Procuring Entity. The negatives and four prints from each negative shall be delivered to the Architect within two weeks of exposure.

- 12. Figured dimensions are to be followed in preference to dimensions scaled from the Drawings, but whenever possible dimensions are to be taken on the Site or from the buildings. Before any work is commenced by Sub-Contractors or Specialist Firms, dimensions must be checked on the site comparable dimensions shown on the drawings. The Contractor shall be responsible for the accuracy of such dimensions.
- 13. Prior to commencement of any work the Contractor is to ascertain from the relevant Authorities the exact position, depth and level of all existing electric cables, waterpipes or other services in the are aand he shall make whatever provisions may be required by the Authorities concerned for the support and protection of such services. Any damage or disturbance caused to any services shall be reported immediately to the Architect and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense. Where appropriate the Contractor shall open up the ground in advance of the main work by hand digging, if necessary, to locate precisely the position and details of the services which are likely to affect his operations.
- 14. The Contractor shall include in his prices for the transport of materials, workmen, etc./, to and from the site of the proposed works, at such hours and by such route as are permitted by the Authorities.
- 15. The Contractor will be required to make good, at his own expense and damage he may cause to the present road surface and pavements within or beyond the boundary of the Site, during the period of the works. All existing paths, storm water channels, etc., that may be destroyed or damaged during the progress of the Works shall be reinstated by the Contractor to the satisfaction of the Engineer.
- 16. The Contractor is to allow for complying with all instructions and regulations of the Police Authorities.
- 17. All water shall be fresh, clean and pure, free from earthly, vegetable or organic matter, acid or alkaline substance in solution. The Contractor shall provide at his own risk and cost all water for use in connection with the Works, (including works of sub-contractors). If need be, he shall make arrangements with the Local Water Authority for the installation of a separate meter for all water used by him throughout the Contract and pay all cost and fees in connection therewith. He shall also provide temporary storage tanks and tubing, etc., as may be necessary, and clear away at completion.
- 18. The Contractor shall provide all artificial lighting and power for his own use on the Works, (including Sub Contractor's) including all temporary connections, wiring, fittings, etc., and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection there with.
- 19. 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 giveh is whole time to the superintendence of the works. (Including works of sub contractors). Such Agent or Representative shall receive on behalf of the Contractordirections and instruction from the Engineer, and such directions and instructions shall be deemed to be given to the contractor in accordance with the Conditions of Contract. The Agent shall not be replaced without the specific approval of the Engineer.
- 20. The Contractor shall ensure that the safety of his work people and all authorized visitors to the site are protected at all times. In particular, there shall be the proper provision of guard-rails to scaffolding, protection against falling materials, tools on site, dust, nail and other sharp objects. The site shall be kept tidy and clear of dangerous rubbish. The Architect shall be empowered to suspend work on site should it be considered this condition is not being observed and no claim arising from such suspension will be allowed.
- 21. The are as available to the Contractor for workyards, offices and other facilities shall be directed by the Architect and any existing features to remain shall be protected from damage throughout the Contract Period and handed back in good condition when they are vacated at the end of the Contract. If additional areas are required, the contractorshallsourcethenatowncost.
- 22. The Contractor shall give the Architect reasonable notice of the intention to set out or take levels for any part of the Works so that arrangements may be made for checking the work. The accuracy of setting out and leveling shall be within the tolerances specified in the Specifications or on the Drawings. The checking of setting out or leveling by the Architect shall not relieve the Contractor of his duties or responsibilities under the Contract.
- 23. The Contractor must take steps necessary to safe guard and shall beheld fully responsible for any damage caused to existing and adjacent property, including buildings that are not a subject of demolition. He shall make good at his own cost damage to persons and property caused there on, and he shall indemnify the Procuring Entity against any loss or claim that may arise.

- 24. The Contractor shall take such steps and exercise such care and diligence as to minimize nuisance arising from dust, noise or any other cause to the occupiers of the existing and adjacent property. He must provide such temporary and special screens and tarpaulins or gummy bags, hoarding, barriers, warning signs etc. as he considers necessary and sufficient for the protection of the existing and adjacent property and or prevention of nuisance etc. as directed by Engineer.
- 25. The Contractors attention is drawn to the standards levy order which was amended on 15thOctober 1998.Legal notice No.154 of 1998. The Contractor is required to pay a monthly level of 0.2% of his factory price of construction works with effect from January 1999. Tenderer shall allow for this in the build-upo f his rates.
- 26. The Contractor shall provide temporary sheds, offices meshrooms, sanitary, accommodation and other temporary buildings for the use of the contractor and sub-contractors, including lighting furniture equipment and attendance.
- 27. Contractor shall provide/build labor camp sat areas to be agreed with the Engineer. Labor camps shall be complete with sanitary accommodation and fencing gates.
- 28. The Contractor must provide the necessary toilet facilities to the requirement and satisfaction of the Health Authorities and maintain the same in a thoroughly clean and sanitary condition and pay all conservancy fees during the period of the Works and remove when no longer required.
- 29. The Contractor shall provide at his own risk and cost all watching and lighting as necessary to safeguard the Works, Plant and materials against damage and theft.
- 30. The Contractor shall provide all necessary hoists, tackle, plant, equipment, vehicles, tools and appliances of every description for the due and satisfactory completion of the Works and shall remove the same on completion. All such plant, tools and equipment shall comply with all regulations in force throughout the period of the Contract and shall be altered or adopted during the Contract period as may be necessary to comply with any amendments in or additions to such regulations.
- 31. Provide, erect and maintain all necessary scaffolding, sufficiently strong and efficient for the due performance of the works, including Sub-Contract Works, provide special scaffolding as required by Sub-Contractors, alter and adopt all scaffolding as and when required during the Works, and remove on completion. No scaffolding is measured here in after and the Contractor must allow in his rates for this.
- 32. The Contractor shall take all necessary precautions such as temporary fencing, hoarding fans, planked footways, guard-rails gantries screen, etc., for the safe custody of the Works, materials and public protection and adjacent properties.
- 33. Cover up all and protect from damage, including damage from in clement weather, all finished work and unfixed materials, including that of Sub-Contractors, etc., to the satisfaction of the Architect until the completion of the Contract.
- 34. The Contractor shall, after completion of the works, at his own expense, remove and clear away all surplus excavated demolition materials, plant, rubbish and unused materials and shall leave the whole of the Site and Works in a clean and tidy state to the satisfaction of the Engineer, sheds, camps, etc. Particular care shall be taken to leave clean all floors and windows and tore move all paint and cement all rubbis hand dirt as it accumulates. The Contractor is to find his own dump and shall pay all charges in connection there with.
- 35. Concrete test cubes shall be prepared in a set of three, as described including testing fees, labor and materials, making molds, transport, handling, etc. Allow in your rates for making at least four cubes on each occasion, from different batches; the concrete being taken from the point of deposit.
- 36. The Contractors shall furnish at the earliest possible opportunity before work commences, and at his own cost, any samples of materials and workmanship that may be called for by the Architect for the approval or rejection, and any further samples in the case of rejection, until such samples are approved by the Engineer. Such samples, when approved, shall be the minimum standard for the work to which they apply. The procedure or submitting samples of materials for testing or approval and the method of marking for identification shall be as laid down by the Engineer. The Contractor shall allow in his Tender for such samples and tests, including those in connection with his Sub-Contractors work.
- 37. The Contractors attention is drawn to the Finance Bill of the year 2000/2001 on withholding tax on contractual

payment section 35(7)(i)(ii) which became effective on 1st July 2000. A 3% withholding tax will be applicable to all in terim payments exceeding Kshs..... for work done in respect of building or civil works. The contractor shall allow for any costs arising resulting there from in the build-up of rates.

- 38. Blasting will only be allowed with the express permission of the Architect 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 Architect governing the use and storage of explosives.
- 39. The National Construction Authority is a state corporation established under the national construction authority Act No.14 of 2011. The broad Mandate of the Authority is to over see the construction industry and coordinate its development. The National Construction Authority Regulations 2014 with an effective date of 6thJune 2014, regulation 25, Allow 0.5% of the tender sum/contract sum for construction levy.
- 40. The Contractor attention is drawn to Finance Bill of 1993 where VAT was introduced in all contracts for construction services. The tenderer is also drawn to VAT Act Cap 476 clause 19(9). The tenderer must allow for VAT 1.19 as instructed else where.
- 41. The contractor shall allow and pay for all insurance to cover risks and indemnities required Items 17 and 18 of the Conditions of contract and also specified in the Special Conditions of Contract.

BILL NO. 2: WORK ITEMS

(organized appropriately into work sections, such as foundations, walls/structure, finishes, doors and windows, mechanical installations. etc.

Bill No 2 - (Name of Section e.g. Foundations).

Item no.	Description	Unit	Quantity	Rate	Amount
Total for	Bill No. 2 (carried forward to S	ummary, p. <u>)</u>			

Item no.	Description	Unit	Nominal quantity	Rate	Amount	
	Subtotal					
	Allow percent ^a of Subtotal for Contractor's overhead, profit, etc., in accordance with paragraph 3 (b) above.					
	Total for Daywork (carried forward to Dayw	vork Sum	mary, p)			

Bill No. 3: Schedule of Daywork Rates - Labor

a. To be entered by the Tenderer.

Item no.	Description	Unit	Nominal quantity	Rate	Extended amount
			-		
	Subtotal			1	
	Allow percent a. of Subtotal for Contr				
	profit, etc., in accordance with paragraph 4				
	Total for Daywork: Materials (carried forw	vard to Da	ywork Summ	nary, p.	

Bill No. 4: Schedule of Daywork Rates - Materials

a. To be entered by the Tenderer.

Bill No. 5: Schedule of Daywork Rates - Contractor's Equipment

Item no.	Description	Nominal quantity (hours)	Basic hourly rental rate	Extended amount
	Allow _ percent ^a of Subtotal for			
	Contractor's overhead, profit, etc., in			
	accordance with paragraph 5 above.			
Total for]	Daywork: Contractor's Equipment (carried	forward to Daywork S	ummary, p.)	

a. To be entered by the Tenderer.

Bill No. 6: Daywork Summary

	Amount ^a	% Ei	Currency
		Foreign	
1. Total for Daywork: Labor			
2. Total for Daywork: Materials			
3. Total for Daywork: Contractor's Equipment			
Total for Daywork (Provisional Sum) (carried forward to			
Summary of Bills of Quantities, p)			

Bill No. 7: Provisional Sums

Bill no.	Item no.	Description	Amount
1			
2			
3			
4			
etc.			
Total for	Specified Pro	ovisional Sums (carried forward to Grand Summary	

GRAND SUMMARY

SUMMARY ITEMS	Page	Amount
Bill No. 1: Preliminary Items		
Bill No. 2: Work Items		
Bill No 3: Daywork Summary		
Bill No 4: Provisional Sums		
Subtotal of Bills No 1-4		
Allow for any Discounts ⁱ		
TOTAL TENDER PRICE Carried forward to Form of Tender		

(i) If a percentage used, it should be indicated on which Bill No. items but on Bill No.4 – Provisional Sums.

SECTION VI - SPECIFICATIONS

Notes for preparing Specifications

- 1. Specifications must be drafted to present a clear and precise statement of the required standards of materials, and workmanshipfor tenderers to respond realistically and competitively to the requirements of the Procuring Entity and ensure responsiveness of tenders. The Specifications should require that all materials, plant, and other supplies to be permanently incorporated in the Works be new, unused, of the most recent or current models, and incorporating all recent improvements in design and materials unless provided otherwise in the Contract. Where the Contractor is responsible for the design of any part of the permanent Works, the extent of his obligations must be stated.
- 2. Specifications from previous similar projects are useful and may not be necessary to re-write specifications for every Works Contract.
- 3. There are considerable advantages in standardizing **General Specifications** for repetitive Works in recognized public sectors, such as high ways, urban housing, irrigation and water supply. The General Specifications should cover all classes of workmanship, materials and equipment commonly involved in constructions, although not necessarily to be used in a particular works contract. Deletions or addenda should then adapt the General Specifications to the particular Works.
- 4. Caremust be taken in drafting Specifications to ensure they are not restrictive. In the Specifications of standards for materials, plant and workmanship, existing Kenya Standards should be used as much as possible, otherwise recognized international standards may also be used.
- 5. The Procuring Entity should decide whether technical solutions to specified parts of the Works are to be permitted. Alternatives are appropriate in cases where obvious (and potentially less costly) alternatives are possible to the technical solutions indicated in tender documents for certain elements of the Works, taking into consideration the comparative specialized advantage of potential tenderers.
- 6. The Procuring Entity should provide a description of the selected parts of the Works with appropriate reference to Drawings, Specifications, Bills of Quantities, and Design or Performance criteria, stating that the alternative solutions shall be at least structurally and functionally equivalent to the basic design parameters and Specifications.
- 7. Such alternative solutions shall be accompanied by all information necessary for a complete evaluation by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, proposed construction methodology, and other relevant details. Technical alternatives permitted in this manner shall be considered by the Procuring Entity each on its own merits and independently of whether the tenderer has priced the item as described in the Procuring Entity's design included with the tender documents.

SECTION VII - DRAWINGS

<u>Note</u> A list of drawings should be inserted here. The actual drawings including Site plans should be annexed in a separate booklet.

PART III - THE CONDITIONS OF CONTRACT AND CONTRACT

SECTION VIII - GENERAL CONDITIONS OF CONTRACT (GCC)

[Name of Procuring Entity]

[Name of Contract]

[Architect Name and Address]

General Conditions of Contract

1. GENERALPROVISIONS

1.1 Definitions

In this Contract, except where context otherwise requires, the following terms shall be interpreted as indicated below. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

"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.

"Base Date" means a date 30 day prior to the submission of tenders.

"Bill of Quantities" means the priced and completed Bill of Quantities forming part of the tender.

"Completion Date" meansthedateofcompletionoftheWorksascertifiedbytheEngineer.

"Contract Price" means the price defined in the contract and there after as adjusted in accordance with the provisions of the Contract.

"Contract" means the agreement entered into between the Procuring Entity and the Contractor as recorded in the Agreement Form and signed by the parties including all attachments and appendices thereto and all documents incorporated by reference therein to execute, complete, and maintain the Works.

"Contractor's Documents" means the calculations, computer programs and other software, progress reports, drawings, manuals, models and other documents of a technical nature (if any) supplied by the Contractor under the Contract.

"Contractor's Equipment" means all apparatus, machinery, vehicles and other things required for the execution and completion of the Works and the remedying of any defects. However, Contractor's Equipment excludes Temporary Works, Procuring Entity's Equipment (if any), Plant, Materials and any other things intended to form or forming part of the Permanent Works.

"Contractor's Personnel" means the Contractor's Representative and all personnel whom the Contractor utilizes on Site, who may include the staff, labor and other employees of the Contractor and of each Subcontractor; and any other personnel assisting the Contractor in the execution of the Works.

"Contractor's Representative" means the person named by the Contractor in the Contractor appointed from time to timeby the Contractor who acts on behalf of the Contractor.

"Contractor" means the person(s) named as contractor in the Form of Tender accepted by the Procuring Entity.

"Cost" means expenditure reasonably incurred (or to be incurred) by the Contractor, whether on or off the Site, including overhead and similar charges, but does not include profit.

"Day" means a calendar day and "year" means 365 days.

"Dayworks" means Work inputs subject to payment on a time basis for labour and the associated materials and plant.

"Defect" means any part of the Works not completed in accordance with the Contract.

"Defects Liability Certificate" means the certificate issued by Architect upon correction of defects by the Contractor.

"Defects Liability Period" means the period named in the Special Conditions of Contract and calculated from the Completion Date, within which the contractor is liable for any defects that may develop in the handed over works.

"Defects Notification Period" means the period for notifying defects in the Works oraSection(asthecasemaybe) under Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects], which extends over the days stated in the Special Conditions of Contract.

"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.

"Final Payment Certificate" means the payment certificate issued under Sub-Clause 14.13 [Issue of Final Payment Certificate].

"Final Statement" means the statement defined in Sub-Clause 14.11 [ApplicationforFinalPaymentCertificate].

"Force Majeure" is defined in Clause19 [Force Majeure].

"Foreign Currency" means a currency of another country (not Kenya) in which part (or all) of the Contract Price is payable, but not the Local Currency.

"Goods" means Contractor's Equipment, Materials, Plant and Temporary Works, or any of them as appropriate.

"Interim Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and Payment], other than the Final Payment Certificate.

"Laws" means all national legislation, statutes, ordinances, and regulations and by-laws of any legally constituted public authority.

"Letter of Acceptance" means the letter of formal acceptance of a tender, signed by Procuring Entity, including any annexed memoranda comprising agreements between and signed by both Parties.

"Local Currency" means the currency of Kenya.

"Materials" means things of all kinds (other than Plant) intended to form or forming part of the Permanent Works, including the supply-only materials (if any) to be supplied by the Contractor under the Contract.

"Notice of Dissatisfaction" means the notice given by either Party to the other under Sub-Clause 20.3 indicating its dissatisfaction and intention to commence arbitration.

"Special Conditions of Contract" means the pages completed by the Procuring Entity entitled Special Conditions of Contract which constitute Part A of the Special Conditions.

"Party" means the Procuring Entity or the Contractor, as the context requires.

"Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and Payment].

"Performance Certificate" means the certificate issued under Sub-Clause 11.9 [Performance Certificate].

"Performance Security" means the security (or securities, if any) under Sub-Clause 4.2 [Performance Security].

"Permanent Works" means the permanent works to be executed by the Contractor under the Contract.

"Plant" means the apparatus, machinery and other equipment intended to form or forming part of the Permanent Works, including vehicles purchased for the Procuring Entity and relating to the construction or operation of the Works.

"Procuring Entity's Equipment" means the apparatus, machinery and vehicles (if any) made available by the

Procuring Entity for the use of the Contract or in the execution of the Works, as stated in the Specification; but does not include Plant which has not been taken over by the Procuring Entity.

"**Procuring Entity's Personnel**" means the Engineer, the Engineer, the assistants and all other staff, labor and other employees of the Architect and of the Procuring Entity; and any other personnel notified to the Contractor, by the Procuring Entity or the Engineer, as Procuring Entity's Personnel.

"Procuring Entity" means the Entity named in the Special Conditions of Contract.

"Engineer" is the person named in the Appendix to Conditions of Contract (or any other competent person appointed by the Procuring Entity and notified to the Contractor, to act in replacement of the Engineer) who is responsible for supervising the execution of the Works and administering the Contract and shall be an "Architect" or a "Quantity Surveyor" registered under the Architects and Quantity Surveyors Act Cap 525 or an "Engineer" registered under Engineers Registration Act Cap 530.

"Engineer" means the person appointed by the Procuring Entity to act as the Architect for the purposes of the Contract and named in the Special Conditions of Contract, or other person appointed from time to time by the Procuring Entity and notified to the Contractor

"**Provisional Sum**" means a sum (if any) which is specified in the Contract as a provisional sum, for the execution of any part of the Works or for the supply of Plant, Materials or services under Sub-Clause 13.5 [Provisional Sums].

"Retention Money" means the accumulated retention moneys which the Procuring Entity retains under Sub-Clause 14.3 [Application for Interim Payment Certificates] and pays under Sub-Clause 14.9 [Payment of Retention Money].

"Schedules" means the document(s) entitled schedules, completed by the Contractor and submitted with the Form of Tender, as included in the Contract.

"Section" means a part of the Works specified in the Special Conditions of Contract as a Section (if any)

"Site Investigation Reports" are those reports that may be included in the tendering documents which a ref actual and interpretative about the surface and sub-surface condition sat the Site.

"Site" means the places where the Permanent Works are to be executed, including storage and working areas, and to which Plant and Materials are to be delivered, and any other places as may be specified in the Contract as forming part of the Site.

"Specification" means the document entitled specification, as included in the Contract, and any additions and modifications to the specification in accordance with the Contract. Such document specifies the Works.

"Start Date" or "Commencement Date" is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with the Site possession date(s).

"Statement" means a statement submitted by the Contractor as part of an application, under Clause 14 [Contract Price and Payment], for a payment certificate.

"Subcontractor" means any person named in the Contract as a subcontractor, or any person appointed as a subcontractor, for a part of the Works.

"Taking-Over Certificate" means a certificate issued under Clause 10 [Procuring Entity's Taking Over].

"Temporary Works" means all temporary works of every kind (other than Contractor's Equipment) required on Site for the execution and completion of the Permanent Works and the remedying of any defects.

"Temporary works" means works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation of the Works.

"Tender" means the Form of Tender and all other documents which the Contractor submitted with the Form of Tender, as included in the Contract.

"Tests after Completion" means the tests (if any) which are specified in the Contract and which are carried out in

accordance with the Specification after the Works or a Section (as the case may be) are taken over by the Procuring Entity.

"Testson Completion" means the tests which are specified in the Contractor agreed by both Parties or instructed as a Variation, and which are carried out under Clause 9 [Tests on Completion] before the Works or a Section (as the case may be) are taken over by the Procuring Entity.

"Time for Completion" means the time for completing the Works or a Section (as the case may be) as stated in the Special Conditions of Contract (with any extension calculated from the Commencement Date.

"Unforeseeable" means not reasonably foreseeable by an experienced contractor by the Base Date.

"Variation" means any change to the Works, which is instructed or approved as a variation under Clause 13 [Variations and Adjustments].

"Works" means the items the Procuring Entity requires the Contractor to undertake as defined in the Appendix to Conditions of Contract. **"Works" may** also mean the Permanent Works and the Temporary Works, or either of them as appropriate.

1.2 Interpretation

In the Contract, except where the context requires otherwise:

- a) Words indicating one gender include all genders;
- b) words indicating the singular also include the plural and words indicating the plural also include the singular;
- c) provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing;
- d) "written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record; and

The marginal words and other headings shall not be taken into consideration in the interpretation of these Conditions.

1.3 Communications

- 13.1 Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices, requests and discharges, these communications shall be:
 - a) In writing and delivered by hand (against receipt), sent by mail or courier, or transmitted using any of the agreed systems of electronic transmission as stated in the Special Conditions of Contract; and
 - b) delivered, sentor transmitted to the address or the recipient's communications as stated in the Special Conditions of Contract. However:
 - i) if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and
 - ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the addressfromwhichtherequestwasissued.
- 1.32 Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to a Party, by the other Party or the Engineer, a copy shall be sent to the Architect or the other Party, as the case may be.

1.4 Law and Language

- 1.4.1 The Contract shall be governed by the laws of Kenya.
- 1.4.2 The ruling language of the Contract shall be English.

1.5 Priority of Documents

The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:

- a) The Contract Agreement,
- b) The Letter of Acceptance,
- c) The Special Conditions Part A,
- d) the Special Conditions Part B
- e) the General Conditions of Contract
- f) the Form of Tender,
- g) the Specifications and Bills of Quantities
- h) the Drawings, and
- i) the Schedules and any other documents forming part of the Contract.

If an ambiguity or discrepancy is found in the documents, the Architect shall issue any necessary clarification or instruction.

1.6 Contract Agreement

The Parties shall enter into a Contract Agreement within 14 days after the Contractor receives the Contract Agreement, unless the Special Conditions establish otherwise. The Contract Agreement shall be based upon the formannexed to the Special Conditions. The costs of stamp duties and similar charges (if any) imposed by law in connection with entry into the Contract Agreement shall be borne by the Procuring Entity.

1.7 Assignment

The Contractor shall not assign the whole or any part of the Contract or any benefit or interest in or under the Contract. However, the contractor:

- a) May as sign the whole or any part with the prior consent of the Procuring Entity, and
- b) may, as security in favor of a bank or financial institution, assign its right to moneys due, or to become due, under the Contract.

1.8 Care and Supply of Documents

- 1.8.1 The Specifications and Drawings shall be in the custody and care of the Procuring Entity.Unless otherwise stated in the Contract, two copies of the Contract and of each subsequent Drawings and Bills of Quantities shall be supplied to the Contractor, who may make or request further copies at the cost of the Contractor.
- 1.82 Each of the Contractor's Documents shall be in the custody and care of the Contractor, unless and until taken over bythe Procuring Entity. Unless otherwise stated in the Contract, the Contractor shall supply to the Architect two copies of each of the Contractor's Documents.
- 1.83 The Contractor shall keep, on the Site, a copy of the Contract, publications named in the Specification, the Contractor's Documents (if any), the Drawings and Variations and other communications given under the Contract. The Procuring Entity's Personnel shall have the right of access to all these documents at all reasonable times.
- 1.84 If a Party becomes aware of an error or defect in a document which was prepared for use in executing the Works, theParty shall promptly give notice to the other Party of such error or defect.

1.9 Timely provision of Drawings or Instructions

- 1.9.1 The Contractor shall give notice to the Architect whenever the Works are likely to be delayed or disrupted if any necessary drawing or instruction is not issued to the Contractor within a particular time, which shall be reasonable. The notice shall include details of the necessary drawing or instruction, details of why and by when it should be issued, and the nature and amount of the delay or disruption likely to be suffered if it is late.
- 1.92 If the Contractor suffers delay and/or incurs Cost as a result of a failure of the Architect to issue the notified drawing or instruction within a time which is reasonable and is specified in the notice with supporting details, the Contractor shall give a further notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and

- b) payment of any other associated costs accrued, which shall be included in the Contract Price.
- 193 After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 19.4 However, if and to the extent that the Architect failure was caused by any error or delay by the Contractor, including an error in, or delay in the submission of, any of the Contractor's Documents, the Contractor shall not be entitled to such extension of time, or costs accrued.

1.10 Procuring Entity's Use of Contractor's Documents

- 1.10.1 Asagreed between the Parties, the Contractor shall retain the copyright and other intellectual property rights in the Contractor's Documents and other design documents made by (or on behalf of) the Contractor.
- 1.10.2 The Contractor shall be deemed (by signing the Contract) to give to the Procuring Entity a non-terminable transferable non-exclusive royalty-free license to copy, use and communicate the Contractor's Documents, including making and using modifications of them. This license shall:
 - a) apply throughout the actual or intended working life (whichever is longer) of the relevant parts of the Works,
 - b) entitle any person in proper possession of the relevant part of the Works to copy, use and communicate the Contractor's Documents for the purposes of completing, operating, maintaining, altering, adjusting, repairing and demolishing the Works, and
 - c) in the case of Contractor's Documents which are in the form of computer programs and other software, permit their use on any computer on the Site and other places as envisaged by the Contract, including replacements of any computers supplied by the Contractor.
- 1.103 The Contractor's Documents and other design documents made by (or on behalf of) the Contractor shall not, without the Contractor's consent, be used, copied or communicated to a third party by (or on behalf of) the Procuring Entityf or purposes other than those permitted under Sub-Clause 1.10.2.

1.11 Contractor's Use of Procuring Entity's Documents

As agreed between the Parties, the Procuring Entity shall retain the copyright and other intellectual property rights in the Specification, the Drawings and other documents made by (or on behalf of) the Procuring Entity. The Contractor may, at his cost, copy, use, and obtain communication of these documents for the purposes of the Contract. They shall not, without the Procuring Entity's consent, be copied, used or communicated to a third party by the Contractor, except as necessary for the purposes of the Contract.

1.12 Confidential Details

- 1.12.1 The Contractor's and the Procuring Entity's Personnel shall ensure confidentiality at all times. The confidentiality shall survive termination or completion of the contract. They shall disclose all such confidential and other information as may be reasonably required in order to verify compliance with the Contract and allow its proper implementation.
- 1.122 The Contractor's and the Procuring Entity's Personnel shall also treat the details of the Contract as private and confidential, except to the extent necessary to carry out their respective obligations under the Contract or to comply with applicable Laws. Each of them shall not publish or disclose any particulars of the Works prepared by the other Party without the previous agreement of the other Party. However, the Contractor shall be permitted to disclose any publicly available information, or information otherwise required to establish his qualifications to compete for other projects.

1.13 Compliance with Laws

The Contractor shall, in performing the Contract, comply with applicable Laws. Unless otherwise stated in the Special Conditions of Contract:

a) The Procuring Entity shall have obtained (or shall obtain) the planning, zoning, building permitor similar permission for the Permanent Works, and any other permissions described in the Specifications as having been (or to be) obtained by the Procuring Entity; and the Procuring Entity shall indemnify and hold the Contractor harmless against and from the consequences of any failure to do so; and

b) the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licenses and approvals, as required by the Laws in relation to the execution and completion of the Works and the remedying of any defects; and the Contractor shall indemnify and hold the Procuring Entity harmless against and from the consequences of any failure to do so, unless the Contractor is impeded to accomplish these actions and shows evidence of its diligence.

1.14 Joint and Several Liability

If the Contractor constitutes (under applicable Laws) a joint venture, consortium or other unincorporated grouping of two or more persons:

- a) These persons shall be deemed to be jointly and severally liable to the Procuring Entity for the performance of the Contract;
- b) these persons shall notify the Procuring Entity of their leader who shall have authority to bind the Contractor and each of these persons; and
- c) the Contractor shall not alter its composition or legal status without the prior consent of the Procuring Entity.

1.15 Inspections and Audit by the Procuring Entity

Pursuant to paragraph 2.2(e). of Appendix B to the General Conditions, the Contractor shall permit and shall cause its subcontractors and sub-consultants to permit, the Public Procurement Regulatory Authority, Procuring Entity and/or persons appointed or designated by the Government of Kenya 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 Procuring Entity if requested by the Procuring Entity. The Contractor's and its Subcontractors' and sub-consultants' attention is drawn to Sub-Clause 15.6 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Procuring Entity's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of in eligibility pursuant to the Procuring Entity's prevailing sanctions procedures).

2 THE PROCURING ENTITY

2.1 Right of Access to the Site

- 21.1 The Procuring Entity shall give the Contractor right of access to, and possession of, all parts of the Site within the time (or times) stated in the **Special Conditions of Contract.** The right and possession may not be exclusive to the Contractor. If, under the Contract, the Procuring Entity is required to give (to the Contractor) possession of anyfoundation, structure, plant or means of access, the Procuring Entity shall do so in the time and manner stated in the Specification. However, the Procuring Entity may withhold any such right or possession until the Performance Security has been received.
- 2.12 If no such time is stated in the Special Conditions of Contract, the Procuring Entity shall give the Contractor right of access to, and possession of, the Site within such times as required to enable the Contractor to proceed without disruption in accordance with the programme submitted under Sub-Clause 8.3 [Programme].
- 213 If the Contractor suffers delay and/or incurs Cost as a result of a failure by the Procuring Entity to give any such right or possession within such time, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- 2.1.4 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 215 However, if and to the extent that the Procuring Entity's failure was caused by any error or delay by the Contractor, including an error in, or delay in the submission of, any of the Contractor's Documents, the Contractor shall not be entitled to such extension of time, Cost or profit.

2.2 Permits, Licenses or Approvals

- 22.1 The Procuring Entity shall provide, at the request of the Contractor, such reasonable assistance as to allow the Contractor to obtain properly:
 - a) Copies of the Laws of Kenya which are relevant to the Contract but are not readily available, and
 - b) any permits, licenses or approvals required by the Laws of Kenya:
 - i) which the Contractor is required to obtain under Sub-Clause 1.13 [Compliance with Laws],
 - ii) for the delivery of Goods, including clearance through customs, and
 - iii) for the export of Contractor's Equipment when it is removed from the Site.

2.3 Procuring Entity'sPersonnel

The Procuring Entity shall be responsible for ensuring that the Procuring Entity's Personnel and the Procuring Entity's other contractor son the Site:

- a) co-operate with the Contractor's efforts under Sub-Clause 4.6 [Co-operation], and
- b) take action ssimilar to those which the Contractor is required to take under sub-paragraphs (a), (b) and (c) of Sub-Clause 4.8 [Safety Procedures] and under Sub-Clause 4.18 [Protection of the Environment].

24 Procuring Entity's Financial Arrangements

The Procuring Entity shall make and maintain all necessary financial arrangements which will enable the Procuring Entity to pay the Contract Price punctually (as estimated at that time) in accordance with Clause14 [Contract Price and Payment].

3. THE ENGINEER

3.1 Architect Duties and Authority

- **31.1** The Procuring Entity shall appoint the Architect who shall carry out the duties as signed to him in the Contract. The Architect staff shall include suitably qualified Assistants and other professionals who are competent to carry out these duties. The Architect Name and Address shall be provided in the **Special Conditions of Contract.**
- 3.12 The Architect shall have no authority to amend the Contract.
- 3.13 The Architect May exercise the authority attributable to the Architect as specified in or necessarily to be implied from the Contract. If the Architectis required to obtain the approval of the Procuring Entity before exercising a specified authority, the requirements shall be as stated in the Special Conditions of Contract. The Procuring Entity shall promptly inform the Contractor of any change to the authority attributed to the Engineer.
- 3.1.4 However, whenever the Architect exercises a specified authority for which the Procuring Entity's approvalis required, then (for the purposes of the Contract) the contractor shall require the Architect toprovideevidence of such approval before complying with the instruction.
- 3.1.5 Except as otherwise stated in these Conditions:
 - a) Whenever carrying out duties or exercising authority, specified in or implied by the Contract, the Architect shallbedeemedtoactfortheProcuring Entity;
 - b) the Architect has no authority to relieve either Party of any duties, obligations or responsibilities under the Contract;
 - c) any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by the Architect (including absence of disapproval) shall not relieve the Contractor from any responsibility he has under the Contract, including responsibility for errors, omissions, discrepancies and non-compliances; and
 - d) anyact by the Architect in response to a Contractor's request shall be notified in writing to the Contractor within 14 days of receipt.

3.1.6 The following provisions shall apply:

The Architect shall obtain the specific approval of the Procuring Entity before taking action under the-following Sub-Clauses of these Conditions:

- a) Sub-Clause 4.12: agreeing or determining an extension of time and/or additional cost.
- b) Sub-Clause 13.1: instructing a Variation, except;
 - i) In an emergency situation as determined by the Engineer, or

ii) If such a Variation would increase the Accepted Contract Amount by less than the percentage specified in the **Special Conditions of Contract.**

- c) Sub-Clause 13.3: Approving a proposal for Variation submitted by the Contractor in accordance with Sub Clause 13.1 or 13.2.
- d) Sub-Clause13.4: Specifying the amount payable in each of the applicable three currencies.
- 3.1.7 Not withstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forth with comply, despite the absence of approval of the Procuring Entity, with any such instruction of the Engineer. The Architect shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Procuring Entity.

3.2 Delegation by the Engineer

- 32.1 The Architect may from time to time assign duties and delegate authority to assistants and may also revoke such assignment or delegation. These assistants may include a resident Engineer, and/or independent inspectors appointed to inspect and/ or test items of Plant and/or Materials. The assignment, delegation or revocation shall be in writing and shall not take effect until copies have been received by both Parties. However, unless otherwise agreed by both Parties, the Architect shall not delegate the authority to determine any matter in accordance with Sub-Clause 3.5 [Determinations].
- 322 Each assistant, to whom duties have been assigned or authority has been delegated, shall only be authorized to issue instructions to the Contractor to the extent defined by the delegation. Any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by an assistant, in accordance with the delegation, shall have the same effect as though the act had been an act of the Engineer. However:
 - a) Any failure to disapprove any work, Plant or Materials shall not constitute approval, and shall therefore not prejudice the right of the Architect to reject the work, Plant or Materials;
 - b) If the Contractor questions any determination or instruction of an assistant, the Contractor may refer the matter to the Engineer, who shall promptly confirm, reverse or vary the determination or instruction.

33 Instructions of the Engineer

- 33.1 The Architect may issue to the Contractor (at anytime) instructions and additional or modified Drawings which may benecessary for the execution of the Works and the remedying of any defects, all in accordance with the Contract. The Contractor shall only take instructions from the Engineer, or from an assistant to whom the appropriate authority has been delegated under Clause 3.2.1.
- 332 The Contractor shall comply with the instructions given by the Architect or delegated assistant, on any matter related to the Contract. Whenever practicable, their instructions shall be given in writing. If the Architec tor a delegated assistant:
 - a) Gives an oral instruction,
 - b) receives a written confirmation of the instruction, from (or on behalf of) the Contractor, within two working days after giving the instruction, and

c) does not reply by issuing a written rejection and/or instruction within two working days after receiving the confirmation,

Then the confirmation shall constitute the written instruction of the Architect or delegated assistant (as the case may be).

3.4 Replacement of the Engineer

If the Procuring Entity intends to replace the Engineer, the Procuring Entity shall, in not less than 21 days before the intended date of replacement, give notice to the Contractor of the name, address and relevant experience of the intended person to replace the Engineer.

3.5 Determinations

- 35.1 Whenever these Conditions provide that the Architect shall proceed in accordance with this Sub-Clause3.5 to agreeor determine any matter, the Architect shall consult with each Party in an endeavor to reach agreement. If agreement is not achieved, the Architect shall make a fair determination in accordance with the Contract, taking due regard of all relevant circumstances.
- 3.5.1 The Architect shall give notice to both Parties of each agree mentor determination, with supporting particulars, within 30 days from the receipt of the corresponding claim or request except when otherwise specified. Each Party shall give effect to each agreement or determination unless and until revised under Clause 20 [Claims, Disputes and Arbitration].

4. THE CONTRACTOR

4.1 Contractor's General Obligations

- 4.1.1 The Contractor shall design (to the extent specified in the Contract), execute and complete the Works in accordance with the Contract and with the Architect instructions, ands hall remedy any defects in the Works.
- 4.12 The Contractor shall provide the Plant and Contractor's Documents specified in the Contract, and all Contractor's Personnel, Goods, consumables and other things and services, whether of a temporary or permanent nature, required in and for this design, execution, completion and remedying of defects.
- 4.1.3 All equipment, material, and services to be incorporated in or required for the Works shall have their origin in any eligible source country.
- 4.1.4 The Contractor shall be responsible for the adequacy, stability and safety of all Site operations and of all methods of construction. Except to the extent specified in the Contract, the Contractor (i) shall be responsible for all Contractor's Documents, Temporary Works, and such design of each item of Plant and Materials as is required for the item to be in accordance with the Contract, and (ii) shall not otherwise be responsible for the designor specification of the Permanent Works.
- 4.15 The Contractor shall, whenever required by the Engineer, submit details of the arrangements and methods which the Contractor proposes to adopt for the execution of the Works. No significant alteration to these arrangements and methods shall be made without this having previously been notified to the Engineer.
- 4.1.6 If the Contract specifies that the Contractor shall design any part of the Permanent Works, then unless otherwise stated in the Special Conditions:
 - a) The Contractor shall submit to the Architect the Contractor's Documents for this part in accordance with the procedures specified in the Contract;
 - b) these Contractor's Documents shall be in accordance with the Specification and Drawings, shall be written in the language for communications defined in Sub-Clause 1.4 [Law and Language], and shall include additional information required by the Architect to add to the Drawings for co-ordination of each Party's designs;
 - c) the Contractor shall be responsible for this part and it shall, when the Works are completed, befit for such purposes for which the part is intended as are specified in the Contract; and
 - d) prior to the commencement of the Tests on Completion, the Contractor shall submit to the Architectthe "as-built" documents and, if applicable, operation and maintenance manuals in accordance with the Specification and in sufficient detail for the Procuring Entity to operate, maintain, dismantle, reassemble, adjust and repair this part of the Works. Such part shall not be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections] until these documents and manuals have been submitted to the Engineer.

4.2 **Performance Security**

- 421 The Contractor shall obtain (at his cost) a Performance Security for proper performance, in the amount stated in the **Special Conditions of Contract** and denominated in the currency (ies) of the Contract or in a freely convertible currency acceptable to the Procuring Entity. If an amount is not stated in the Special Conditions of Contract, this Sub-Clause shall not apply.
- 422 The Contractor shall deliver the Performance Security to the Procuring Entity within 30 days after receiving the Notification of Award and shall send a copy to the Engineer. The Performance Security shall be issued by a reputable bank selected by the Contractor and shall be in the form annexed to the Special Conditions, as stipulated by the Procuring Entity in the Special Conditions of Contract, or in another form approved by the Procuring Entity.
- 423 The Contractor shall ensure that the Performance Security is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects. If the terms of the Performance Security specify its expiry date, and the Contractor has not become entitled to receive the Performance Certificate by the date 30 days prior to the expiry date, the Contractor shall extend the validity of the Performance Security until the Works have been completed and any defects have been remedied.
- 424 The Procuring Entity shall not make a claim under the Performance Security, except for amounts to which the Procuring Entity is entitled under the Contract.
- 425 The Procuring Entity shall indemnify and hold the Contractor harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from a claim under the Performance Security to the extent to which the Procuring Entity was not entitled to make the claim.
- 42.6 The Procuring Entity shall return the Performance Security to the Contractor within 14 days after receiving a copyof the Taking-Over Certificate.
- 427 Without limitation to the provisions of the rest of this Sub-Clause, whenever the Architect determines an addition or a reduction to the Contract Price as a result of a change in cost and/ or legislation, or as a result of a Variation, amounting to more than 25 percent of the portion of the Contract Price payable in a specific currency, the Contractor shall at the Architect request promptly increase, or may decrease, as the case may be, the value of the Performance Security in that currency by an equal percentage.

43 Contractor's Representative

- **43.1** The Contractor shall appoint the Contractor's Representative and shall give him all authority necessary to act on the Contractor's behalf under the Contract. The Contractor's Representative's Name and Address shall be provided in the **Special Conditions of Contract**.
- 432 Unless the Contractor's Representative **is named in the Contract**, the Contractor shall, prior to the Commencement Date, submit to the Architect for consent the name and particulars of the person the Contractor proposes to appoint as Contractor's Representative. If consent is with held or subsequently revoked in terms of Sub-Clause 6.9 [Contractor's Personnel], or if the appointed person fails to act as Contractor's Representative, the Contractor shall similarly submit the name and particulars of an other suitable person for such appointment.
- 433 The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the Contractor's Representative or appoint are placement.
- 43.4 The whole time of the Contractor's Representative shall be given to directing the Contractor's performance of the Contract. If the Contractor's Representative is to be temporarily absent from the Site during the execution of the Works, a suitable replacement person shall be appointed, subject to the Architect prior consent, and the Architect shall be notified accordingly.
- 435 The Contractor's Representative shall, on behalf of the Contractor, receive instructions under Sub-Clause 3.3 [Instructions of the Engineer].
- 43.6 The Contractor's Representative may delegate any powers, functions and authority to any competent person, and may at any time revoke the delegation. Any delegation or revocation shall not take effect until the Architect has received prior notice signed by the Contractor's Representative, naming the person and specifying the powers, functions and authority being delegated or revoked.
- 43.7 The Contractor's Representative shall be fluent in the language for communications defined in Sub-Clause1.4

[Law and Language]. If the Contractor's Representative's delegates are not fluent in the said language, the Contractor shall make competent interpreter savailable during all working hours in a number deemed sufficient by the Engineer.

4.4 Sub-contractors

- 44.1 The Contractor shall not subcontract the whole of the Works. The contractor may however subcontract the works as provided in Clause 34.2.
- 442 The Contractor shall be responsible for the acts or defaults of any Subcontractor, his agents or employees, as if theyweret heacts or defaults of the Contractor. Unless otherwise stated in the Special Conditions:
 - a) The Contractor shall not be required to obtain consent to suppliers solely of Materials, or to a subcontract for which the Subcontractor is named in the Contract;
 - b) The prior consent of the Procuring Entity shall be obtained to other proposed Subcontractors;
 - c) the Contractor shall give the Procuring Entity not less than 14 days' notice of the intended date of the commencement of each Subcontractor's work, and of the commencement of such work on the Site; and
 - d) each subcontract shall include provisions which would entitle the Procuring Entity to require the subcontract to be assigned to the Procuring Entity under Sub-Clause 4.5 [Assignment of Benefit of Subcontract] (if or when applicable) or in the event of termination under Sub-Clause 15.2 [Termination by Procuring Entity].
- 443 The Contractor shall ensure that the requirements imposed on the Contractor by Sub-Clause 1.12 [Confidential Details] apply equally to each Subcontractor.
- 4.4.4 Wher epracticable, the Contractor shall give fair and reasonable opportunity for contractors from Kenya to be appointed as Subcontractors.

45 Assignment of Benefit of Subcontract

If a Subcontractor's obligations extend beyond the expiry date of the relevant Defects Notification Period and the Engineer, prior to this date, instructs the Contractor to assign the benefit of such obligations to the Procuring Entity, then the Contractor shall do so. Unless otherwise stated in the assignment, the Contractor shall have no liability to the Procuring Entity for the work carried out by the Subcontractor after the assignment takes effect.

4.6 Co-operation

- 46.1 The Contractor shall, as specified in the Contract or as instructed by the Engineer, allow appropriate opportunities for carrying out work to:
 - a) The Procuring Entity's Personnel,
 - b) Any other contractors employed by the Procuring Entity, and
 - c) The personnel of any legally constituted public authorities, who may be employed in the execution on or near the Site of any work not included in the Contract.
- 4.62 Any such instruction shall constitute a Variation if and to the extent that it cause sthe Contractor to suffer delays and/ortoincur Unforeseeable Cost. Services for these personnel and other contractors may include the use of Contractor's Equipment, Temporary Works or access arrangements which are the responsibility of the Contractor.
- 4.63 If, under the Contract, the Procuring Entity is required to give to the Contractor possession of any foundation, structure, plant or means of access in accordance with Contractor's Documents, the Contractor shall submit such documents to the Architect in the time and manner stated in the Specification.

4.7 Setting Out of the Works

- 4.7.1 The Contractor shall set out the Works in relation to original points, lines and levels of reference specified in the Contractor notified by the Engineer. The Contractor shall be responsible for the correct positioning of all parts of the Works, and shall rectify any error in the positions, levels, dimensions or alignment of the Works.
- 4.72 The Procuring Entity shall be responsible for any errors in these specified or notified items of reference, but the Contractor shall use reasonable efforts to verify their accuracy before they are used.

- 4.73 If the Contractor suffers delay and/or incurs Cost from executing work which was necessitated by an errorin these items of reference, and an experienced contractor could not reasonably have discovered such error and avoided this delay and/ or Cost, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such costs accrued, which shall be included in the Contract Price.
- 4.7.4 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) whether and (if so) to what extent the error could not reasonably have been discovered, and (ii) the matters described in sub-paragraphs (a) and (b) above related to thise.

4.8 Safety Procedures

The Contractor shall:

- a) Comply with all applicable safety regulations,
- b) Takec are for the safety of all persons entitled to be on the Site,
- c) Use reasonable efforts to keep the Site and Works clear of unnecessary obstruction so as to avoid danger to these persons,
- d) provide fencing, lighting, guarding and watching of the Works until completion and taking over under Clause 10 [Procuring Entity's Taking Over], and
- e) provide any Temporary Works (including roadways, footways, guards and fences) which may be necessary, because of the execution of the Works, for the use and protection of the public and of owners and occupiers of adjacent land.

4.9 Quality Assurance

- 49.1 The Contractor shall institute a quality assurance system to demonstrate compliance with the requirements of the Contract. The system shall be in accordance with the details stated in the Contract. The Architect shall be entitled to audit any aspect of the system.
- 4.92 Details of all procedures and compliance documents shall be submitted to the Architectf or information before each design and execution stage is commenced. When any document of a technical nature is issued to the Engineer, evidence of the prior approval by the Contractor itself shall be apparent on the document itself.

Compliance with the quality assurance system shall not relieve the Contractor of any of his duties, obligations or responsibilities under the Contract.

4.10 Site Data

- 4.10.1 The Procuring Entity shall have made available to the Contractor for his information, prior to the Base Date, all relevant data in the Procuring Entity's possession on sub-surface and hydrological conditions at the Site, including environmental aspects. The Procuring Entity shall similarly make available to the Contractor all such data which come into the Procuring Entity's possession after the Base Date. The Contractor shall be responsible for interpreting all such data.
- 4.10.2 To the extent which was practicable (taking account of cost and time), the Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Tender or Works. To the same extent, the Contractor shall be deemed to have inspected and examined the Site, its surroundings, the above data and other available information, and to have been satisfied before submitting the Tender as to all relevant matters, including (without limitation):
 - a) The form and nature of the Site, including sub-surface conditions,
 - b) the hydrological and climatic conditions,
 - c) the extent and nature of the work and Goods necessary for the execution and completion of the Works and the remedying of any defects,
 - d) the Laws, procedures and labour practices of Kenya, and
 - e) the Contractor's requirements for access, accommodation, facilities, personnel, power, transport, water and other services.

4.11 Sufficiency of the Accepted Contract Amount

4.11.1 TheContractor shall be deemed to:

- a) Have satisfied itself as to the correctness and sufficiency of the Accepted Contract Amount, and
- b) have based the Accepted Contract Amount on the data, interpretations, necessary information, inspections, examinations and satisfaction as to all relevant matters referred to in Sub-Clause 4.10 [Site Data].
- 4.112 Unless otherwise stated in the Contract, the Accepted Contract Amount covers all the Contractor's obligations under the Contract (including those under Provisional Sums, if any) and all things necessary for the proper execution and completion of the Works and the remedying of any defects.

4.12 Unforeseeable Physical Conditions

- 4.12.1 In this Sub-Clause, "physical conditions" means natural physical conditions and man-made and other physical obstructions and pollutants, which the Contractor encounters at the Site when executing the Works, including sub-surface and hydrological conditions but excluding climatic conditions.
- 4.12.2 If the Contractor encounters adverse physical conditions which he considers to have been Unforeseeable, the Contractor shall give notice to the Architect as soon as practicable.
- 4.12.3 This notice shal ldescribe the physical conditions, so that they can be inspected by the Architect and shall set out the reasons why the Contractor considers them to be Unforeseeable. The Contractor shall continue executing the Works, using such proper and reasonable measures as are appropriate for the physical conditions, and shall comply with any instructions which the Architect may give. If an instruction constitutes a Variation, Clause 13 [Variations and Adjustments] shall apply.
- 4.12.4 If and to the extent that the Contractor encounters physical conditions which are Unforeseeable, gives such a notice, and suffers delay and/or incurs Cost due to these conditions, the Contractor shall be entitled subject to notice under Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost, which shall be included in the Contract Price.
- 4.125 Upon receiving such notice and inspecting and/or investigating these physical conditions, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) whether and (if so) to what extent these physical conditions were Unforeseeable, and (ii) the matters described in sub-paragraphs (a) and (b) above related to this extent.
- 4.126 However, before additional Cost is finally agreed or determined under sub-paragraph (ii), the Architect may also review whether other physical conditions in similar parts of the Works (if any) were more favorable than could reasonably have been foreseen when the Contractor submitted the Tender. If and to the extent that these more favorable conditions were encountered, the Architect may proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the reductions in Cost which were due to these conditions, which may be included (as deductions) in the Contract Price and Payment Certificates. However, the net effect of all adjustments under sub-paragraph (b) and all these reductions, for all the physical conditions encountered in similar parts of the Works, shall not result in a net reduction in the Contract Price.
- 4.12.7 The Architect shall take account of any evidence of the physical conditions foreseen by the Contractorwhen submitting the Tender, which shall be made available by the Contractor, but shall not be bound by the Contractor's interpretation of any such evidence.

4.13 **Rights of Way and Facilities**

Unless otherwise specified in the Contract the Procuring Entity shall provide effective access to and possession of the Site including special and/or temporary rights-of-way which are necessary for the Works. The Contractor shall obtain, at his risk and cost, any additional rights of way or facilities out side the Site which he may require for the purposes of the Works.

4.14 Avoidance of Interference

4.14.1 The Contractor shall not interfere unnecessarily or improperly with:

- a) The convenience of the public, or
- b) The access to and use and occupation of all roads and foot paths, irrespective of whether they are public or in the possession of the Procuring Entity or of others.
- 4.14.2 The Contractor shall indemnify and hold the Procuring Entity harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from any such unnecessary or improper interference.

4.15 Access Route

- 4.15.1 The Contractor shall be deemed to have been satisfied as to the suitability and availability of access routes to the Site at Base Date. The Contractor shall use reasonable efforts to prevent any road or bridge from being damaged by the Contractor's traffic or by the Contractor's Personnel. These efforts shall include the proper use of appropriate vehicles and routes.
- 4.15.2 Except as otherwise stated in these Conditions:
 - a) The Contractor shall (as be tween the Parties) be responsible for any maintenance which may be required for his use of access routes;
 - b) the Contractor shall provide all necessary signs or directions along access routes, and shall obtain any permission which may be required from the relevant authorities for his use of routes, signs and directions;
 - c) the Procuring Entity shall not be responsible for any claims which may arise from the use or otherwise of any access route;
 - d) the Procuring Entity does not guarantee the suitability or a vailability of particular access routes; and
 - e) Costs due to non-suitability or non-availability, for the use required by the Contractor, of access routes shall be borne by the Contractor.

4.16 Transport of Goods

Unless otherwise stated in the Special Conditions:

- a) the Contractor shall give the Architect not less than 21 days' notice of the date on which any Plant or a major item of other Goods will be delivered to the Site;
- b) the Contractor shall be responsible for packing, loading, transporting, receiving, unloading, storing and protecting all Goods and other things required for the Works; and
- c) the Contractor shall indemnify and hold the Procuring Entity harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from the transport of Goods and shall negotiate and pay all claims arising from their transport.

4.17 Contractor's Equipment

The Contractor shall be responsible for all Contractor's Equipment. When brought on to the Site, Contractor's Equipment shall be deemed to be exclusively intended for the execution of the Works. The Contractor shall not remove from the Site any major items of Contractor's Equipment without the consent of the Engineer. However, consent shall not be required for vehicles transporting Goods or Contractor's Personnel off Site.

4.18 **Protection of the Environment**

- 4.18.1 The contractor shall comply with the applicable environmental laws, regulations and policies.
- 4.182 The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and to limit damage and nuisance to people and property resulting from pollution, noise and other results of his operations.
- 4.183 The Contractor sorderhall ensure that emissions, surfaced is charges and effluent from the Contractor's activities shall not exceed the values stated in the Specification or prescribed by applicable Laws.

4.19 Electricity, Water and Gas

4.19.1 The Contractor shall, except as stated below, be responsible for the provision of all power, water and other

services he may require for his construction activities and to the extent defined in the Specifications, for the tests.

- 4.19.2 The Contractor shall be entitled to use for the purposes of the Works such supplies of electricity, water, gas and other services as may be available on the Site and of which details and prices are given in the Specifications. The Contractor shall, at his risk and cost, provide any apparatus necessary for his use of these services and for measuring the quantities consumed.
- 4.19.3 The quantities consumed and the amounts due (at these prices) for such services shall be agreed or determined by the Architect in accordance with Sub-Clause 2.5 [Procuring Entity's Claims] and Sub-Clause 3.5 [Determinations]. The Contractor shall pay these amounts to the Procuring Entity.

4.20 Procuring Entity's Equipment and Free-Issue Materials

- 420.1 The Procuring Entity shall make the Procuring Entity's Equipment (if any) available for the use of the Contractor in the execution of the Works in accordance with the details, arrangements and prices stated in the Specification. Unless otherwise stated in the Specification:
 - a) The Procuring Entitys hall be responsible for the Procuring Entity's Equipment, except that
 - b) the Contractor shall be responsible for each item of Procuring Entity's Equipment whilst any of the Contractor's Personnel is operating it, driving it, directing it or in possession or control of it.
- 420.1 The appropriate quantities and the amounts due (at such stated prices) for the use of Procuring Entity's Equipment shall be agreed or determined by the Architect in accordance with Sub-Clause 2.5 [Procuring Entity's Claims] and Sub-Clause3.5 [Determinations]. The Contractor shall pay these amounts to the Procuring Entity.
- 4202 The Procuring Entity shall supply, free of charge, the "free-issue materials" (if any) in accordance with the details stated in the Specification. The Procuring Entity shall, at his risk and cost, provide these materials at the time and place specified in the Contract. The Contractor shall then visually inspect them and shall promptly give notice to the Architect of any shortage, defect or default in these materials. Unless otherwise agreed by both Parties, the Procuring Entity shall immediately rectify the notified shortage, defector default.
- 420.3 After this visual inspection, the free-issue materials shall come under the care, custody and control of the Contractor. The Contractor's obligations of inspection, care, custody and control shall not relieve the Procuring Entity of liability for any shortage, defect or default not apparent from a visual inspection.

4.21 Progress Reports

- 421.1 Unless otherwise stated in the Special Conditions, monthly progress reports shall be prepared by the Contractor and submitted to the Architect in six copies. The first report shall cover the period up to the end of the first calendar month following the Commencement Date. Reports shall be submitted monthly thereafter, each within 7 days after the last day of the period to which it relates.
- 4212 Reporting shall continue until the Contractor has completed all work which is known to be outstanding at the completion date stated in the Taking-Over Certificate for the Works. Each report shall include:
 - a) charts and detailed descriptions of progress, including each stage of design (if any), Contractor's Documents, procurement, manufacture, delivery to Site, construction, erection and testing; and including these stages for work by each nominated Subcontractor (as defined in Clause 5 [NominatedSubcontractors]),
 - b) photographs showing the status of manufacture and of progress on the Site;
 - c) for the manufacture of each main item of Plant and Materials, the name of the manufacturer, manufacture location, percentage progress, and the actual or expected dates of:
 - i) commencement of manufacture,
 - ii) Contractor's inspections,
 - iii) tests, and
 - iv) shipment and arrival at the Site;
 - d) the details described in Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment];
 - e) copies of quality assurance documents, test results and certificates of Materials;

- f) list of notices given under Sub-Clause 2.5 [Procuring Entity's Claims] and notices given under Sub- Clause 20.1 [Contractor's Claims];
- g) safety statistics, including details of any hazardous incidents and activities relating to environmental aspects and public relations; and
- h) comparison so factual and planned progress, with details of any events or circumstances which may jeopardize the completion in accordance with the Contract, and the measures being (or to be) adopted to overcome delays.

4.22 Security of the Site

Unless otherwise stated in the Special Conditions:

- a) The Contractor shall be responsible for keeping unauthorized persons off the Site, and
- b) authorized persons shall be limited to the Contractor's Personnel and the Procuring Entity's Personnel; and to any other personnel notified to the Contractor, by the Procuring Entity or the Engineer, as authorized personnel of the Procuring Entity's other contractors on the Site.

4.23 Contractor's Operations on Site

- 423.1 The Contractor shall confine his operations to the Site, and to any additional areas which may be obtained by the Contractor and agreed by the Architect as additional working areas. The Contractor shall take all necessary precautions to keep Contractor's Equipment and Contractor's Personnel within the Site and these additional areas, and to keep them off adjacentl and.
- 4232 During the execution of the Works, the Contractor shall keep the Site free from all unnecessary obstruction and shall store or dispose of any Contractor's Equipment or surplus materials. The Contractor shall clear away and remove from the Site any wreckage, rubbish and Temporary Works which are no longer required.
- 4233 Upon the issue of a Taking-Over Certificate, the Contractor shall clear away and remove, from that part of the Site and Works to which the Taking-Over Certificate refers, all Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works. The Contractor shall leave that part of the Site and the Works in a clean and safe condition. However, the Contractor may retain on Site, during the Defects Notification Period, such Goods as are required for the Contractor to fulfil obligations under the Contract.

4.24 Fossils

- 424.1 All fossils, coins, articles of value or antiquity, and structures and other remains or items of geological or archaeological interest found on the Site shall be placed under the care and authority of the Procuring Entity. The Contractor shall take reasonable precautions to prevent Contractor's Personnel or other persons from removing or damaging any of these findings.
- 424.2 The Contractor shall, upon discovery of any such finding, promptly give notice to the Engineer, who shall issue instructions for dealing with it. If the Contractor suffers delay and/or incurs Cost from complying with the instructions, the Contractor shall give a further notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost, which shall be included in the Contract Price.
 After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

5. NOMINATED SUBCONTRACTORS

5.1 Definition of "nominated Subcontractor"

In this Contract, "nominated Subcontractor" means a Subcontractor:

- a) Who is nominated by the Procuring Entity, or
- b) Contractor has nominated as a Subcontractor subject to Sub-Clause 5.2 [Objection to Notification].

52 Objection to Nomination

The Contractor shall not be under any obligation to employ a nominated Subcontractor against whom the Contractor raises reasonable objection by notice to the Procuring Entity as soon as practicable, with supporting particulars. An objection shall be deemed reasonable if it arises from (among other things) any of the following matters, unless the Procuring Entity agrees in writing to indemnify the Contractor against and from the consequences of the matter:

- a) there are reasons to believe that the Subcontractor does not have sufficient competence, resources or financial strength;
- b) the nominated Subcontractor does not accept to indemnify the Contractor against and from any negligence or misuse of Goods by the nominated Subcontractor, his agents and employees; or
- c) the nominated Subcontractor does not accept to enter into a subcontract which specifies that, for the subcontracted work (including design, if any), the nominated Subcontractor shall:
 - i) undertake to the Contractor such obligations and liabilities as will enable the Contractor to discharge his obligations and liabilities under the Contract;
 - ii) indemnify the Contractor against and from all obligations and liabilities arising under or in connection with the Contract and from the consequences of any failure by the Subcontractor to perform these obligations or to fulfil these liabilities, and
 - iii) be paid only if and when the Contractor has received from the Procuring Entity payments for sums due under the Subcontract referred to under Sub-Clause 5.3 [Payment to nominated Subcontractors].

5.3 Payments to nominated Subcontractors

The Contractor shall pay to the nominated Subcontractor the amounts shown on the nominated Subcontractor's invoices approved by the Contractor which the Architect certifies to be due in accordance with the subcontract. These amounts plus other charges shall be included in the Contract Price in accordance with sub-paragraph (b) of Sub-Clause 13.5 [Provisional Sums], except as stated in Sub-Clause 5.4 [Evidence of Payments].

5.4 Evidence of Payments

- 54.1 Before issuing a Payment Certificate which includes an amount payable to a nominated Subcontractor, the Architect may request the Contractor to supply reasonable evidence that the nominated Subcontractor has received all amounts due in accordance with previous Payment Certificates, less applicable deductions for retention or otherwise. Unless the Contractor:
 - (a) Submits this reasonable evidence to the Engineer, or
 - (b) i) Satisfies the Architect in writing that the Contractor is reasonably entitled to withhold or refuse to pay these amounts, and
 - ii) Submits to the Architect reasonable evidence that the nominated Subcontractor has been notified of the Contractor's entitlement, then the Procuring Entity may (at his sole discretion) pay, direct to the nominated Subcontractor, part or all of such amounts previously certified (less applicable deductions) as are due to the nominated Subcontractor and for which the Contractor has failed to submit the evidence described in sub-paragraphs (a) or (b) above. The Contractor shall then repay, to the Procuring Entity, the amount which the nominated Subcontractor was directly paid by the Procuring Entity.

6 STAFF AND LABOR

6.1 Engagement of Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall make arrangements for the engagement of all staff and labor, local or otherwise, and for their payment, feeding, transport, and, when appropriate, housing. The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labor with appropriate qualifications and experience from sources within Kenya.

6.2 Rates of Wages and Conditions of Labor

621 The Contractor shall pay rates of wages, and observe conditions of labor, which are not lower than those established for the trade or industry where the work is carried out. If no established rates or conditions are applicable, the Contractor shall pay rates of wages and observe conditions which are not lower than the general level of wages and conditions observed locally by Procuring Entity's whose trade or industry is similar to that of theContractor.

622 The Contractor shall inform the Contractor's Personnel about their liability to pay personal income taxes in Kenya in respect of such of their salaries, wages, allowances and any benefits as are subject to tax under the Laws of Kenya for the time being in force, and the Contractor shall perform such duties in regard to such deductions there of as may be imposed on him by such Laws.

6.3 Persons in the Service of Procuring Entity

The Contractor shall not recruit, or attempt to recruit, staff and labour from amongst the Procuring Entity's Personnel.

6.4 Lab or Laws

The Contractor shall comply with all the relevant labour Laws applicable to the Contractor's Personnel, including Laws relating to their employment, employment of children, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights. The Contractor shall require his employees to obey all applicable Laws, including those concerning safety at work.

65 Working Hours

Nowork shall be carried out on the Site on locally recognized days of rest, or outside the normal working hours stated in the **Special Conditions of Contract**, unless:

- a) Otherwise stated in the Contract,
- b) The Architect gives consent, or
- c) The work is unavoidable, or necessary for the protection of life or property or for the safety of the Works, in which case the Contractor shall immediately advise the Engineer, provided that work done outside the normal working hours shall be considered and paid for as overtime.

6.6 Facilities for Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities on site for the Contractor's Personnel. The Contractor shall also provide facilities for the Procuring Entity's Personnel as stated in the Specifications. The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Permanent Works.

6.7 Health and Safety

- 67.1 The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with loca lhealth authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the Site and at any accommodation for Contractor's and Procuring Entity's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.
- 6.72 The Contractor shall appoint an accident prevention officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility and shall have the authority to issue instructions and take protective measures to prevent accidents. Throughout the execution of the Works, the Contractor shall provide what ever is required by this person to exercise this responsibility and authority.
- 6.73 The Contractor shall send, to the Engineer, details of any accident as soon as practicable after itsoccurrence. The Contractor shall maintain records and make reports concerning health, safety and welfare of persons, and damage to property, as the Architect may reasonably require.
- 6.7.4 The Contractor shall conduct an awareness programme on HIV and other sexually transmitted diseases via an approved service provider and shall undertake such other measures taken to reduce the risk of the transfer of these diseases between and among the Contractor's Personnel and the local community, to promote early diagnosis and to assist affected individuals.

6.8 Contractor's Superintendence

68.1 Throughout the execution of the Works, and as long thereafter as is necessary to fulfil the Contractor's obligations, the Contractor shall provide all necessary super intendence to plan, arrange, direct, manage, inspect and test the work.

682 Superintendence shall be given by a sufficient number of persons having adequate knowledge of the language for communications (defined in Sub-Clause 1.4 [Law and Language]) and of the operations to be carried out (including the methods and techniques required, the hazards likely to be encountered and methods of preventing accidents), for the satisfactory and safe execution of the Works.

6.9 Contractor's Personnel

- 69.1 The Contractor's Personnel shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Contractors Key personnel shall be named in the Special Conditions of Contract. The Architect may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Contractor's Representative if applicable, who:
 - a) Persists in any misconduct or lack of care,
 - b) Carries out duties in competently or negligently,
 - c) fails to conform with any provisions of the Contract,
 - d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment, or
 - e) based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Works.
- 692 If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.

6.10 Records of Contractor's Personnel and Equipment

The Contractor shall submit, to the Engineer, details showing the number of each class of Contractor's Personnel and of each type of Contractor's Equipment on the Site. Details shall be submitted each calendar month, in a form approved by the Engineer, until the Contractor has completed all work which is known to be outstanding at the completion date stated in the Taking-Over Certificate for the Works.

6.11 Disorderly Conduct

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst the Contractor's Personnel, and to preserve peace and protection of persons and property on and near the Site.

6.12 Foreign Personnel

- 6.12.1 The Contractor shall not employ foreign personnel unless the contractor demonstrates that there are no Kenyans with the required skills.
- 6.122 The Contractor shall be responsible for the return of any foreign personnel to the place where they were recruited or to their domicile. In the event of the death in Kenya of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

6.13 Supply of Water

The Contractor shall, having regard to local conditions, provide on the Sitea n adequate supply of drinking and other water for the use of the Contractor's Personnel.

6.14 Measures against Insect and Pest Nuisance

The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

6.15 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Laws of Kenya, onsite, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal there of by Contractor's Personnel.

6.16 Prohibition of Forced or Compulsory Labour

The Contractor shall not employ forced labor, which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of

involuntary or compulsory labor, such as indentured labor, bonded labor or similar labor-contracting arrangements.

6.17 Prohibition of Harmful Child Labor

The Contractor shall not employ children in a manner that is economically exploitative, or is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development. Where the relevant labour laws of Kenya have provisions for employment of minors, the Contractor shall follow those laws applicable to the Contractor. Children below the age of 18 years shall not be employed in dangerous work.

6.18 Employment Records of Workers

The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment].

6.19 Workers' Organizations

The Contractor shall comply with the relevant labor laws that recognize workers' rights to form and to join workers' organizations of their choosing without interference.

6.20 Non-Discrimination and Equal Opportunity

The Contractor shall base the labour employment on the principle of equal opportunity and fair treatment and shall not discriminate with respect to aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, promotion, termination of employ mentor retirement, and discipline.

7. PLANT, MATERIALS AND WORKMANSHIP

7.1 Manner of Execution

The Contractor shall carry out the manufacture/assemble of plant, the production and manufacture of Materials, and all other execution of the Works:

- a) In the manner (if any) specified in the Contract,
- b) in a proper workman like and careful manner, in accordance with recognized good practice, and
- c) with properly equipped facilities and non-hazardous Materials, except as otherwise specified in the Contract.

7.2 Samples

The Contractor shall submit the following samples of Materials, and relevant information, to the Architect for consent prior to using the Material sin or for the Works:

- a) manufacturer's standard samples of Materials and samples specified in the Contract, all at the Contractor's cost, and
- b) additional samples instructed by the Architect as a Variation.

Each sample shall be labeled as to origin and intended use in the Works.

73 Inspection

73.1 The Procuring Entity's Personnel shall at all reasonable times:

- a) Have full access to all parts of the Site and to all places from which natural Materials are being obtained, and
- b) during production, manufacture and construction (at the Site and elsewhere), be entitled to examine, inspect, measure and test the materials and workmanship, and to check the progress of manufacture of Plant and production and manufacture of Materials.
- 732 The Contractor shall give the Procuring Entity's Personnel full opportunity to carry out these activities,

including providing access, facilities, permissions and safety equipment. No such activity shall relieve the Contractor from any obligation or responsibility.

733 The Contractor shall give notice to the Architect whenever any work is ready and before it is covered up, put out of sight, or packaged for storage or transport. The Architect shall then either carry out the examination, inspection, measurement or testing without unreasonable delay, or promptly give notice to the Contractor that the Architect does not require to do so. If the Contractor fails to give the notice, he shall, if and when required by the Engineer, uncover the work and there after reinstate and make good, all at the Contractor's cost.

7.4 Testing

- 7.4.1 This Sub-Clause shall apply to all tests specified in the Contract.
- 7.42 Except as otherwise specified in the Contract, the Contractor shall provide all apparatus, assistance, documents and other information, electricity, equipment, fuel, consumables, instruments, labor, materials, and suitably qualified and experienced staff, as are necessary to carry out the specified tests efficiently. The Contractor shall agree, with the Engineer, the time and placef ort he specified testing of any Plant, Materials and other parts of the Works.
- 7.4.3 The Architect may, under Clause 13 [Variations and Adjustments], vary the location or details of specified tests, or instruct the Contractor to carry out additional tests. If these varied or additional tests show that the tested Plant, Materials or workmanship is not in accordance with the Contract, the cost of carrying out this Variation shall be borne by the Contractor, not withstanding other provisions of the Contract.
- 7.4.4 The Architect shall give the Contractor not less than 24 hours' notice of the Architect intention to attend the tests. If the Architect does not attend at the time and place agreed, the Contractor may proceed with the tests, unless otherwise instructed by the Engineer, and the tests shall then be deemed to have been made in the Architect presence.
- 745 If the Contractor suffers delay and/ or incurs Cost from complying with these instructions or as a result of a delay for which the Procuring Entity is responsible, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- 74.6 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 7.4.7 The Contractor shall promptly forward to the Architect duly certified reports of the tests. When thespecified tests have be enpassed, the Architect shall endorse the Contractor's test certificate, or issue a certificate to him, to that effect. If the Architect has not attended the tests, he shall be deemed to have accepted the readings as accurate.

75 Rejection

- 75.1 If, as a result of an examination, inspection, measurement or testing, any Plant, Materials or workmanship is found to be defective or otherwise not in accordance with the Contract, the Architect may reject the Plant, Materials or workmanship by giving notice to the Contractor, with reasons. The Contractor shall then promptly make good the defect and ensure that the rejected item complies with the Contract.
- 752 If the Architect requires this Plant, Materials or workmanship to be retested, the tests shall be repeated under the same terms and conditions. If the rejection and retesting cause the Procuring Entity to incur additional costs, the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay these costs to the Procuring Entity.

7.6 Remedial Work

- 7.6.1 Not withstanding any previous test or certification, the Architect may instruct the Contractorto:
 - a) Remove from the Site and replace any Plant or Materials which is not in accordance with the Contract,
 - b) remove and re-execute any other work which is not in accordance with the Contract, and
 - c) execute any work which is urgently required for the safety of the Works, whether because of an

- 7.62 The Contractor shall comply with the instruction within a reasonable time, which shall be the time (if any) specified in the instruction, or immediately if urgency is specified under sub-paragraph (c).
- 7.63 If the Contractor fails to comply with the instruction, the Procuring Entity shall be entitled to employ and pay other persons to carry out the work. Except to the extent that the Contractor would have been entitled to payment for the work, the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay to the Procuring Entity all costs arising from this failure.
- 7.64 If the contractor repeatedly delivers defective work, the Procuring Entity may consider termination in accordance with Clause 15.

7.7 Ownership of Plant and Materials

Except as otherwise provided in the Contract, each item of Plant and Materials shall become the property of the Procuring Entity at whichever is the earlier of the following times, free from liens and other encumbrances:

- a) When it is in corporated in the Works;
- b) when the Contractor is paid the corresponding value of the Plant and Materials under Sub-Clause 8.10 [Payment for Plant and Materials in Event of Suspension].

7.8 Royalties

Unless otherwise stated in the Specification, the Contractor shall pay all royalties, rents and other payments for:

- a) Natural materials obtained from outside the Site, and
- b) the disposal of material from demolitions and excavations and of other surplus material (whether natural orman-made), except to the extent that disposal are as within the Site are specified in the Contract.

8 COMMENCEMENT, DELAYS AND SUSPENSION

8.1 Commencement of Works

- 8.1.1 Except as otherwise specified in the Special Conditions of Contract, the Commencement Date shall be the date at which the following precedent condition shave all been fulfilled and the Architect notification recording the agreement of both Parties on such fulfilment and instructing to commence the Work is received by the Contractor:
 - a) Signature of the Contract Agreement by both Parties, and if required, approval of the Contract by relevant authorities of Kenya;
 - b) except if otherwise specified in the Special Conditions of Contract, effective access to and possession of the Site given to the Contractor together with such permission(s) under (a) of Sub-Clause 1.13 [Compliance with Laws] as required for the commencement of the Works.
 - c) Receipt by the Contractor of the Advance Payment under Sub-Clause 14.2 [Advance Payment] provided that the corresponding bank guarantee has been delivered by the Contractor.
- 8.12 If the said Architect instruction is not received by the Contractor within 180 days from his receipt of the Letter of Acceptance, the Contractor shall be entitled to terminate the Contract under Sub-Clause1 6.2 [Terminationby Contractor].
- 8.13 The Contractor shall commence the execution of the Works as soon as is reasonably practicable after the Commencement Date and shal lthen proceed with the Works with due expedition and without delay.

8.2 Time for Completion

The Contractor shall complete the whole of the Works, and each Section (if any), within the Time for Completion for the Works or Section (as the case may be), including:

- a) Achieving the passing of the Testson Completion, and
- b) completing all work which is stated in the Contract as being required for the Works or Section to be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections].

83 Programme

- 83.1 The Contractor shall submit a detailed time programme to the Architect within 1 4 days after receiving the notice under Sub-Clause 8.1 [Commencement of Works]. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress or with the Contractor's obligations. Each programme shall include:
 - a) The order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage of design (if any), Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing,
 - b) each of these stages for work by each nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]),
 - c) the sequence and timing of inspections and tests specified in the Contract, and
 - d) a supporting report which includes:
 - i) a general description of the methods which the Contractor intends to adopt, and of the major stages, in the execution of the Works, and
 - ii) details showing the Contractor's reasonable estimate of the number of each class of Contractor's Personnel and of each type of Contractor's Equipment, required on the Site for each major stage.
- 832 Unless the Engineer, within 14 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Procuring Entity's Personnel shall be entitled to rely upon the programme when planning their activities.
- 833 The Contractor shall promptly give notice to the Architect of specific probable future events or circumstances which may adversely affect the work, increase the Contract Price or delay the execution of the Works.
- 83.4 If, at anytime, the Architect gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contractor to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Architect in accordance with this Sub-Clause.

8.4 Extension of Time for Completion

- 84.1 The Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to an extension of the Time for Completion if and to the extent that completion for the purposes of Sub-Clause 10.1 [Taking Over of the Works and Sections] is or will be delayed by any of the following causes:
 - a) a Variation (unless an adjustment to the Time for Completion has been agreed under Sub-Clause 13.3 [Variation Procedure]) or other substantial change in the quantity of an item of work included in the Contract,
 - b) a cause of delay giving an entitlement to extension of time under a Sub-Clause of these Conditions,
 - c) exceptionally adverse climatic conditions,
 - d) Unforeseeable shortages in the availability of personnel or Goods caused by epidemic or governmental actions, or
 - e) any delay, impediment or prevention caused by or attributable to the Procuring Entity, the Procuring Entity's Personnel, or the Procuring Entity's other contractors.
- 842 If the Contractor considers itself to be entitled to an extension of the Time for Completion, the Contractor shall give notice to the Architect in accordance with Sub-Clause 20.1 [Contractor's Claims]. When determining each extension of time under Sub-Clause 20.1, the Architect shall review previous determinations and may increase, but shall not decrease, the total extension of time.

8.5 Delays Caused by Authorities

If the following conditions apply, namely:

- a) The Contractor has diligently followed the procedures laid down by the relevant legally constituted public authorities in Kenya,
- b) These authorities delay or disrupt the Contractor's work, and
- c) the delay or disruption was Unforeseeable, then this delay or disruption will be considered as a cause of delay under sub-paragraph (b) of Sub-Clause 8.4 [Extension of Time for Completion].

8.6 Rate of Progress

8.6.1 If, at anytime:

- a) Actual progress is too slow to complete within the Time for Completion, and/or
- b) Progress has fallen (or will fall) behind the current programme under Sub-Clause 8.3 [Programme], other than as a result of a cause listed in Sub-Clause 8.4 [Extension of Time for Completion], then the Architect may instruct the Contractor to submit, under Sub-Clause 8.3 [Programme], a revised programme and supporting report describing the revised methods which the Contractor proposes to adopt in order to expedite progress and complete within the Time for Completion.
- 8.62 Unless the Architect notifies otherwise, the Contractor shall adopt these revised methods, which mayrequire increases in the working hours and/or in the numbers of Contractor's Personnel and/or Goods, at the risk and cost of the Contractor. If these revised methods cause the Procuring Entity to incur additional costs, the Contractor shall subject to notice under Sub-Clause 2.5 [Procuring Entity's Claims] pay these costs to the Procuring Entity, in addition to delay damages (if any) under Sub-Clause 8.7 below.
- 863 Additional costs of revised methods including acceleration measures, instructed by the Architect to reduce delays resulting from causes listed under Sub-Clause 8.4 [Extension of Time for Completion] shall be paid by the Procuring Entity, without generating, however, any other additional payment benefit to the Contractor.

8.7 Delay Damages

- 87.1 If the Contractor fails to comply with Sub-Clause 8.2 [Time for Completion], the Contractor shall subject to notice under Sub-Clause 2.5 [Procuring Entity's Claims] pay delay damages to the Procuring Entity for this default. These delay damages shall be the sum stated in the **Special Conditions of Contract**, which shall be paid for everyday which shall elapse between the relevant Time for Completion and the date stated in the taking-Over Certificate. However, the total amount due under this Sub-Clause shall not exceed the maximum amount of delay damages (if any) stated in the Special Conditions of Contract.
- 872 These delay damages shall be the only damages due from the Contractor for such default, other than in the event of termination under Sub-Clause 15.2 [Termination by Procuring Entity] prior to completion of the Works. These damages shall not relieve the Contractor from his obligation to complete the Works, or from any other duties, obligations or responsibilities which he may have under the Contract.

8.8 Suspension of Work

- 88.1 The Architect may at anytime instruct the Contractor to suspend progress of part or all of the Works. During such suspension, the Contractor shall protect, store and secure such part or the Works a gainst any deterioration, loss or damage.
- 882 The Architect may also notify the cause for the suspension. If and to the extent that the cause is notified and is the responsibility of the Contractor, the following Sub-Clauses 8.9, 8.10 and 8.11 shall not apply.

8.9 Consequences of Suspension

- 89.1 If the Contractor suffers delay and/or incurs Cost from complying with the Architect instructions under Sub-Clause 8.8 [Suspension of Work] and/or from resuming the work, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) Payment of any such Cost, which shall be included in the Contract Price.
- 892 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause3.5 [Determinations] to agree or determine these matters.
- 893 The Contractor shall not be entitled to an extension of time for, or to payment of the Cost incurred in, making good the consequences of the Contractor's faulty design, workmanship or materials, or of the Contractor's failure to protect, store or secure in accordance with Sub-Clause 8.8 [Suspension of Work].

8.10 Payment for Plant and Materials in Event of Suspension

The Contractor shall be entitled to payment of the value (as at the date of suspension) of Plant and/ or Materials which have not been delivered to Site, if:

- a) The work on Plant or delivery of Plant and/ or Materials has been suspended for more than 30 days, and
- b) the Contractor has marked the Plant and/or Materials as the Procuring Entity's property in accordance with the Architect instructions.

8.11 ProlongedSuspension

If the suspension under Sub-Clause 8.8 [Suspension of Work] has continued for more than 84 days, the Contractor may request the Architect permission to proceed. If the Architect does not give permission within 30 days after being requested to do so, the Contractor may, by giving notice to the Engineer, treat the suspension as an omission under Clause 13 [Variations and Adjustments] of the affected part of the Works. If the suspension affects the whole of the Works, the Contractor may give notice of termination under Sub-Clause 16.2 [Termination by Contractor].

8.12 Resumption of Work

After the permission or instruction to proceed is given, the Contractor and the Architect shall jointly examine the Works and the Plant and Materials affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the Works or Plant or Materials, which has occurred during the suspension after receiving from the Architec tan instruction to this effect under Clause 13 [Variations and Adjustments].

9. TESTS ON COMPLETION

9.1 Contractor's Obligations

- 9.1.1 The Contractor shall carry out the Tests on Completion in accordance with this Clause and Sub-Clause 7.4 [Testing], after providing the documents in accordance with sub-paragraph (d) of Sub-Clause 4.1 [Contractor's General Obligations].
- 9.12 The Contractor shall give to the Architect not less than 21 days' notice of the date after which the Contractor will be ready to carry out each of the Tests on Completion. Unless otherwise agreed, Tests on Completion shall be carried out within 14 days after this date, on such day or days as the Architect shall instruct.
- 9.13 In considering the results of the Tests on Completion, the Architect shall make allowances for the effect of any use of the Works by the Procuring Entity on the performance or other characteristics of the Works. As soon as the Works, or a Section, have passed any Tests on Completion, the Contractor shall submit a certified report of the results of these Tests to the Engineer.

9.2 Delayed Tests

- 92.1 If the Tests on Completion are being unduly delayed by the Procuring Entity, Sub-Clause 7.4 [Testing] (fifth paragraph) and/ or Sub-Clause 10.3 [Interference with Tests on Completion] shall be applicable.
- 922 If the Tests on Completion are being unduly delayed by the Contractor, the Architect may by notice require the Contractor to carry out the Tests within 21 days after receiving the notice. The Contractor shall carry out the Testson such day or days within that period as the Contractor may fix and of which he shall give notice to the Engineer.
- 923 If the Contractor fails to carryout the Tests on Completion within the period of 21 days, the Procuring Entity's Personnel may proceed with the Test sat the risk and cost of the Contractor. The Tests on Completion shall then be deemed to have been carried out in the presence of the Contractor and the results of the Tests shall be accepted asaccurate.

93 Retesting of related works

If the Works, or a Section, fail to pass the Tests on Completion, Sub-Clause 7.5 [Rejection] shall apply, and the Architect or the Contractor may require the failed Tests, and Tests on Completion on any related work, to be repeated under the same terms and conditions.

9.4 Failure to Pass Tests on Completion

- 94.1 If the Works, or a Section, fail to pass the Tests on Completion repeated under Sub-Clause 9.3 [Retesting], the Architect shall be entitled to:
 - a) Order further repetition of Tests on Completion under Sub-Clause 9.3; or
 - b) if the failure deprives the Procuring Entity of substantially the whole benefit of the Works or Section, reject the Works or Section (as the case may be), in which event the Procuring Entity shall have the same remedies as are provided in sub-paragraph (c) of Sub-Clause1 1.4 [Failure to Remedy Defects].

10. PROCURING ENTITY'S TAKING OVER

10.1 Taking Over of the Works and Sections

- 10.1.1 Except as stated in Sub-Clause 9.4 [Failure to Pass Tests on Completion], the Works shall be taken over by the Procuring Entity when (i) the Works have been completed in accordance with the Contract, including the matters described in Sub-Clause 8.2 [Time for Completion] and except as allowed in sub-paragraph (a) below, and (ii) a Taking-Over Certificate for the Works has been issued, or is deemed to have been issued in accordance with this Sub-Clause.
- 10.12 The Contractor may apply by notice to the Architect for a Taking-Over Certificate not earlier than 14 days before the Works will, in the Contractor's opinion, be complete and ready for taking over. If the Works are divided into Sections, the Contract or may similarly apply for a Taking-Over Certificate for each Section.
- 10.13 The Architect shall, within 30 days after receiving the Contractor's application:
 - a) Issue the Taking-Over Certificate to the Contract or, stating the date on which the Works or Section were completed in accordance with the Contract, except for any minor out standing work and defects which will not substantially affect the use of the Works or Section for their intended purpose (either until or whilst this work is completed and these defects are remedied); or
 - b) reject the application, giving reasons and specifying the work required to be done by the Contractor to enable the Taking-Over Certificate to be issued. The Contractor shall then complete this work before issuing a further notice under this Sub-Clause.
- 10.1.4 If the Architect fails either to issue the Taking-Over Certificate or to reject the Contractor's application within the period of 30 days, and if the Works or Section (as the case may be) are substantially in accordance with the Contract, the Taking-Over Certificate shall be deemed to have been issued on the last day of that period.

10.2 Taking Over of Parts of the Works

- 102.1 The Architect may, at the sole discretion of the Procuring Entity, issue a Taking-Over Certificate for any part of the Permanent Works.
- 1022 The Procuring Entity shall not use any part of the Works (other than as a temporary measure which is either specified in the Contract or agreed by both Parties) unless and until the Architect has issued a Taking-Over Certificate for this part. However, if the Procuring Entity does use any part of the Works before the Taking-Over Certificate is issued:
 - a) The part which is used shall be deemed to have been taken over as from the date on which it is used,
 - b) the Contractor shall cease to be liable for the care of such part as from this date, when responsibility shall pass to the Procuring Entity, and
 - c) if requested by the Contractor, the Architect shall issue a Taking-Over Certificate for this part.
- 1023 After the Architect has issued a Taking-Over Certificate for a part of the Works, the Contractor shall be given the earliest opportunity to take such steps as may be necessary to carry out any outstanding Tests on Completion. The Contractor shall carry out these Tests on Completion as soon as practicable before the expiry date of the relevant Defects Notification Period.
- 1024 If the Contractor incurs Cost as a result of the Procuring Entity taking over and/or using a part of the Works, other than such use as is specified in the Contractor agreed by the Contractor, the Contractor shall (i) give notice to the Architect and (ii) be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to payment of any such accrued costs, which shall be included in the Contract Price. After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this accrued cost.
- 1025 If a Taking-Over Certificate has been issued for a part of the Works (other than a Section), the delay damages there after for completion of the remainder of the Works shall be reduced. Similarly, the delay damages for the remainder of the Section (if any) in which this part is included shall also be reduced. For any period of delay after the date stated in this Taking-Over Certificate, the proportional reduction in these delay damages

shall be calculated as the proportion which the value of the part so certified bears to the value of the Works or Section (as the case may be) as a whole. The Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these proportions. The provisions of this paragraph shall only apply to the daily rate of delay damages under Sub-Clause 8.7 [Delay Damages] and shall not affect the maximum amount of these damages.

103 Interference with Tests on Completion

- 103.1 If the Contractor is prevented, for more than 14 days, from carrying out the Tests on Completion by a cause for which the Procuring Entity is responsible, the Procuring Entity shall be deemed to have taken over the Works or Section (as the case may be) on the date when the Tests on Completion would otherwise have been completed.
- 1032 The Architect shall then issue a Taking-Over Certificate accordingly, and the Contractor shall carry out the Tests on Completion as soon as practicable, before the expiry date of the Defects Notification Period. The Architect shall require the Tests on Completion to be carried out by giving 14 days' notice and in accordance with the relevant provisions of the Contract.
- 1033 If the Contractor suffers delay and/or incurs Cost as a result of this delay in carrying out the Tests on Completion, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such accrued costs, which shall be included in the Contract Price.
- 103.4 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

10.4 Surfaces Requiring Reinstatement

Except as otherwise stated in a Taking-Over Certificate, a certificate for a Section or part of the Works shall not be deemed to certify completion of any ground or other surfaces requiring reinstatement.

11. **DEFECTS LIABILITY**

11.1 Completion of Outstanding Work and Remedying Defects

- 11.1.1 In order that the Works and Contractor's Documents, and each Section, shall be in the condition required by the Contract (fairwear and tear excepted) by the expiry date of the relevant Defects Notification Period or as soon as practicable there after, the Contractor shall:
 - a) complete any work which is outstanding on the date stated in a Taking-Over Certificate, within such reasonable time as is instructed by the Engineer, and
 - b) execute all work required to remedy defects or damage, as may be notified by (or on behalf of) the Procuring Entity on or before the expiry date of the Defects Notification Period for the Works or Section (as the case may be).
- 11.12 If a defect appears or damage occurs, the Contractor shall be notified accordingly by the Engineer.

11.2 Cost of Remedying Defects

- 112.1 All work referred to in sub-paragraph (b) of Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects] shall be executed at the risk and cost of the Contractor, if and to the extent that the work is attributable to:
 - a) Any design for which the Contractor is responsible,
 - b) Plant, Materials or workmanship not being in accordance with the Contract, or
 - c) Failure by the Contractor to comply with any other obligation.
- 1122 If and to the extent that such work is attributable to any other cause, the Contractor shall be notified promptly by (or on behalf of) the Procuring Entity, and Sub-Clause 13.3 [Variation Procedure] shall apply.

113 Extension of Defects Notification Period

- 113.1 The Procuring Entity shall be entitled subject to Sub-Clause 2.5 [Procuring Entity's Claims] to an extension of the Defects Notification Period for the Works or a Section if and to the extent that the Works, Section or a major item of Plant (as the case may be, and after taking over) cannot be used for the purposes for which they are intended by reason of a defect or by reason of damage attributable to the Contractor. However, a Defects Notification Period shall not be extended by more than two years.
- 1132 If delivery and/ or erection of Plant and/ or Materials was suspended under Sub-Clause 8.8 [Suspension of Work] or Sub-Clause 16.1 [Contractor's Entitlement to Suspend Work], the Contractor's obligations under this Clause shall not appl yto any defectsor damage occurring more than two years after the Defects Notification Period for the Plant and/ or Materials would otherwise have expired.

11.4 Failure to Remedy Defects

- 11.4.1 If the Contractor fails to remedy any defect or damage within a reasonable time, a date may be fixed by the Engineer, on or by which the defect or damage is to be remedied. The Contractor shall be given reasonable notice of this date.
- 11.42 If the Contractor fails to remedy the defect or damage by this notified date and this remedial work was to be executed at the cost of the Contractor under Sub-Clause 11.2[Costo f Remedying Defects], the Procuring Entity may (at his option):
 - (a) Carry out the work itself or by others, in a reasonable manner and at the Contractor's cost, but the Contractor shall have no responsibility for this work; and the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay to the Procuring Entity the costs reasonably incurred by the Procuring Entity in remedying the defect or damage;
 - (b) Require the Architect to agree or determine a reasonable reduction in the Contract Price in accordance with Sub-Clause 3.5 [Determinations]; or
 - (c) if the defect or damage deprives the Procuring Entity of substantially the whole benefit of the Works or any major part of the Works, terminate the Contractas a whole, or in respect of such major part which cannot be put to the intended use. Without prejudice to any other rights, under the Contractor otherwise, the Procuring Entity shall then be entitled to recover all sums paid for the Works or for such part (as the case may be), plus financing costs and the cost of dismantling the same, clearing the Site and returning Plant and Materials to the Contractor.

11.5 Removal of Defective Work

If the defector damage cannot be remedied expeditiously on the Site and the Procuring Entity gives consent, the Contractor may remove from the Site for the purposes of repair such items of Plant as are defective or damaged. This consent may require the Contractor to increase the amount of the Performance Security by the full replacement cost of these items, or to provide other appropriate security.

11.6 Further Tests

- 11.6.1 If the work of remedying of any defector damage may affect the performance of the Works, the Architect may require the repetition of any of the tests described in the Contract. The requirement shall be made by notice within 14 days after the defect or damage is remedied.
- 11.62 These tests shall be carried out in accordance with the terms applicable to the previous tests, except that they shall be carried out at the risk and cost of the Party liable, under Sub-Clause 11.2 [Cost of Remedying Defects], for the cost of the remedial work.

11.7 Right of Access

Unti Ithe Completion Certificate has been issued, the Contractor shall have such right of access to the Works as is reasonably required in order to comply with this Clause, except as may be inconsistent with the Procuring Entity's reasonable security restrictions.

11.8 Contractor to Search

The Contractor shall, if required by the Engineer, search for the cause of any defecton parts of the works that have already accepted, under the direction of the Engineer. Unless the defect is to be remedied at the cost of the Contractor under Sub-Clause 11.2 [Cost of Remedying Defects], the Cost of the search plus profit shall be agreed or determined by the Architect in accordance with Sub-Clause 3.5 [Determinations] and shall be included in the Contract Price.

119 Completion Certificate

- 119.1 Performance of the Contractor's obligations shall not be considered to have been completed until the Architect has issued the Completion Certificate to the Contractor, stating the date on which the Contractor completed his obligations under the Contract.
- 11.92 The Architect shall issue the Completion Certificate within 30days after the latest of the expiry dates of the Defects Liability Period, or as soon there after as the Contractor has supplied all the Contractor's Documents and completed and tested all the Works, including remedying any defects. A copy of the Completionn Certificate shall be issued to the Procuring Entity.
- 1193 Only the Completion Certificate shall be deemed to constitute acceptance of the Works.

11.10 Unfulfilled Obligations

After the Completion Certificate has been issued, each Party shall remain liable for the fulfilment of any obligation which remains unperformed at that time. For the purposes of determining the nature and extent of unperformed obligations, the Contract shall be deemed to remain in force.

11.11 Clearance of Site

- 11.11.1 Upon receiving the Completion Certificate, the Contractor shall remove any remaining Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works from the Site.
- 11.112 If all these items have not been removed within 30 days after receipt by the Contractor of the Completion Certificate, the Procuring Entity may sell or otherwise dispose of any remaining items. The Procuring Entity shall be entitled to be paid the costs incurred in connection with, or attributable to, such sale or disposal and restoring the Site.
- 11.113 Any balance of the moneys from the sale shall be paid to the Contractor. If these moneys are less than the Procuring Entity's costs, the Contractor shall pay the outstanding balance to the Procuring Entity.

12. MEASUREMENT AND EVALUATION

12.1 Works to be Measured

- 12.1.1 The Works shall be measured, and valued for payment, in accordance with this Clause. The Contractorshall show in each application under Sub-Clauses 14.3 [Application for Interim Payment Certificates], 14.10 [Statement on Completion] and 14.11 [Application for Final Payment Certificate] the quantities and other particulars detailing the amounts which he considers to be entitled under the Contract.
- 12.1.2 Whenever the Architect requires any part of the Works to be measured, reasonable notice shall be given to the Contractor's Representative, who shall:
 - a) promptly either attend or send another qualified representative to assist the Architect in making the measurement, and
 - b) supply any particulars requested by the Engineer.
- 12.13 If the Contractor fails to attend or send a representative, the measurement made by the Architect shall be accepted as accurate.
- 12.1.4 Except as otherwise stated in the Contract, wherever any Permanent Works are to be measured from records, these shall be prepared by the Engineer. The Contractor shall, as and when requested, attend to examine and agreet her ecords with the Engineer, and shall sign the same when agreed. If the Contractor does not attend, the records shall be accepted as accurate.
- 12.15 If the Contractor examines and disagrees the records, and/ or does not sign them as agreed, then the Contractor shall give notice to the Architect of the respects in which the records are asserted to be inaccurate. After receiving this notice, the Architect shall review the records and either confirm or vary them and certify the paymentofthe undisputed part. If the Contractor does not so give notice to the Architect within 14 days after being requested to examine the records, they shall be accepted as accurate.

12.2 Method of Measurement

Except as otherwise stated in the Contract:

- a) Measurement shall be made of the net actual quantity of each item of the Permanent Works, and
- b) the method of measurement shall be in accordance with the Bill of Quantities or other applicable Schedules.

123 Evaluation

- 123.1 Except as otherwise stated in the Contract, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the value of workd one by evaluating each item of work, applying the measurement agreed or determined in accordance with the above Sub-Clauses 12.1 and 12.2 and the appropriate rate or price for the item.
- 1232 For each item of work, the appropriate rate or price for the item shall be the rate or price specified for such item in the Contractor, if there is no such item, specified for similar work.
- 1233 Any item of work included in the Bill of Quantities for which no rate or price was specified shall be considered as included in other rates and prices in the Bill of Quantities and will not be paid for separately.
- 123.4 However, for a new item of work, a new rate or price shall be appropriate for such item of work if:
 - a) The work is instructed under Clause13 [Variations and Adjustments],
 - b) no rate or price is specified in the Contract for this item, and
 - c) no specified rate or price is appropriate because the item of work is not of similar character, or is not executed under similar conditions, as any item in the Contract.
- 1235 Each new rate or price shall be derived from any relevant rates or prices in the Contract. If no rates or prices are relevant for the new item of work, it shall be derived from the reasonable Cost of executing such work, prevailing market rates, together with profit, taking account of any other relevant matters.
- 123.6 Until such time as an appropriate rate or price is agreed or determined, the Architect shall determine a provisional rate or price for the purposes of Interim Payment Certificates as soon as the concerned work commences.
- 123.7 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 <u>plus or minus</u> percentage. The percentage already worked out during tender evaluation is worked out as follows: (corrected tender price-tender price)/ tender price X 100.

12.4 Omissions

Whenever the omission of any work forms part (or all) of a Variation, the value of which has not been agreed, if:

- a) The Contractor will incur (or has incurred) cost which, if the work had not been omitted, wouldhavebeen deemed to be covered by a sum forming part of the Accepted Contract Amount;
- b) The omission of the work will result (or has resulted) in this sum not forming part of the Contract Price; and
- c) this cost is not deemed to be included in the evaluation of any substituted work; then the Contractor shall give notice to the Architect accordingly, with supporting particulars. Upon receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this cost, which shall be included in the Contract Price.

13. VARIATIONS AND ADJUSTMENTS

13.1 Right to Vary

- 13.1.1 Variations may be initiated by the Architect at any time prior to issuing the Taking-Over Certificate for the Works, either by an instruction or by a request for the Contractor to submit a proposal. No Variation instructed by the Architect under this Clause shall in any way vitiate or in validate the Contract.
- 13.12 The Contractor shall execute and be bound by each Variation, unless the Contractor promptly gives notice to the Architect stating (with supporting particulars) that (i) the Contractor cannot readily obtain the Goods required for the Variation, or (ii) such Variation triggers a substantial change in the sequence or progress of the Works. Upon receiving this notice, the Architect shall cancel, confirm or vary the instruction.

13.1.3 Each Variation may include:

- a) changes to the quantities of any item of work included in the Contract (however, such changes do not necessarily constitute a Variation),
- b) changes to the quality and otherc haracteristics of any item of work,
- c) changes to the levels, positions and/ or dimensions of any part of the Works,
- d) omission of any work unless it is to be carried out by others,
- e) any additional work, Plant, Materials or services necessary for the Permanent Works, including any associated Tests on Completion, boreholes and other testing and exploratory work, or
- f) changes to the sequence or timing of the execution of the Works.
- 13.14 The Contractor shall not make any alteration and/or modification of the Permanent Works, unless and until the Architect instructs after obtaining approval of the Procuring Entity.

132. Variation Order Procedure

- 1321 Priortoany Variation Order under Sub-Clause 13.1.4 the Architect shall notify the Contractor of the nature and form of such variation. As soon as possible after having received such notice, the Contractor shall submit to the Engineer:
 - a) A description of work, if any, to be performed and a programme for its execution, and
 - b) the Contractor's proposals for any necessary modifications to the Programme according to Sub-Clause 8.3 or to any of the Contractor's obligations under the Contract, and
 - c) the Contractor's proposals for adjustment to the Contract Price.

Following the receipt of the Contractor's submission the Architect shall, after due consultation with the Employer and the Contractor, decide as soon as possible whether or not the variation shall be carried out. If the Architect decides that the variation shall be carried out, he shall issue a Variation Order clearly identified as such in accordance with the Contractor's submission or as modified by agreement.

If the Architect and the Contractor are unable to agree the adjustment of the Contract Price, the provisions of Sub-Clause 13.2.2 shall apply.

1322 Disagreement on Adjustment of the Contract Price

If the Contractor and the Architecture unable to agree on the adjustment of the Contract Price, the adjustment shall be determined in accordance with the rates specified in the Bills of Quantities or Schedule of Daywork Prices. If the rates contained in the Bills of Quantities or Dayworks Prices are not directly applicable to the specific work in question, suitable rates shall be established by the Architect reflecting the level of pricing in the Dayworks Prices. Where rates are not contained in the said Prices, the amount shall be such as is in all the circumstances reasonable, reflecting a market price. Due account shall be taken of any over-or underrecovery of overheads by the Contractor in consequence of the variation. The Contractor shall also be entitled to be paid:

- a) The cost of any partial execution of the Work srendered useless by any such variation,
- b) The cost of making necessary alterations to Plant already manufactured or in the course of manufacture or of any work done that has to be altered in consequence of such a variation,
- c) any additional costs incurred by the Contractor by the disruption of the progress of the Works as detailed in the Programme, and
- d) the net effect of the Contractor's financec osts, including interest, caused by the variation.

The Architect shall on this basis determine the rates or prices to enable on-account payment to be included in certificates of payment.

1323 Contractor to Proceed

On receipt of a Variation Order, the Contractor shall forth with proceed to carry out the variation and be bound to these Conditions in so doing as if such variation was stated in the Contract. The work shall not be delayed pending the granting of an extension of the Time for Completion or an adjustment to the Contract Price under Sub-Clause31.3.

13.3 Value Engineering

13.3.1 TheContractor may, at anytime, submit to the Architect written proposal which (in the Contractor's opinion) will, if adopted, (i) accelerate completion, (ii) reduce the cost to the Procuring Entity of executing, maintaining or operating the Works, (iii) improve the efficiency or value to the Procuring Entity of the completed Works,

or(iv) otherwise be of benefit to the Procuring Entity.

- 13.3.2 The proposal shall be prepared at the cost of the Contractor and shall include the items listed in Sub-Clause 13.3 [Variation Procedure].
- 132.3 If a proposal, which is approved by the Engineer, includes a change in the design of part of the Permanent Works, then unless otherwise agreed by both Parties:
 - a) The Contractor shall design this part,
 - b) sub-paragraphs (a) to (d) of Sub-Clause 4.1 [Contractor's General Obligations] shall apply, and
 - c) if this change results in a reduction in the contract value of this part, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine a fee, which shall be included in the Contract Price. This fee shall behalf (50%) of the difference between the following amounts:
 - i) such reduction in contract value, resulting from the change, excluding adjustments under Sub-Clause 13.8 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost], and
 - ii) the reduction (if any) in the value to the Procuring Entity of the varied works, taking account of any improvement in quality, anticipated life or operational efficiencies.
- 13.3.4 However, if the amount established in item 13.2.3 (c) (i) is less than amount established in item 13.2.3 (c (ii), there shall not be a fee. However, if the if the amount established in item 13.2.3 (c) (i) is more than amount established in item 13.2.3 (c (ii), it shall result in a price variation to the Procuring Entity.

13.4 Variation Procedure for Value Engineering proposal

- 13.4.1 If the Architect requests a proposal, prior to instructing a Variation, the Contractor shall respond in writinga s soon as practicable, either by giving reasons why he cannot comply (if this is the case) or by submitting:
 - a) A description of the proposed work to be performed and a programme for its execution,
 - b) the Contractor's proposal for any necessary modifications to the programme according to Sub-Clause 8.3 [Programme] and to the Time for Completion, and
 - c) the Contractor's proposal for evaluation of the Variation.
- 13.42 The Architect shall, as soon as practicable after receiving such proposal (under Sub-Clause 13.2 [Value Project Engineering] or otherwise), respond with approval, disapproval or comments. The Contractor shall not delay any work whilst a waiting a response.
- 13.43 Each instruction to execute a Variation, with any requirements for the recording of Costs, shall be issued by the Architect to the Contractor, who shall acknowledge receipt.
- 13.44 Each Variation shall be evaluated in accordance with Clause 12 [Measurement and Evaluation], unless the Architect instructs or approves otherwise in accordance with this Clause.

135 Paymentin Applicable Currencies

If the Contract provides for payment of the Contract Price in more than one currency, then whenever an adjustment is agreed, approved or determined as stated above, the amount payable in each of the applicable currencies shall be specified. For this purpose, reference shall be made to the actual or expected currency proportions of the Cost of the varied work, and to the proportions of various currencies specified for payment of the Contract Price.

13.6 Provisional Sums

- 13.6.1 Each Provisional Sum shall only be used, in whole or inpart, in accordance with the Architect instructions, and the Contract Price shall be adjusted accordingly. The total sum paid to the Contractor shall include onlysuch amounts, for the work, supplies or services to which the Provisional Sum relates, as the Architect shall have instructed. For each Provisional Sum, the Architect May instruct:
 - a) Work to be executed (including Plant, Materialso r services to be supplied) by the Contractor and valued under Sub-Clause 13.3 [Variation Procedure]; and/or
 - b) Plant, Materials or services to be purchased by the Contractor, from a nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]) or otherwise; and for which there shall be included in the Contract Price:
 - i) The actual amounts paid (or due to be paid) by the Contractor, and
 - ii) a sum for overhead charges and profit, calculated as a percentage of these actual amounts by

applying the relevant percentage rate (if any) stated in the appropriate Schedule. If there is no such rate, the percentage rate stated in **the Special Conditions of Contract** shall be applied.

13.62 The Contractor shall, when required by the Engineer, produce quotations, invoices, vouchers and accounts or receipts in substantiation.

13.7 Dayworks

- 13.7.1 For work of a minor or incidental nature, the Architect may instruct that a Variation shall be executed on a daywork basis. The work shall then be valued in accordance with the Daywork Schedule included in the Contract, and the following procedure shall apply. If a Daywork Schedule is not included in the Contract, this Sub-Clause shall not apply.
- 13.72 Before ordering Goods for the work, the Contractor shall submit quotations to the Engineer. When applying for payment, the Contractor shall submit invoices, vouchers and accounts or receipts for any Goods.
- 13.73 Except for any items for which the Daywork Schedule specifies that payment is not due, the Contractor shall delive reach day to the Architect accurate statements induplicate which shall include the following details of the resources used in executing the previous day's work:
 - a) The names, occupations and time of Contractor's Personnel,
 - b) the identification, type and time of Contractor's Equipment and Temporary Works, and
 - c) the quantities and types of Plant and Materials used.
- 13.7.4 One copy of each statement will, if correct, or when agreed, be signed by the Architect and returned to the Contractor. The Contractor shall then submit priced statements of these resources to the Engineer, prior to their inclusion in the next Statement under Sub-Clause 14.3 [Application for Interim Payment Certificates].

138 Adjustments for Changes in Legislation

- 13.8.1 The Contract Price shall be adjusted to take account of any increase or decrease in Cost resulting from a change in the Laws of Kenya (including the introduction of new Laws and the repeal or modification of existing Laws) or in the judicial or official governmental interpretation of such Laws, made after the Base Date, which affect the Contractor in the performance of obligations under the Contract.
- 13.82 If the Contractor suffers (or will suffer) delay and/or incurs (or will incur) additional Cost as a result of these changes in the Laws or in such interpretations, made after the Base Date, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost, which shall be included in the Contract Price.
- 13.83 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 13.84 Not withstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the table of adjustment data in accordance with the provisions of Sub-Clause 13.8 [Adjustments for Changes in Cost].

139 Adjustments for Changes in Cost

- 139.1 In this Sub-Clause, "table of adjustment data" means the completed table of adjustment data for local and foreign currencies included in the Schedules. If there is no such table of adjustment data, this Sub-Clause shall not apply.
- 1392 If this Sub-Clause applies, the amounts payable to the Contractor shall be adjusted for rises or falls in the cost of labor, Goods and other inputs to the Works, by the addition or deduction of the amounts determined by the formulae prescribed in this Sub-Clause. To the extent that full compensation for any rise or fall in Costs is not covered by the provisions of this or other Clauses, the Accepted Contract Amount shall be deemed to have included a mounts to cover the contingency of other rises and falls in costs.
- 1393 The adjustment to be applied to the amount otherwise payable to the Contractor, as valued in accordance with the appropriate Schedule and certified in Payment Certificates, shall be determined from formulae for each of the currencies in which the Contract Price is payable. No adjustment is to be applied to work valued on the

basis of Cost or current prices. The formulae shall be of the following general type:

Price Adjustment Formula

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:

$\mathbf{P} = \mathbf{A} + \mathbf{B} \mathbf{Im}/\mathbf{Io}$

where:

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

- A and **B** are coefficients **specified in the SCC**, representing then on 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 Ioc is the index prevailing 30 days before Bid opening for inputs payable.
- **NOTE:** 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 nonadjustable components. The sum of the adjustments for each currency are added to the Contract Price.
- 1394 The cost indices or reference prices stated in the table of adjustment data shall be used. If their source is in doubt, itshall be determined by the Engineer. Forth is purpose, reference shall be made to the values of the indices at stated dates (quoted in the fourth and fifth columns respectively of the table) for the purposes of clarification of the source; although these dates (and thus these values) may not correspond to the base cost indices.
- 1395 Incases where the "currency of index" is not the relevant currency of payment, each index shall be converted into the relevant currency of payment at the selling rate, established by the Central Bank of Kenya, of this relevant currency on the above date for which the index is required to be applicable.
- 139.6 Until such time as each current cost index is available, the Architect shall determine a provisional index for the issue of Interim Payment Certificates. When a current cost index is available, the adjustment shall be recalculated accordingly.
- 139.7 If the Contractor fails to complete the Works within the Time for Completion, adjustment of prices there after shall be made using either (i) each index or price applicableo n the date 49 days prior to the expiry of the Time for Completion of the Works, or (ii) the current index or price, whichever is more favorable to the Procuring Entity.
- 13.9.8 The weightings (coefficients) for each of the factors of cost stated in the table(s) of adjustment data shall only be adjusted if they have been rendered unreasonable, unbalanced or in applicable, as a result of Variations.

14. CONTRACT PRICE AND PAYMENT

14.1 The Contract Price

- 14.1.1 Unless otherwise stated in the Special Conditions:
 - a) The value of the payment certificate shall be agreed or determined under Sub-Clause 12.3 [Evaluation] and be subject to adjustments in accordance with the Contract;
 - b) the Contractor shall pay all taxes, duties and fees required to be paid by him under the Contract, and the Contract Price shall not be adjusted for any of these costs except as stated in Sub-Clause 13.7 [Adjustments for Changes in Legislation];
 - c) any quantities which may be set out in the Bill of Quantities or other Schedule are estimated quantities and are not to be taken as the actual and correct quantities:

- i) of the Works which the Contractor is required to execute, or
- ii) for the purposes of Clause12 [Measurement and Evaluation]; and
- d) the Contractor shall submit to the Engineer, within 30 days after the Commencement Date, a proposed breakdown of each lump sum price in the Schedules. The Architect may take account of the break down when preparing Payment Certificates but shall not be bound by it.
- 14.12 Notwithstanding the provisions of subparagraph (b), Contractor's Equipment, including essential spare parts there for, imported by the Contractor for the sole purpose of executing the Contract shall not be exempt from the payment of import duties and taxes upon importation.

14.2 Advance Payment

- 142.1 The Procuring Entity shall make an advance payment, as an interest-free loan for mobilization and cashflow support, when the Contractor submits a guarantee in accordance with this Clause. The total advance payment, the number and timing of instalments (if more than one), and the applicable currencies and proportions, shall be as stated in the **Special Conditions of Contract**.
- 1422 Unless and until the Procuring Entity receives this guarantee, or if the total advance payment is not stated in the Special Conditions of Contract, this Sub-Clause shall not apply.
- 1423 The Architect shall deliver to the Procuring Entity and to the Contractor an Interim Payment Certificate for the advance payment or its first instalment after receiving a Statement (under Sub-Clause 14.3 [Application for Interim Payment Certificates]) and after the Procuring Entity receives (i) the Performance Security in accordance with Sub-Clause 4.2 [Performance Security] and (ii) a guarantee in amounts and currencies equal to the a dvance payment. This guarantee shall be issued by a reputable bank or financial institutions elected by the Contractor and shall be in the form annexed to the Special Conditions or in another form approved by the Procuring Entity.
- 142.4 The Contractor shall ensure that the guarantee is valid and enforceable until the advance payment has been repaid, but its amount shall be progressively reduced by the amount repaid by the Contractor as indicated in the Payment Certificates. If the terms of the guarantee specify its expiry date, and the advance payment has not been repaid by the date 30 days prior to the expiry date, the Contractor shall extend the validity of the guarantee until the advance payment has been repaid.
- 1425 Unless stated otherwise in **the Special Conditions of Contract**, the advance payment shall be repaid through percentage deductions from the interim payments determined by the Architect in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates], as follows:
 - a) Deductions shall commence in the next interim Payment Certificate following that in which the total of all certified interim payments (excluding the advance payment and deductions and repayments of retention) exceeds 30 percent (30%) of the Accepted Contract Amount less Provisional Sums; and
 - b) deductions shall be made at the amortization rate stated in the Special Conditions of Contract of the amount of each Interim Payment Certificate (excluding the advance payment and deductions for its repayments as well as deductions for retention money) in the currencies and proportions of the advance payment until such time as the advance payment has been repaid; provided that the advance payment shall be completely repaid prior to the time when 90 percent (90%) of the Accepted Contract Amount less Provisional Sums has been certified for payment.
- 1426 If the advance payment has not been repaid prior to the issue of the Taking-Over Certificate for the Works or prior to termination under Clause 15 [Termination by Procuring Entity], Clause 16 [Suspension and Termination by Contractor] or Clause 19 [Force Majeure] (as the ase may be), the whole of the balance then outstanding shall immediately become due and in case of termination under Clause 15 [Termination by Procuring Entity], except for Sub-Clause 14.2.7 [Procuring Entity's Entitlement to Termination for Convenience], payable by the Contractor to the Procuring Entity.

14.3 Application for Interim Payment Certificates

143.1 The Contractor shall submit a Statement (in number of copies indicated in the **Special Conditions of Contract**) to the Architect after the end of each month, in aform approved by the Engineer, showing in detail

the amounts to which the Contractor considers itself to be entitled, together with supporting documents which shall include there porton the progress during this month in accordance with Sub-Clause4.21 [Progress Reports].

- 1432 The Statement shall include the following items, as applicable, which shall be expressed in the various currencies in which the Contract Price is payable, in the sequence listed:
 - a) the estimated contract value of the Works executed and the Contractor's Documents produced up to the end of the month (including Variations but excluding items described in sub-paragraphs (b) to (g) below);
 - any amounts to be added and deducted for changes in legislation and changes in cost, in accordance with Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost];
 - c) any amount to be deducted for retention, calculated by applying the percentage of retention stated in the **Special Conditions of Contract** to the total of the above amounts, until the amount so retained by the Procuring Entity reaches the limit of Retention Money (if any) stated in the **Special Conditions of Contract**;
 - d) any amounts to be added for the advance payment and (if more than one instalment) and to be deducted for its repayments in accordance with Sub-Clause 14.2 [Advance Payment];
 - e) any amounts to be added and deducted for Plant and Materials in accordance with Sub-Clause 14.5 [Plant and Materials intended for the Works];
 - f) any other additions or deductions which may have become due under the Contractor otherwise, including those under Clause 20 [Claims, Disputes and Arbitration]; and
 - g) the deduction of amounts certified in all previous Payment Certificates.

14.4 Schedule of Payments

- 14.1 I fthe Contract includes a schedule of payments specifying the instalments in which the Contract Price will be paid, then unless otherwise stated in this schedule:
 - a) The instalments quoted in this schedule of payments shall be the estimated contract values for the purposes of sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates];
 - b) Sub-Clause 14.5 [Plant and Materials intended for the Works] shall not apply; and
 - c) If these instalments are not defined by reference to the actual progress achieved in executing the Works, and if actual progress is found to be less or more than that on which this schedule of payments was based, then the Architect may proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine revised instalments, which shall take account of the extent to which progress is less or more than that on which the instalments were previously based.
- 1442 If the Contract does not include a schedule of payments, the Contractor shall submit non-binding estimates of the payments which he expects to become due during each quarterly period. The first estimate shall be submitted within 42 days after the Commencement Date. Revised estimates shall be submitted at quarterly intervals, until the Taking-Over Certificate has been issued for the Works.

14.5 Plant and Materials intended for the Works

- 145.1 If this Sub-Clause applies, Interim Payment Certificates shall include, under sub-paragraph (e) of Sub-Clause 14.3, (i) an amount for Plant and Materials which have been sent to the Site for incorporation in the Permanent Works, and (ii) a reduction when the contract value of such Plant and Materials is included as part of the Permanent Works under sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates].
- 14.52 If the lists referred to in sub-paragraphs (b)(i) or (c)(i) below are not included in the Schedules, this Sub-Clause shall not apply.
- 14.53 The Architect shall determine and certify each addition if the following conditions a resatisfied:
 - a) The Contractor has:
 - i) kept satisfactory records (including the orders, receipts, Costs and use of Plant and Materials) which are available for inspection, and
 - (ii) submitted statement of the Cost of acquiring and delivering the Plant and Materials to the Site, supported by satisfactory evidence;

and either:

- b) the relevant Plant and Materials:
 - i) are those listed in the Schedules for payment when shipped,
 - ii) have been shipped to Kenya, enroute to the Site, in accordance with the Contract; and
 - iii) are described in a clean shipped bill of lading or other evidence of shipment, which has been submitted to the Architect together with evidence of payment of freight and insurance, any other documents reasonably required, and a bank guarantee in a form and issued by an entity approved by the Procuring Entity in amounts and currencies equal to the amount due under this Sub-Clause: this guarantee may be in a similar form to the form referred to in Sub-Clause14.2 [Advance Payment] and shall be valid until the Plant and Materials are properly stored on Site and protected against loss, damage or deterioration; or
- c) the relevant Plant and Materials:
 - i) are those listed in the Schedules for payment when delivered to the Site, and
 - ii) have been delivered to and are properly stored on the Site, are protected against loss, damage or deterioration and appear to be in accordance with the Contract.
- 14.5.4 The additional amount to be certified shall be the equivalent of eighty percent (80%) of the Architect determination of the cost of the Plant and Materials (including delivery to Site), taking account of the documents mentioned in this Sub-Clause and of the contract value of the Plant and Materials.
- 1455 The currencies for this additional amount shall be the same as those in which payment will become due when the contract value is included under sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates]. At that time, the Payment Certificate shall include the applicable reduction which shall be equivalent to, and in the same currencies and proportions as, this additional amount for the relevant Plant and Materials.

14.6 Issue of Interim Payment Certificates

- 14.6.1 No amount will be certified or paid until the Procuring Entity has received and approved the Performance Security. Thereafter, the Architect shall, within 30 days after receiving a Statement and supporting documents, deliver to the Procuring Entity and to the Contractor an Interim Payment Certificate which shall state the amount which the Architect fairly determines to be due, with all supporting particulars for any reduction or withholding made by the Architect on the Statemen tif any.
- 14.62 However, prior to issuing the Taking-Over Certificate for the Works, the Architect shall not be bound to issue an Interim Payment Certificate in an amount which would (after retention and other deductions) be less than the minimum amount of Interim Payment Certificates (if any) stated **in the Special Conditions of Contract**. In this event, the Architect shall give notice to the Contractor accordingly.
- 14.63 An Interim Payment Certificate shall not be withheld for any other reason, although:
 - a) if anything supplied or work done by the Contractor is not in accordance with the Contract, the cost of rectification or replacement may be withheld until rectification or replacement has been completed; and/or
 - b) if the Contractor was or is failing to perform any work or obligation in accordance with the Contract, and had been so notified by the Engineer, the value of this work or obligation may be withheld until the work or obligation has been performed.
- 4.6.4 The Architect may in any Payment Certificate make any correction or modification that should properly be made to any previous Payment Certificate. A Payment Certificate shall not be deemed to indicate the Architect acceptance, approval, consent or satisfaction.

14.7 Payment

- 14.7.1 The Procuring Entity shall pay to the Contractor:
 - a) The advance payment shall be paid within 60 days after signing of the contract by both parties or within 60 days after receiving the documents in accordance with Sub-Clause 4.2 [Performance Security] and Sub-Clause 14.2 [Advance Payment], which ever is later;
 - b) The amount certified in each Interim Payment Certificate within 60 days after the Architect Issues Interim Payment Certificate; and
 - c) the amount certified in the Final Payment Certificate within 60 days after the Procuring Entity Issues

Interim Payment Certificate; or after determination of any disputed amount shown in the Final Statement in accordance with Sub-Clause 16.2 [Terminationby Contractor].

14.72 Payment of the amount due in each currency shall be made into the bank account, nominated by the Contractor, in the payment country (forth is currency) specified in the Contract.

14.8 Delayed Payment

- 14.8.1 If the Contractor does not receive payment in accordance with Sub-Clause 14.7 [Payment], the Contractor shall be entitled to receive financing charges (simple interest) monthly on the amount unpaid during the period of delay. This period shall be deemed to commence on the date for payment specified in Sub-Clause 14.7 [Payment], irrespective (in the case of its sub-paragraph (b) of the date on which any Interim Payment Certificate isissued.
- 14.82 These financing charges shall be calculated at the annual rate of three percentage points above the mean rate of the Central Bank in Kenya of the currency of payment, or if not available, the inter bank offered rate, and shall be paid in such currency.
- 14.83 The Contractor shall be entitled to this payment without formal notice and certification, and without prejudice to any other right or remedy.

14.9 Payment of Retention Money

- 149.1 When the Taking-Over Certificate has been issued for the Works, the first half of the Retention Money shall be certified by the Architect for payment to the Contractor. If a Taking-Over Certificate is issued for a Section or part of the Works, a proportion of the Retention Money shall be certified and paid. This proportion shall behalf (50%) of the proportion calculated by dividing the estimated contract value of the Section or part, by the estimated final Contract Price.
- 14.9.2 Promptly after the latest of the expiry dates of the Defects Liability Periods, the outstanding balance of the Retention Money shall be certified by the Architect for payment to the Contractor. If a Taking-Over Certificate was issued for a Section, a proportion of the second half of the Retention Money shall be certified and paid promptly after the expiry date of the Defects Notification Period for the Section. This proportion shall behalf (50%) of the proportion calculated by dividing the estimated contract value of the Section by the estimated final Contract Price.
- 14.9.3 However, if any work remains to be executed under Clause 11 [Defects Liability], the Architects hall be entitled to withhold certification of the estimated cost of this work until it has been executed.
- 14.9.4 When calculating these proportions, no account shall be taken of any adjustments under Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost].
- 149.5 Unless otherwise stated in the Special Conditions, when the Taking-Over Certificate has been issued for the Works and the first half of the Retention Money has been certified for payment by the Engineer, the Contractor shall be entitled to substitute a Retention Money Security guarantee, in the form annexed to the Special Conditions or in another form approved by the Procuring Entity and issued by a reputable bank or financial institution selected by the Contractor, for the second half of the Retention Money.
- 14.9.6 The Procuring Entity shall return the Retention Money Security guarantee to the Contractor within 14 days after receiving a copy of the Completion Certificate.

14.10 Statement at Completion

- 14.10.1 Within 84 days after receiving the Taking-Over Certificate for the Works, the Contractor shall submit to the Architect three copies of a Statement at completion with supporting documents, in accordance with Sub-Clause 14.3 [Application for Interim Payment Certificates], showing:
 - a) the value of all work done in accordance with the Contract up to the date stated in the Taking-Over Certificate for the Works,
 - b) any further sums which the Contractor considers to be due, and
 - c) an estimate of any other amounts which the Contractor considers will become due to him under the

Contract. Estimated amounts shall be shown separately in this Statement at completion.

14.102 The Architect shall then certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates].

14.11 Application for Final Payment Certificate

- 14.11.1 Within 60 days after receiving the Completion Certificate, the Contractor shall submit, to the Engineer, six copies of a draft final statement with supporting documents showing in detail in a form approved by the Engineer:
 - a) The value of all work done in accordance with the Contract, and
 - b) Any further sums which the Contractor considers to be due to him under the Contractor otherwise.
- 14.11.2 If the Architect disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Architect may reasonably require within 30 days from receipt of said draft and shall make such changes in the draft as may be agreed between them. The Contractor shall then prepare and submit to the Architect the final statement as agreed. This agreed statement is referred to in these Conditions as the "Final Statement".
- 14.11.3 However, if, following discussions between the Architect and the Contractor and any changes to the draft final statement which are agreed, it be comes evident that a dispute exists, the Architect shall deliver to the Procuring Entity (with a copy to the Contractor) an Interim Payment Certificate for the agreed parts of the draft final statement. Thereafter, if the dispute is finally resolved under Sub-Clause 20.4 [Obtaining Dispute Board's Decision] or Sub-Clause 20.5 [Amicable Settlement], the Contractor shall then prepare and submit to the Procuring Entity (with a copy to the Engineer) a Final Statement.

14.12 Discharge

When submitting the Final Statement, the Contractor shall submit a discharge which confirms that the total of the Final Statement represents full and final settlement of all moneys due to the Contractor under or in connection with the Contract. This discharge may state that it becomes effective when the Contractor has received the Performance Security and the out standing balance of this total, in which event the discharge shall be effective on such date.

14.13 Issue of Final Payment Certificate

- 14.13.1 Within 30days after receiving the Final Statement and discharge in accordance with Sub-Clause 14.11 [Application for Final Payment Certificate] and Sub-Clause 14.12 [Discharge], the Architect shall deliver, to the Procuring Entity and to the Contractor, the Final Payment Certificate which shall state:
 - a) The amount which he fairly determines is finally due, and
 - b) After giving credit to the Procuring Entity for all amounts previously paid by the Procuring Entity and for all sums to which the Procuring Entity is entitled, the balance (if any) due from the Procuring Entity to the Contractor or from the Contractor to the Procuring Entity, as the case may be.
- 14.132 If the Contractor has not applied for a Final Payment Certificate in accordance with Sub-Clause 14.11 [Application for Final Payment Certificate] and Sub-Clause 14.12 [Discharge], the Architect shall request theContractor to do so. If the Contractor fails to submit an application within a period of 30 days, the Architect shall issue the Final Payment Certificate for such amount as he fairly determines to be due.

14.14 Cessation of Procuring Entity's Liability

- 14.14.1 The Procuring Entity shall not be liable to the Contractor for any matter or thing under or in connection with the Contract or execution of the Works, except to the extent that the Contractor shall have included an amount expressly for it:
 - a) in the Final Statement and also,
 - b) (except for matters or things arising after the issue of the Taking-Over Certificate for the Works) in the Statement at completion described in Sub-Clause 14.10 [Statement at Completion].
- 14.14.2 However, this Sub-Clause shall not limit the Procuring Entity's liability under his in demnification obligations, or the Procuring Entity's liability in any case of fraud, deliberate default or reckless misconduct

by the Procuring Entity.

14.15 Currencies of Payment

The Contract Price shall be paid in the currency or currencies named in the Schedule of Payment Currencies. If more than one currency is so named, payments shall be made as follows:

- a) If the Accepted Contract Amount was expressed in Local Currency only:
 - i) the proportions or amounts of the Local and Foreign Currencies, and the fixed rates of exchange to be used for calculating the payments, shall be as stated in the Schedule of Payment Currencies, except as otherwise agreed by both Parties;
 - ii) payments and deductions under Sub-Clause 13.5 [Provisional Sums] and Sub-Clause 13.7 [Adjustments for Changes in Legislation] shall be made in the applicable currencies and proportions; and
 - iii) otherpayments and deductions under sub-paragraphs (a) to (d) of Sub-Clause 14.3 [Application for Interim Payment Certificates] shall be made in the currencies and proportions specified in subparagraph (a) (i) above;
- b) payment of the damages specified in the Special Conditions of Contract, shall be made in the currencies and proportions specified in the Schedule of Payment Currencies;
- c) other payments to the Procuring Entity by the Contractor shall be made in the currency in which the sum was expended by the Procuring Entity, or in such currency as may be agreed by both Parties;
- d) if any amount payable by the Contractor to the Procuring Entity in a particular currency exceeds the sum payable by the Procuring Entity to the Contractor in that currency, the Procuring Entity may recover the balance of this amount from the sums otherwise payable to the Contractor in other currencies; and
- e) if no rates of exchange are stated in the Schedule of Payment Currencies, they shall be those prevailing on the Base Date and determined by the Central Bank of Kenya.

15. TERMINATION BY PROCURING ENTITY

15.1 Notice to correct any defects or failures

If the Contractor fails to carry out any obligation under the Contract, the Architect may by notice require the Contractor to make good the failure and to remedy it within 30 days.

15.2 Termination by Procuring Entity

- 152.1 The Procuring Entity shall be entitled to terminate the Contract if the Contractor breaches the contract based on following circumstances which shall include but not limited to:
 - a) fails to comply with Sub-Clause 4.2 [Performance Security] or with a notice under Sub-Clause 15.1 [Notice to Correct],
 - b) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract,
 - c) without reasonable excuse fails:
 - i) to proceed with the Works in accordance with Clause 8 [Commencement, Delays and Suspension], or
 - ii) to comply with a notice issued under Sub-Clause 7.5 [Rejection] or Sub-Clause 7.6 [Remedial Work], within 30 days after receiving it,
 - d) subcontracts the major part or whole of the Works or assigns the Contract without the consent of the Procuring Entity,
 - e) becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of theseacts or events, or
 - f) gives or offers to give (directly or indirectly) to any person any bribe, gift, gratuity, commission or other thing of value, as an induce mentor reward:
 - i) for doing or for bearing to do any action in relation to the Contract, or
 - ii) for showing or for bearing to show favor or disfavor to any person in relation to the Contract, or
 - iii) if any of the Contractor's Personnel, agents or Subcontractors gives or offers to give (directly or indirectly) to any person any such induce mentor reward as is described in this sub-paragraph (f). However, lawful inducements and rewards to Contractor's Personnel shall not entitle termination, or

- g) If the contract or repeatedly fails to remedy delivers defective work,
- h) based on reasonable evidence, has engaged in Fraud and Corruption as defined in paragraph 2.2 of the Appendix B to these General Conditions, incompeting for or in executing the Contract.
- 1522 In any of these events or circumstances, the Procuring Entity may, upon giving 14 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of sub-paragraph (e) or (f) or (g) or (h), the Procuring Entity may by notice terminate the Contract immediately.
- 1523 The Procuring Entity's election to terminate the Contract shall not prejudice any other rights of the Procuring Entity, under the Contractor otherwise.
- 152.4 The Contractor shall then leave the Site and deliver any required Goods, all Contractor's Documents, and other design documents made by or for him, to the Engineer. However, the Contractor shall use his best efforts to comply immediately with any reasonable instructions included in the notice (i) for the assignment of any subcontract, and (ii) for the protection of life or property or for the safety of the Works.
- 1525 After termination, the Procuring Entity may complete the Works and/ or arrange for any other entities to do so. The Procuring Entity and these entities may then use any Goods, Contractor's Documents and other design documents made by or on behalf of the Contractor.
- 1526 The Procuring Entity shall then give notice that the Contractor's Equipment and Temporary Works will be released to the Contractor at or near the Site. The Contractor shall promptly arrange their removal, at the risk and cost of the Contractor. However, if by this time the Contractor has failed to make a payment due to the Procuring Entity, these items may be sold by the Procuring Entity in order to recover this payment. Any balance of the proceeds shall then be paid to the Contractor.

153 Valuation at Date of Termination

Assoon as practicable after a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the value of the Works, Goods and Contractor's Documents, and any other sums due to the Contractor for work executed in accordance with the Contract.

15.4 Payment after Termination

After a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Procuring Entity may:

- a) Proceed in accordance with Sub-Clause 2.5 [Procurin Entity's Claims],
- b) withhold further payments to the Contractor until the costs of execution, completion and remedying of any defects, damages for delay in completion (if any), and all other costs incurred by the Procuring Entity, have been established, and/ or
- c) recover from the Contractor any losses and damages incurred by the Procuring Entity and any extra costs of completing the Works, after allowing for any sum due to the Contractor under Sub-Clause 15.3 [Valuation at Date of Termination]. After recovering any such losses, damages and extra costs, the Procuring Entity shall pay any balance to the Contractor.

155 Procuring Entity's Entitlement to Termination for Convenience

The Procuring Entity shall be entitled to terminate the Contract, at any time at the Procuring Entity's convenience, by giving notice of such termination to the Contractor. The termination shall take effect 30 days after the later of the dates on which the Contractor receives this notice or the Procuring Entity returns the Performance Security. The Procuring Entity shall not terminate the Contract under this Sub-Clausein order to execute the Works itself or to arrange for the Works to be executed by another contractor or to avoid a termination of the Contract by the Contractor under Clause 16.2 [Termination by Contractor]. After this termination, the Contractor shall proceed in accordance with Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment] and shall be paid in accordance with Sub-Clause 16.4 [Payment on Termination].

15.6 Fraud and Corruption

The Contractor shall ensure compliance with the Kenya Government's Anti-Corruption Laws and its prevailing sanctions.

15.7 Corrupt gifts and payments of commission

15.7.1 The Contractor shall not;

- a) Offer or give or agree to give to any person in the service of the Procuring Entity any gift or consideration of any kind as an inducement or reward for doing or for bearing to door for having done or for borne to do any act in relation to the obtaining or execution of this or any other Contract for the Procuring Entity or for showing or for bearing to show favor or disfavor to any person in relation to this or any other contract for the Procuring Entity.
- b) Enter into this or any other contract with the Procuring Entity in connection with which commission has been paid or agreed to be paid by him or on his behalf or to his knowledge, unless before the Contract is made particulars of any such commission and of the terms and conditions of any agreement for the payment there of have been disclosed in writing to the Procuring Entity.
- 15.72 Any breach of this Condition by the Contractor or by anyone employed by him or acting on his behalf (whether with or without the knowledge of the Contractor) shall be an offence under the provisions of the Public Procurement and Asset Disposal Act (2015) and the Anti-Corruption and Economic Crimes Act (2003) of the Laws of Kenya.

16. SUSPENSION AND TERMINATION BY CONTRACTOR

16.1 Contractor's Entitlement to Suspend Work

- 16.1.1 If the Architect fails to certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates] or Sub-Clause 14.7 [Payment],or not receiving instructions that would enable the contractor to proceed with the works in accordance with the program, the Contractor may, after giving not less than 30 days' notice to the Procuring Entity, suspend work (or reduce the rate of work) unless and until the Contractor has received the Payment Certificate, reasonable evidence or payment, as the case may bea nd as described in the notice.
- 16.12 The Contractor's action shall not prejudice his entitlements to financing charges under Sub-Clause 14.8 [Delayed Payment] and to termination under Sub-Clause 16.2 [Terminationby Contractor].
- 16.13 If the Contractor subsequently receives such Payment Certificate, evidence or payment (as described in the relevant Sub-Clause and in the above notice) before giving a notice of termination, the Contractor shall resume normal working as soon as is reasonably practicable.
- 16.1.4 If the Contractor suffers delay and/ori neurs Cost as a result of suspending work (or reducing the rate of work) in accordance with this Sub-Clause, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- **162** After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

163 Termination by Contractor

- 163.1 The Contractor shall be entitled to terminate the Contract if:
 - a) the Architect fails, within 60 days after receiving a Statement and supporting documents, to issue the relevant Payment Certificate,
 - b) the Contractor does not receive the amount due under an Interim Payment Certificate within 90 days after the expiry of the time stated in Sub-Clause1 4.7 [Payment] within which payment is to be made (except for deductions in accordance with Sub-Clause 2.5 [Procuring Entity's Claims]),
 - c) the Procuring Entity substantially fails to perform his obligations under the Contract in such manner as to materially and adversely affect the economic balance of the Contract and/or the ability of the Contractor to perform the Contract,
 - d) a prolonged suspension affects the whole of the Works as described in Sub-Clause 8.11 [Prolonged Suspension], or
 - e) the Procuring Entity becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a

receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events.

- f) the Contractor does not receive the Architect instruction recording the agreement of both Parties on the fulfilment of the conditions for the Commencement of Works under Sub-Clause 8.1 [Commencement of Works].
- 1632 In any of these events or circumstances, the Contractor may, upon giving 14 days' notice to the Procuring Entity, terminate the Contract. However, in the case of sub-paragraph (f) or (g), the Contractor may by notice terminate the Contract immediately.
- 1633 The Contractor's election to terminate the Contract shall not prejudice any other rights of the Contractor, under the Contractor otherwise.

16.4 Cessation of Work and Removal of Contractor's Equipment

After a notice of termination under Sub-Clause 15.5 [Procuring Entity's Entitlement to Termination for Convenience], Sub-Clause 16.2 [Termination by Contractor] or Sub-Clause 19.6 [Optional Termination, Payment and Release] has taken effect, the Contractor shall promptly:

- a) cease all further work, except for such work as may have been instructed by the Architect for the protection of life or property or for the safety of the Works,
- b) hand over Contractor's Documents, Plant, Materials and other work, for which the Contractor has received payment, and
- c) remove all other Goods from the Site, except as necessary for safety, and leave the Site.

165 PaymentonTermination

After a notice of termination under Sub-Clause 16.2 [Termination by Contractor] has taken effect, the Procuring Entity shall promptly:

- a) Return the Performance Security to the Contractor,
- b) pay the Contractor in accordance with Sub-Clause 19.6 [Optional Termination, Payment and Release], and
- c) pay to the Contractor the amount of any loss or damage sustained by the Contractor as a result of this termination.

17. RISK AND RESPONSIBILITY

17.1 Indemnities

- 17.1.1 The Contractor shall indemnify and hold harmless the Procuring Entity, the Procuring Entity's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of:
 - a) Bodily injury, sickness, disease or death, of any person what so ever arising outo for in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless attributable to any negligence, willful actor breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, or any of their respective agents, and
 - b) damage to or loss of any property, real or personal (other than the Works), to the extent that such damage or loss arises out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless and to the extent that any such damage or loss is attributable to any negligence, willful act or breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, their respective agents, or anyone directly or indirectly employed by any of them.
- 17.12 The Procuring Entity shall indemnify and hold harmless the Contractor, the Contractor's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of (1) bodily injury, sickness, disease or death, which is attributable to any negligence, willful act or breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, or any of their respective agents, and (2) the matters for which liability may be excluded from insurance cover, as described in sub-paragraphs (d)(i), (ii) and (iii) of Sub-Clause 18.3 [Insurance Against Injury to Persons and Damage to Property], unless and to the extent that any such damage or loss is attributable to any negligence, willful actor breach of the Contract by the contractor, the contractor's Personnel, their respective agents, or anyone directly or indirectly employed by any of them.

17.2 Contractor's Care of the Works

- 172.1 The Contractor shall take full responsibility for the care of the Works and Goods from the Commencement Date until the Taking-Over Certificate is issued (or is deemed to be issued under Sub-Clause 10.1 [Taking Over of the Works and Sections]) for the Works, when responsibility for the care of the Works shall pass to the Procuring Entity. If a Taking-Over Certificate is issued (or is so deemed to be issued) for any Section or part of the Works, responsibility for the care of the Section or part shall then pass to the Procuring Entity.
- 1722 After responsibility has accordingly passed to the Procuring Entity, the Contractor shall take responsibility for the care of any work which is outstanding on the date stated in a Taking-Over Certificate, until this outstanding work has been completed.
- 1723 If any loss or damage happens to the Works, Goods or Contractor's Documents during the period when the Contractorisresponsible for their care, from any cause not listed in Sub-Clause 17.3 [Procuring Entity's Risks], the Contractor shall rectify the loss or damage at the Contractor's risk and cost, so that the Works, Goods and Contractor's Documents conform with the Contract.
- 1724 The Contractor shall be liable for any loss or damage caused by any actions performed by the Contractor after a Taking-Over Certificate has been issued. The Contractor shall also be liable for any loss or damage which occurs after a Taking-Over Certificate has been issued and which arose from a previous event for which the Contractor was liable.

173 Procuring Entity's Risks

The risks referred to in Sub-Clause 17.4 [Consequences of Procuring Entity's Risks] below, in so far as they directly affect the execution of the Works in Kenya, are:

- a) War hostilities (whether war be declared or not),
- b) rebellion, riot, commotion or disorder, terrorism, sabotage by persons other than the Contractor's Personnel,
- c) explosive materials, ionizing gradiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such explosives, radiation or radio-activity,
- d) pressure waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds,
- e) use or occupation by the Procuring Entity of any part of the Permanent Works, except as may be specified in the Contract,
- f) design of any part of the Works by the Procuring Entity's Personnel or by others for whom the Procuring Entity is responsible, and
- g) any operation of the forces of nature which is Unforeseeable or against which an experienced contractor could not reasonably have been expected to have taken adequate preventive precautions.

17.4 Consequences of Procuring Entity's Risks

- 174.1 If and to the extent that any of the risks listed in Sub-Clause 17.3 above results in loss or damage to the Works, Goods or Contractor's Documents, the Contractor shall promptly give notice to the Architect and shall rectify this loss or damage to the extent required by the Engineer.
- 17.42 If the Contractor suffers delay and/ or incurs Cost from rectifying this loss or damage, the Contractor shall give a further notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
- (a) An extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of TimeforCompletion], and
- (b) paymentofany such Cost, which shall be included in the Contract Price. In the case of sub-paragraphs (e)and (g) of Sub-Clause 17.3 [Procuring Entity's Risks], Accrued Costs shall be payable.
- 1743 After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

17.5 Intellectual and Industrial Property Rights

175.1 In this Sub-Clause, "infringement" shall refer to an infringement (or alleged infringement) of any patent,

registered design, copyright, trade mark, trade name, trade secret or other intellectual or industrial property right relating to the Works; and "claim" shall refer to a claim (or proceedings pursuing a claim) alleging an infringement.

- 1752 Whenever a Party does not give notice to the other Party of any claim within 30 days of receiving the claim, the first Party shall be deemed to have waived any right to indemnity under this Sub-Clause.
- 1753 The Procuring Entity shall indemnify and hold the Contractor harmless against and from any claim alleging an infringement which is or was:
 - a) An un avoidable result of the Contractor's compliance with the Contract, or
 - b) A result of any Works be ingused by the Procuring Entity:
 - i) for a purpose other than that indicated by, or reasonably to be inferred from, the Contract, or
 - ii) in conjunction with anything not supplied by the Contractor, unless such use was disclosed to the Contractor prior to the Base Date or is stated in the Contract.
- 175.4 The Contractor shall indemnify and hold the Procuring Entity harmless again stand from any other claim which arises out of or in relation to (i) the manufacture, use, sale or import of any Goods, or (ii) any design for which the Contractor is responsible.
- 1755 IfaPartyisentitledtobeindemnified under this Sub-Clause, the indemnifying Party may (at its cost) conduct negotiations for the settlement of the claim, and any litigation or arbitration which may arise from it. The other Party shall, at the request and cost of the indemnifying Party, assist in contesting the claim. This other Party (and its Personnel) shall not make any admission which might be prejudicial to the indemnifying Party, unless the indemnifying Party failed to take over the conduct of any negotiations, litigation or arbitration upon being requested to do so by such other Party.
- 175.6 For operation and maintenance of any plan to requipment installed, the contractor shall grant a non-exclusive and non-transferable license to the Procuring Entity under the patent, utility models ,or other intellectual rights owned by the contractor or a third party from whom the contract or has received the rights to grant sub-licenses and shall also grant to the Procuring Entity a non-exclusive and non-transferable rights (without the rights to sub-license) to use the know how and other technical information disclosed to the contract or under the contract. Nothing contained here-in shall be construed as transferring ownership of any patent, utility model, trademark, design, copy right, know-how or other intellectual rights from the contractor or any other third party to the Procuring Entity.

17.6 Limitation of Liability

- 17.6.1 Neither Party shall be liable to the other Party for loss of use of anyW orks, loss of profit, loss of any contractor for any in director consequential loss or damage which may be suffered by the other Party in connection with the Contract, other than as specifically provided in Sub-Clause 8.7 [Delay Damages]; Sub-Clause 11.2 [Cost of Remedying Defects]; Sub-Clause 15.4 [Payment after Termination]; Sub-Clause 16.4 [Payment on Termination]; Sub-Clause 17.1 [Indemnities]; Sub-Clause 17.4(b) [Consequences of Procuring Entity's Risks] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights].
- 17.62 The total liability of the Contractor to the Procuring Entity, under or in connection with the Contract other than under Sub-Clause 4.19 [Electricity, Water and Gas], Sub-Clause 4.20 [Procuring Entity's Equipment and Free- Issue Materials], Sub-Clause 17.1 [Indemnities] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights], shall not exceed the sum resulting from the application of a multiplier (less or greater than one) to the Accepted Contract Amount, as stated in **the Special Conditions of Contract**, or (if such multiplier or other sum is not so stated) the Accepted Contract Amount.
- 17.63 This Sub-Clause shall not limit liability in any case of fraud, deliberate default or reckless misconduct by the defaulting Party.

17.7 Use of Procuring Entity's Accommodation/Facilities

- 17.1 The Contractor shall take full responsibility for the care of the Procuring Entity provided accommodation and facilities, if any, as detailed in the Specification, from the respective dates of hand-over to the Contractor until cessation of occupation (where hand-over or cessation of occupation may take place after the date stated in the Taking-Over Certificate for the Works).
- 17.72 If any loss or damage happens to any of the above items while the Contractor is responsible for their care arising from any cause whatsoever other than those for which the Procuring Entity is liable, the Contractor shall, at his own cost, rectify the loss or damage to the satisfaction of the Engineer.

18. INSURANCE

18.1 General Requirements for Insurances

- 18.1.1 In this Clause, "insuring Party" means, for each type of insurance, the Party responsible for effecting and maintaining the insurance specified in the relevant Sub-Clause.
- 18.12 Wherever the Contractor is the insuring Party, each insurance shall be effected with insurers and in terms approved by the Procuring Entity. These terms shall be consistent with any terms agreed by both Parties before the date of the Letter of Acceptance. This agreement of terms shall take precedence over the provisions of this Clause.
- 18.1.3 Wherever the Procuring Entity is the insuring Party, each insurance shall be effected with insurers and in terms acceptable to the Contractor. These terms shall be consistent with any terms agreed by both Parties before the date of the Letter of Acceptance. This agreement of terms shall take precedence over the provisions of this Clause.
- 18.14 If a policy is required to indemnify joint insured, the cover shall apply separately to each insured as though a separate policy had been issued for each of the joint insured. If a policy indemnifies additional joint insured, namely in addition to the insured specified in this Clause, (i) the Contractor shall act under the policy on behalf of these additional joint insured except that the Procuring Entity shall act for Procuring Entity's Personnel, (ii) additional joint insured shall not be entitled to receive payments directly from the insurer or to have any other direct dealings with the insurer, and (iii) the insuring Party shall require all additional joint insured to comply with the conditions stipulated in the policy.
- 18.15 Each policy insuring against loss or damage shall provide for payments to be made in the currencies required to rectify the loss or damage. Payments received from insurers shall be used for the rectification of the loss or damage.
- 18.1.6 The relevant insuring Party shall, within the respective periods stated in **the Special Conditions of Contract** (calculated from the Commencement Date), submit to the other Party:
 - a) Evidence that the insurances described in this Clause have been affected, and
 - b) copies of the policies for the insurances described in Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment] and Sub-Clause 18.3 [Insurance against Injury to Persons and Damage to Property].
- 18.1.7 When each premium is paid, the insuring Party shall submit evidence of payment to the other Party. Whenever evidence or policies are submitted, the insuring Party shall also give notice to the Engineer.
- 18.1.8 Each Party shall comply with the conditions stipulated in each of the insurance policies. The insuring Party shall keep the insurers informed of any relevant changes to the execution of the Works and ensure that insurance is maintained in accordance with this Clause.
- 18.19 Neither Party shall make any material alteration to the terms of any insurance without the prior approval of the other Party. If an insurer makes (or at tempts to make) any alteration, the Party first notified by the insurer shall promptly give notice to the other Party.
- 18.1.0 If the insuring Party fails to effect and keep in force any of the insurances it is required to effect and maintain under the Contractor fails to provide satisfactory evidence and copies of policies in accordance with this Sub- Clause, the other Party may (at its option and without prejudice to any other right or remedy) effect insurance for the relevant coverage and pay the premiums due. The insuring Party shall pay the amount of these premiums to the other Party, and the Contract Price shall be adjusted accordingly.
- 18.1.11 Nothing in this Clause limits the obligations, liabilities or responsibilities of the Contractor or the Procuring Entity, under the other terms of the Contractor otherwise. Any amounts not insured or not recovered from the insurers shall be borne by the Contractor and/or the Procuring Entity.
- 18.1.12 Procuring Entity in accordance with these obligations, liabilities r responsibilities. However, if the insuring Party fails to effect and keep in force an insurance which is available and which it is required to effect and maintain under the Contract, and the other Party neither approves the omission nor effects insurance for the coverage relevant to this default, any moneys which should have been recoverable under this insurance shall

be paid by the insuring Party.

- 18.1.13 Payments by one Party to the other Party shall be subject to Sub-Clause 2.5 [Procuring Entity's Claims] or Sub- Clause 20.1 [Contractor's Claims], as applicable.
- 18.1.14 The Contractor shall be entitled to place all insurance relating to the Contract (including, but not limited to the insurance referred to Clause 18) with insurers from any eligible source country.

182 Insurance for Works and Contractor's Equipment

- 182.1 The insuring Party shall insure the Works, Plant, Material sand Contractor's Documents for not less than the full reinstatement cost including the costs of demolition, removal of debris and professional fees and profit. This insurance shall be effective from the date by which the evidence is to be submitted under sub-paragraph (a) of Sub-Clause 18.1 [General Requirements for Insurances], until the date of issue of the Taking-Over Certificate for the Works.
- 1822 The insuring Party shall maintain this insurance to provide cover until the date of issue of the Performance Certificate, for loss or damage for which the Contractor is liable arising from a cause occurring prior to the issue of the Taking-Over Certificate, and for loss or damage caused by the Contractor in the course of any other operations (including those under Clause 11 [Defects Liability]).
- 1823 The insuring Party shall insure the Contractor's Equipment for not less than the full replacement value, including delivery to Site. For each item of Contractor's Equipment, the insurance shall be effective while it is being transported to the Site and until it is no longer required as Contractor's Equipment.
- 182.4 Unless otherwise stated in the Special Conditions, insurances under this Sub-Clause:
 - a) Shal lbe effected and maintained by the Contractor as insuring Party,
 - b) shall be in the joint names of the Parties, who shall be jointly entitled to receive payments from the insurers, payments being held or allocated to the Party actually bearing the costs of rectifying the loss or damage,
 - c) shall cover all loss and damage from any cause not listed in Sub-Clause 17.3 [Procuring Entity's Risks],
 - d) shall also cover, to the extent specifically required in the tendering documents of the Contract, loss or damage to a part of the Works which is attributable to the use or occupation by the Procuring Entity of another part of the Works, and loss or damage from the risks listed in sub-paragraphs (c), (g) and (h)of Sub-Clause 17.3 [Procuring Entity's Risks], excluding (in each case) risks which are not insurable at commercially reasonable terms, with deductibles per occurrence of not more than the amount stated in the Special Conditions of Contract (if an amount is not so stated,t his sub-paragraph (d) shall not apply), and
 - e) may however exclude loss of, damage to, and reinstatement of:
 - i) a part of the Works which is in a defective condition due to a defect in its design, materials or workmanship (but cover shall include any other parts which are lost or damaged as a direct result of this defective condition and not as described in sub-paragraph (ii) below),
 - ii) apart of the Works which is lost or damaged inorder to reinstate any other part of the Works if this other part is in a defective condition due to a defect in its design, materials or workmanship,
 - iii) apart of the Works which has been taken over by the Procuring Entity, except to the extent that the Contractor is liable for the loss or damage, and
 - iv) Goods while they are not in Kenya, subject to Sub-Clause 14.5 [Plant and Materials intended for the Works].
- 1825 If, more than one year after the Base Date, the cover described in sub-paragraph (d) above ceases to be available at commercially reasonable terms, the Contractor shall (as insuring Party) give notice to the Procuring Entity, with supporting particulars. The Procuring Entity shall then (i) be entitled subject to Sub-Clause 2.5 [Procuring Entity's Claims] to payment of an amount equivalent to such commercially reasonable terms as the Contractor should have expected to have paid for such cover, and (ii) be deemed, unless he obtains the cover at commercially reasonable terms, to have approved the omission under Sub-Clause 18.1 [General Requirements for Insurances].

183 Insurance against Injury to Persons and Damage to Property

183.1 The insuring Party shall insure against each Party's liability for any loss, damage, death or bodily injury which may occur to any physical property (except things insured under Sub-Clause 18.2 [Insurance for Works

and Contractor's Equipment]) or to any person (except persons insured under Sub-Clause 18.4 [Insurance for Contractor's Personnel]), which may arise out of the Contractor's performance of the Contract and occurring before the issue of the Performance Certificate.

- 1832 This insurance shall be for a limit per occurrence of not less than the amount stated in **the Special Conditions** of **Contract**, with no limit on the number of occurrences. If an amount is not stated in the **Special Conditions** of **Contract**, this Sub-Clause shall not apply.
- 1833 Unless otherwise stated in the Special Conditions, the insurances specified in this Sub-Clause:
 - a) Shall be effected and maintained by the Contractor as insuring Party,
 - b) shall be in the joint names of the Parties,
 - c) shall be extended to cover liability for all loss and damage to the Procuring Entity's property (except things insured under Sub-Clause 18.2) arising out of the Contractor's performance of the Contract, and
 - d) may however exclude liability to the extent that it arises from:
 - i) the Procuring Entity's right to have the Permanent Works executed on, over, under, in or
 - ii) through any land, and to occupy this land for the Permanent Works,
 - iii) damage which is an unavoidable result of the Contractor's obligations to execute the
 - iv) Works and remedy any defects, and
 - v) a cause listed in Sub-Clause 17.3 [Procuring Entity's Risks], except to the extent that cover is available at commercially reasonable terms.

18.4 Insurance for Contractor's Personnel

- 18.4.1 The Contractor shall effect and maintain insurance against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractor or any other of the Contractor's Personnel.
- 18.42 The insurance shall cover the Procuring Entity and the Architect against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractoror any othe rof the Contractor's Personnel, except that this insurance may exclude losses and claims to the extent that they arise from any act or neglect of the Procuring Entity or of the Procuring Entity's Personnel.
- 18.4.3 The insurance shall be maintained in full force and effect during the whole time that these personnel are assisting in the execution of the Works. For a Subcontractor's employees, the insurance may be effected by the Subcontractor, but the Contractor shall be responsible for compliance with this Clause.

19. FORCE MAJEURE

19.1 Definition of Force Majeure

- 19.1.1 In this Clause, "Force Majeure" means an exceptional event or circumstance:
 - a) Which is beyond a Party's control,
 - b) Which such Party could not reasonably have provided against before entering into the Contract,
 - c) which, having arisen, such Party could not reasonably have avoided or over come, and
 - d) which is not substantially attributable to the other Party.
- 19.12 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, s olong as conditions (a) to (d) above are satisfied:
 - a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
 - b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
 - c) riot, commotion, disorder, strike or lock out by persons other than the Contractor's Personnel,
 - d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as maybeattributabletotheContractor'suseofsuchmunitions, explosives, radiation or radio-activity, and
 - e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.

19.2 Notice of Force Majeure

192.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall give notice to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event

or circumstance constituting Force Majeure.

- 1922 The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.
- 1923 Not withstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.

193 Duty to Minimize Delay

Each Party shall at all times use all reasonable endeavors to minimize any delay in the performance of the Contract as a result of Force Majeure. A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.

19.4 Consequences of Force Majeure

- 19.4.1 If the Contractor is prevented from performing his substantial obligations under the Contract by Force Majeure of which notice has been given under Sub-Clause 19.2 [Notice of Force Majeure], and suffers delay and/ or incurs Cost by reason of such Force Majeure, the Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) if the event or circumstance is of the kind described in sub-paragraphs (i) to (iv) of Sub-Clause 19.1 [Definition of Force Majeure] and, in sub-paragraphs (ii) to (iv), occurs in Kenya, payment of any such Cost, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause18.2 [Insurance for Works and Contractor's Equipment].
- 19.4.2 After receiving this notice, the Architect shall proceed in a coordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

195 Force Majeure Affecting Subcontractor

If any Subcontractor is entitled under any contract or agreement relating to the Works to relief from force majeure on terms additional to or broader than those specified in this Clause, such additional or broader force majeure events or circumstances shall not excuse the Contractor's non-performance or entitle him to relief under this Clause.

19.6 Optional Termination, Payment and Release

- 196.1 If the execution of substantially all the Works in progress is prevented for a continuous period of 84 days by reason of Force Majeure of which notice has been given under Sub-Clause 19.2 [Notice of Force Majeure], or for multiple periods which total more than 140 days due to the same notified Force Majeure, then either Party may give to the other Party a notice of termination of the Contract. In this event, the termination shall take effect 7 days after the notice is given, and the Contractor shall proceed in accordance with Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment].
- 19.62 Upon such termination, the Architect shall determine the value of the work done and issue a Payment Certificate which shall include:
 - a) theamountspayableforanyworkcarriedoutforwhichapriceisstatedintheContract;
 - b) the Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Procuring Entity when paid for by the Procuring Entity, and the Contractor shall place the same at the Procuring Entity's disposal;
 - c) other Cost or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works;
 - d) the Cost of removal of Temporary Works and Contractor's Equipment from the Site and the return of these items to the Contractor's works in his country (or to any other destination at no greater cost); and
 - e) the Cost of repatriation of the Contractor's staff and lab or employed wholly in connection with the Works at the date of termination.

19.7 Release from Performance

Not withstanding any other provision of this Clause, if any event or circumstance outside the control of the

Parties (including, but not limited to, Force Majeure) arises which makes it impossible or unlawful for either or both Parties to fulfil its or their contractual obligations or which, under the law governing the Contract, entitles the Parties to be released from further performance of the Contract, then upon notice by either Party to the other Partyofsucheventorcircumstance:

- a) The Parties shall be discharged from further performance, without prejudice to the rights of either Party in respect of any previous breach of the Contract, and
- b) The sum payable by the Procuring Entity to the Contractor shall be the same as would have been payable under Sub-Clause 19.6 [Optional Termination, Payment and Release] if the Contract had been terminated under Sub-Clause 19.6.

20. SETTLEMENT OF CLAIMS AND DISPUTES

20.1 Contractor's Claims

- 20.1.1 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 <u>Notice to the Engineer</u>, 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.
- 20.12 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.
- 20.13 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.
- 20.14 TheContractorshallkeepsuch contemporary records as may be necessary to substantiate any claim, either on the Site or at an other location acceptable to the Engineer. Without admitting the Procuring Entity's liability, the Architect 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 Architect to inspect all these records and shall (if instructed) submit copies to the Engineer.
- 20.15 Within 42days 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 Engineer, the Contractor shall send to the Architect 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 Architect may reasonably require; and
 - c) The Contractor shall send a final claim within 30 days after the end of the effects resulting from the eventor circumstance, or within such other period as may be proposed by the Contractor and approved by the Engineer.
- 20.16 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 Architect and approved by the Contractor, the Architect 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.
- 20.1.7 Within the above defined period of 42 days, the Architect 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.
- 20.18 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.
- 20.19 If the Architect does not respond within the time frame defined in this Clause, either Party may consider that the claim is rejected by the Architect and any of the Parties may refer the dispute for amicable settlement in

accordance with Clause 20.3.

20.1.10 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 20.3.

20.2 Procuring Entity's Claims

- 202.1 If the Procuring Entity considers itself to be entitled to any payment under any Clause of these Conditionsor otherwise in connection with the Contract, and/or to any extension of the Defects Notification Period, the Procuring Entity or the Architect shall give notice and particulars to the Contractor. However, notice is not required for payments due under Sub-Clause 4.19 [Electricity, Water and Gas], under Sub-Clause 4.20 [Procuring Entity's Equipment and Free-Issue Materials], or for other services requested by the Contractor.
- 2022 The notice shall be given as soon as practicable and no longer than 30 days after the Procuring Entity became aware, or should have become aware, of the event or circumstances giving rise to the claim. A notice relating to any extension of the Defects Notification Period shall be given before the expiry of such period.
- 2023 The particulars shall specify the Clause or other basis of the claim and shall include substantiation of the amount and/or extension to which the Procuring Entity considers itself to be entitled in connection with the Contract. The Architect shall then proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the amount (if any) which the Procuring Entity is entitled to be paid by the Contractor, and/ or (ii) the extension (if any) of the Defects Notification Period in accordance with Sub-Clause 11.3 [Extension of Defects Notification Period].
- 2024 This amount may be included as a deduction in the Contract Price and Payment Certificates. The Procuring Entity shall only be entitled to set off against or make any deduction from an amount certified in a Payment Certificate, or to otherwise claim against the Contractor, in accordance with this Sub-Clause.

20.3 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 20.1 above should move to commence arbitrationa fter 60 days from the day on which a notice of a claim was given, even if no attempt at an amicable settlement has been made.

20.4 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) Whether or not the issue of an instruction by the Architect is empowered by these Conditions.
- b) Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.
- c) Any dispute arising in respect risks arising from matters referred to in Clause 17.3 and Clause 19.
- e) 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.

20.5 Arbitration

- 205.1 Any claim or dispute between the Parties arising out of or in connection with the Contract not settled amicably in accordance with Sub-Clause 20.3 shall be finally settled by arbitration.
- 2052 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.
- 2053 Not withstanding 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.

- 205.4 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 a ward any sums which ought to have been the subject of or included in any certificate.
- 2055 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 require mentor notice had been given.
- 205.6 The arbitrators shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Engineer, relevant to the dispute. Nothing shall disqualify representatives of the Parties and the Architect from being called as a witness and giving evidence before the arbitrators on any matter whatsoever relevant to the dispute.
- 205.7 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.
- 205.7 Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, and the Architect shall not be altered by reason of any arbitration being conducted during the progress of the Works.
- 2058 The terms of the muneration 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.

20.6 Arbitration with National Contractors

- 206.1 If the Contractis with national contractors, arbitration proceedings will be conducted in accordance with the Arbitration Laws ofKenya. 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
- 20.62 The institution written to first by the aggrieved party shall take precedence over all other institutions.

20.7 Arbitration with Foreign Contractors

- 20.7.1 Arbitration with foreign contractors shall be conducted in accordance with the arbitration rules of the United Nations Commission on International Trade Law (UNCITRAL); or with proceedings administered by the International Chamber of Commerce (ICC) and conducted under the ICC Rules of Arbitration; by one or more arbitrators appointed in accordance with said arbitration rules.
- 20.72 The place of arbitration shall be a location specified in the SCC; and the arbitration shall be conducted in the language for communications defined in Sub-Clause1.4 [Law and Language].

20.8 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.

20.9 Failureto Comply with Arbitrator's Decision

209.1 The award of such Arbitrator shall be final and binding up on the parties.

2092 In the even 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.

20.10 Contract operations to continue

Notwithstanding any reference to arbitration herein,

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

Section IX - Special Conditions of Contract

The following Special Conditions shall supplement the GCC. Whenever there is a conflict, the provisions here in shall prevail over those in the GCC.

Conditions	Sub- Clause	Data
		Part A - Contract Data
Procuring Entity's name and address	Heading	State Department for Lands and Physical Planning. P.O. BOX 30450 – 00100, Nairobi.
Name and Reference No. of the Contract	Heading and 1.1	PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I.
		W.P. ITEM NO: BD 1112 EN/KIT/2201 - JOB NO. 11075A
Engineers Name and address	Heading and 3.1.1	STATE DEPARTMENT FOR PUBLIC WORKS P. O. BOX 30743-00100, NAIROBI.
		The firm shall provide the following consultants:
		Project Manager: Works Secretary.
		Project Architect: Chief Architect.
		Project Quantity Surveyor: Chief Quantity Surveyor.
		Project Mechanical Engineer: Chief Engineer Mechanical, (BS).
		<u>Project Electrical Engineer:</u> Chief Engineer Electrical, (BS).
		Project Structural/Civil engineer: Chief Engineer Structural.
		Project Interior Designer: Chief Designer.
Contractor's Representative's name	4.3.1	
Key Personnel names	16.9.1	
Time for Completion	1.1.	78 Weeks from the date of site possession
Defects Notification Period	1.1	Immediately and not later than 6 Months after practical completion.
Sections	1.1	N/A
Electronic transmission systems	1.3	
Time for the Parties entering into a Contract Agreement	1.6	Within 14 days after notification of award of contract
Commencement Date	8.1.1	To be Agreed with the Project Manager
Time for access to the Site	2.1.1	No earlier than the Commencement Date, and not later than 14 days after Commencement Date
Architect Duties and Authority	3.1.6 (b) (ii)	Variations resulting in an increase above the Contract Amount shall require approval of the Procuring Entity.
Performance Security	4.2.1	The performance security will be in the form of a performance bond in the amount(s) of 5 percent of the Accepted Contract Amount and in the same currency(ies) of the Accepted Contract Amount.
Normal working hours	6.5	As per labor laws and regulations of Kenya
Delay damages for the Works	8.7 & 14.15(b)	0.005% of the agreed contract price per day

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Conditions	Sub-	Data
	Clause	
Maximum amount of delay	8.7.1	5% of the final Contract Price.
damages		
Provisional Sums	13.6. (b)(ii)	Subject to remeasurement
Adjustments for Changes in	13.9	Use indices published by the Kenya National Bureau
Cost		of Statistics
Total advance payment	14.2.1	Not more than 20% of the contract sum
Repayment amortization rate of	14.2.5 (b)	Between 20% to 80%
advance payment		
Percentage of Retention	14.3.2 (c)	10%
Limit of Retention Money	14.3.2 (c)	5% of the Accepted Contract Price
Plant and Materials		If Sub-Clause 14.5 applies:
	14.5.3(b)(i)	Plant and Materials for payment Free on Board
	14.5.3(c)(i)	Plant and Materials for payment when delivered to the Site _ Plant
		and Materials to be Incorporated into Permanent WorK.
Minimum Amount of Interim	14.6.2	N/A
Payment Certificates		
Publishing source of	14.8	The rate per month of interest on delayed payment will be
commercial interest rates for		3 percentage points above the Central Bank of
financial charges in case of		Kenya's average rate for base lending
delayed payment		prevailing as of the first day the payment
		becomes overdue
Maximum total liability of the	17.6.2	The product of zero point one (0.10) times the
Contractor to the Procuring		Accepted Contract Amount.
Entity		
Periods for submission of	18.1.6	
insurance:		
a. evidence of insurance.		14 days
b. relevant policies		14 days
Maximum amount of	18.2.4 (d)	
deductibles for insurance of the		As per applicable laws
Procuring Entity's risks		
Minimum amount of third-party	18.3.2	As per applicable laws
insurance		
The place of arbitration	20.7.2	To be agreed by parties

SECTION X - CONTRACT FORMS

FORM No. 1 - NOTIFICATION OF INTENTION TO AWARD

FORM NO. 2 – REQUEST FOR REVIEW

FORM No. 3-LETTER OF AWARD

FORM No. 4 - CONTRACT AGREEMENT

FORM No. 5 - PERFORMANCE SECURITY [Option 1 - Unconditional Demand Bank Guarantee]

FORM No. 6- PERFORMANCE SECURITY [Option 2– Performance Bond]

FORM No. 7 - ADVANCE PAYMENT SECURITY

FORM No. 8 - RETENTION MONEY SECURITY

FORM No 1: NOTIFICATION OF INTENTION TO AWARD OF CONTRACT

This Notification of Award shall be sent to each Tenderer that submitted a Tender and was not successful. 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. <u>Date of transmission</u>: [*email*] on [*date*] (local time)

This Notification is sent by (Name and designation)

3. <u>Notification of Award</u>

- *i)* Procuring Entity: [insert the name of the ProcuringEntity]
- *ii)* Project: [insert name ofproject]
- *iii)* Contract title: *[insert the name of thecontract]*
- *iv)* ITT No: [insert ITT reference number from ProcurementPlan]

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 by submitting a Procurement-related Complaint in relation to the decision to award the contracts.
 - a) The successful tenderers
 - i) Name of successful Tender_____
 - ii) Address of the successful Tender

- b) The reasons for your tender being unsuccessful are as follows:
- c) OtherTenderers

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.

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. <u>How to request a debriefing</u>

- a) DEADLINE: The dead line 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]
 - iii) Agency: [insert name of Procuring Entity]
 - iv) 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 receip tof 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 a vailable from the Website <u>www.ppra.go.ke</u>.

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:			

FORM NO. 2- REQUEST FOR REVIEW

FORM FOR REVIEW (r.203(1))

PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

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

BETWEEN

.....APPLICANT

AND

......RESPONDENT (Procuring Entity)

REQUEST FOR REVIEW

I/We	., the above named Applicant(s), of address: Physical address	P. O. Box No
Tel. NoEmail	, hereby request the Public Procurement Administrative Review	Board to review the whole/part of
the above mentioned decision or	the following grounds, namely:	
1.		

2.

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

1.

2.

SIGNEDday of/...20.....

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

SIGNED

Board Secretary

FORM NO 3: LETTER OF AWARD

letterhead paper of the Procuring Entity]

[date]

To: [name and address of the Contractor]

You are requested to furnish the Performance Security within 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 4: CONTRACT AGREEMENT

THIS AGREEMENT made the day of		
of		the Procuring
Entity"), of the one part, and	of	(hereinafter
"the Contractor"), of the other part:		

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) theNotification of Award
 - b) the Form 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 here by 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 here by covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects there in, 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.

INWITNESS where of the parties here to have caused this Agreement to be executed in accordance with the Laws of Kenya on the day, month and year specified above.

Signeda nd sealed by	((for the P	rocuring	Entity)

Signed and sealed by	J ((for the Contractor	·).

FORM NO. 5 - 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 informedthat _______(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. Atthe request of the Contractor, we as Guarantor, here by irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of ______(in words),¹ 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 it self 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, 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]*, inresponse 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.

¹The 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.

²Insert 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. 6- PERFORMANCE SECURITY

[Option 2– Performance Bond]

[Note: Procuring Entities a readvised to use Performance Security – Unconditional Demand Bank Guarantee in stead of Performance Bond due to difficulties involved in calling Bond holder to action]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[insertnameandAddressof* ProcuringEntity]

Date: [Insert date of issue]

PERFORMANCE BOND No.:_____

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

- 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 there to, which to the extent here in provided for, are by reference made part here of and are here in after 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 there under, the Surety may promptly remedy the default, or shall promptly:
 - a) Complete the Contract in accordance with its terms and conditions; or
 - b) 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 a vailable 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
 - c) Pay the Procuring Entity the amount required by Procuring Entity to complete the Contract in accordance with its terms and conditions upto 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 here in or the heirs, executors, administrators, successors, and assigns of the Procuring Entity.
- In testimony whereof, the Contractor has here unto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly at tested by the signature of his legal representative, this day ______ of ______.

SIGNED ON	_on behalf of
By	in the capacity of
Inthepresence of	
SIGNED ON	on behalf of
By	in the capacity of
Inthepresence of	

FORM NO. 7 - ADVANCE PAYMENT SECURITY

[Demand Bank Guarantee]

[Guarantor letterhead]

Beneficiary: [Insert name and Address of ProcuringEntity]

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]

- 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, here by irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of ______(in words ______)' 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 <u>at</u>.
- 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, oronthe ______ dayof _____, 2____, ² whichever is earlier. Consequently, any 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.

¹The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency of the advance paymen tas specified in the Contract.

²Insert 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. 8 – 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 executionof ______ [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 upto 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______]*)^t upon receipt by us of the Beneficiary's complying demands upported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifyingthedemand, stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or showgrounds for your demand or the sum specified there in.
- 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......², 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.

¹The Guarantor shall insert an amount representing the amount of the second half of the Retention Money.

²Insert 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.

FORM NO. 9 BENEFICIAL OWNERSHIP DISCLOSURE FORM

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

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

This Beneficial Ownership Disclosure Form ("Form") is to be completed by the successful tenderer pursuant to Regulation 13 (2A) and 13 (6) of the Companies (Beneficial Ownership Information) Regulations, 2020. In case of joint venture, the tenderer must submit a separate Form for each member. The beneficial ownership information to be submitted in this Form shall be current as of the date of its submission.

For the purposes of this Form, a Beneficial Owner of a Tenderer is any natural person who ultimately owns or controls the legal person (tenderer) or arrangements or a natural person on whose behalf a transaction is conducted, and includes those persons who exercise ultimate effective control over a legal person (Tenderer) or arrangement.

Tender Reference No.:[insert identification no	<i>o</i>]
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Name of the Tender Title/Description: [insert name of the assignment] to:

[insert complete name of Procuring Entity]

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

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

Details of Beneficial ownership

	Details of all Beneficial Owners	% of shares a person holds in the company Directly or indirectly	% of voting rights a person holds in the company	Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer (Yes / No)	Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)	
	Full Name	Directly	Directly	1. Having the right to		
1.	National identity card number or Passport number	%		0	appoint a majority of the board of the directors or a equivalent governin	over the Company body of the Company (tenderer)
	Personal Identification Number (where applicable)	Indirectly % of shares	Indirectly % of voting rights	body of the Tenderer: YesNo2. Is this right held directly or indirectly?:	YesNo 2. Is this influence or control exercised	
	Nationality				directly or	
	Date of birth [dd/mm/yyyy]			Direct	indirectly?	
	Postal address				Direct	
	Residential address			Indirect	Indirect	
	Telephone number					
	Email address					
	Occupation or profession					

	Details of all Beneficial Owners	% of shares a person holds in the company Directly or indirectly	% of voting rights a person holds in the company	Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer (Yes / No)	Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)
2.	Full Name National identity card number or	Directly % of shares	Directly % of voting rights	1. Having the right to appoint a majority of the board of the directors or an	1. Exercises significant influence or control over the Company body of
	Passport number Personal Identification Number (where applicable)	Indirectly % of shares	Indirectly % of voting rights	directors or an equivalent governing body of the Tenderer: YesNo 2. Is this right held directly or indirectly?:	the Company (tenderer) YesNo 2. Is this influence or
	Nationality(ies) Date of birth [dd/mm/yyyy]			Direct	control exercised directly or indirectly? Direct
	Postal address Residential address Telephone number			Indirect	Indirect
	Email address Occupation or profession				
3.					
e.t .c					

- II) Am fully aware that beneficial ownership information above shall be reported to the Public Procurement Regulatory Authority together with other details in relation to contract awards and shall be maintained in the Government Portal, published and made publicly available pursuant to Regulation 13(5) of the Companies (Beneficial Ownership Information) Regulations, 2020.(Notwithstanding this paragraph Personally Identifiable Information in line with the Data Protection Act shall not be published or made public). Note that Personally Identifiable Information (PII) is defined as any information that can be used to distinguish one person from another and can be used to deanonymize previously anonymous data. This information includes National identity card number or Passport number, Personal Identification Number, Date of birth, Residential address, email address and Telephone number.
- III) In determining who meets the threshold of who a beneficial owner is, the Tenderer must consider a natural person who in relation to the company:
 - (a) holds at least ten percent of the issued shares in the company either directly or indirectly;
 - (b) exercises at least ten percent of the voting rights in the company either directly or indirectly;
 - (c) holds a right, directly or indirectly, to appoint or remove a director of the company; or
 - (d) exercises significant influence or control, directly or indirectly, over the company.

IV) What is stated to herein above is true to the best of my knowledge, information and belief.

Name of the Tenderer:*[insert complete name of the Tenderer]_____

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

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

Bidder Official Stamp

PREAMBLES & PRICING NOTES

PREAMBLES AND PRICING NOTES

A. GENERALLY

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

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, Public Works and Housing "Specification for Metric Sized Concrete Blocks for Building (1972)" or as qualified or amended.

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 as 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 Mvule 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.

F. IRONMONGERY

Ironmongery shall be as 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 quality, he must inform the Project Manager and obtain approval in writing.

G. STRUCTURAL STEELWORK

All structural steelwork shall comply with the Ministry of Public Works "Structural Steelwork Specification (1973) or as qualified or amended and shall be executed by an approved Sub-contractor.

H. PLASTERWORK AND OTHER FINISHES

All finishings 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.

I. 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.

J. PAINTING

All paint shall be 1st quality "Crown" or other equal and approved

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.

K. 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

L. 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

BILLS OF QUANTITIES

BILL NO. 1 - PRELIMINARIES

Section No.1 - Particular Preliminaries

ITEM	DESCRIPTION	AMOUNT (KSHs.)
	<u>BILL NO. 1 - PRELIMINARIES</u> SECTION NO.1 - PARTICULAR PRELIMINARIES	
А	EMPLOYER	
	The Employer is The Principal Secretary, State Department for Lands. The term "Employer" and "Government" wherever used in the contract document shall be synonymous.	
В	PROJECT MANAGER	
	The term "PM" wherever used in these Bills of Quantities shall be deemed to mean the "The Engineer" as per 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 .	
с	ARCHITECT	
	The term "Architect" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is State Department for Public Works, P.O Box 30743 -00100, NAIROBI.	
D	QUANTITY SURVEYOR	
	The term "Quantity Surveyor" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is State Department for Public Works, P.O Box 30743 -00100, NAIROBI.	
E	ELECTRICAL ENGINEER	
	The term "Electrical Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is State Department for Public Works, P.O Box 30743 -00100, NAIROBI.	
F	MECHANICAL ENGINEER	
	The term "Mechanical Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is State Department for Public Works, P.O Box 30743 -00100, NAIROBI.	
G	STRUCTURAL ENGINEER	
	The term "Structural Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is State Department for Public Works, P.O Box 30743 -00100, NAIROBI.	
н	CHIEF DESIGNER	
	The term "Chief Designer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is State Department for Public Works, P.O Box 30743 -00100, NAIROBI.	
	Total Carried to Collection	<u> </u>

ITEM	DESCRIPTION	AMOUNT (KSHs.)
A	PRICING ITEMS OF PRELIMINARIES	
	Prices SHALL BE INSERTED against items of "preliminaries" in the tenderer's priced Bills of Quantities. The contractor is advised to read and understand all preliminary items.	
В	SCOPE OF CONTRACT	
	The works to be carried out under this contract comprise of Construction of a Multistorey Office Block; constituting Builder's Works, Electrical and Mechanical orks as described in these Bills of Quantities	
с	DESCRIPTION OF THE WORKS	
_	The works to be carried out under this contract comprise of Construction of a Multistorey Office Block; constituting Builder's Works, Electrical and Mechanical orks as described in these Bills of Quantities	
	MEASUREMENTS	
	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 the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with the said Conditions.	
	All measurements shall be as per Standard Method of Measurements (SMM) - 2008 Edition	
	Carried to Particular Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
А	LOCATION OF SITE	
	The site for the proposed works is located at Mutomo Town, Kitui County; approximately 70 Kilometres southwards from Kitui town. It is 4 Kilometres off Kitui- Kibwezi Road, and opposite the Mutomo Law Courts. Google maps address is <i>https://maps.app.goo.gl/xcWc4y1DosCzf1CKA</i> or coordinates 1°50'55.9"S, 38°12'59.7"E. 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.	
В	SIGNING OF THE TENDER DOCUMENTS	
	The bidder shall append his/her signature and/or company's rubberstamp on each and every page of tender document.	
с	DEMOLITIONS AND ALTERATIONS	
	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 excecuted to the satisfaction of the Project Manager.	
	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.	
	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.	
	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.	
	Carried to Particular Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
A	CLEARING AWAY 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. 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.	
В	CLAIMS 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.	
с	PAYMENTS 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: Refer with Special Conditions of Contract. 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.	
D	PREVENTION OF ACCIDENT, DAMAGE OR LOSS The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other nomal 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.	
E	WORKING CONDITIONS	
	The Contractor shall allow in his rates for any interferance 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.	
F	SIGNBOARD 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. The signboard shall give a brief title of the project and image	
	The Signboard and lettering on same for the display of the General and Sub- Contractors' names shall be of an approved size with the Employer's name painted thereon. The Project Manager, and other Consultants' names shall be printed in 50 mm letters all to the Architect's approved design.	
	No other signboard or advertising will be permitted without prior permission from the Architect.	
G	LABOUR CAMPS The Contractor shall be allowed to house labour on site. Allow for site huts for workers during the tenure of the contract.	
	Carried to Particular Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT	(KSHs.)
А	MATERIALS FROM DEMOLITIONS		
	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.		
В	PRICING RATES		
	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.		
С	SECURITY		
	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.		
D	URGENCY OF THE WORKS		
	The Contractor is notified that these " works are urgent " and should be completed within the period stated in these Particular Preliminaries. 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.		
E	PAYMENT FOR MATERIALS ON SITE		
	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.		
F	EXISTING SERVICES		
	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.		
G	CONTRACT COMPLETION PERIOD		
	The contract completion period in accordance with the Conditions of contract must be adhered to.		
	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.		
	Carried to Particular Preliminaries collection		

ITEM	DESCRIPTION	AMOUNT (KSHs.)
А	PERFORMANCE BOND	
	A bond of 5% of the contract sum will be required in accordance with the Special Conditions of Contract on award of contract. 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.	
В	TENDER DOCUMENTS	
	Tender documents are as listed in Page (i) of the Tender Document.	
с	DELIVERY OF TENDER	
	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. 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 opened.	
D	VALUE ADDED TAX	
	The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1 st 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.	
	The tenderer is advised that in accordance with Government public notice No. 35 & 36 Dated 11 th September 2003 operational from 1 st 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.	
	NB : The Contractor should therefore include the VAT tax within the rates.	
E	EXISTING BUILDING MATERIALS	
	NOTE: Any materials found usable for the works shall be given to the contractor on creidit with the approval of the client	
	Carried to Particular Preliminaries collection	

PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I.

ITEM	DESCRIPTION	AMOUNT (KSHs.)
	SPECIAL PRELIMINARIES	
	PROJECT MANAGEMENT EXPENSES	
A	Allow a sum of Kenya Shillings Three Million Five Hundred Thousand (KShs.3,500,000.00) only for Project Management Expenses for the duration of the contract period.	3,500,000.00
В	Allow for Contractor's profit and overheads (%)	
с	Allow a sum of Kenya Shillings Six Hundred Thousand (KShs.600,000.00) Only for Clerk of Works allowances	600,000.00
D	Allow for profits and attendance%	
	Carried to Particular Preliminaries collection	

	DESCRIPTION	AMOUNT (KSH
PARTICULARS OF INSERTION AGREEMENT	NS TO BE MADE IN APPENDIX TO CONTRACT	
The following are the insertion Agreement: -	is to be made in the appendix to the Contract	
Period of Final Measurement	3 Months From Practical completion	
Defects Liability Period	6 Months from Practical completion	
Date for Possession	To be agreed with the Project Manager	
Date for Completion	As Stated in the Special Conditions of Contract	
Liquidated and Ascertained D	Damages - As Stated in Special Conditions of Contract	
Period of Interim Certificates	Monthly	
Period of Honouring Certifica contract [14.7.1]	tes 60 days as per Conditions of	
Percentage of Certified Value	Retained 5 of the contract price	
	Carried to Particular Preliminaries collection	

PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I.

ITEM	DESCRIPTION	AMOUNT (KSHs.)
	<u>COLLECTION</u>	
	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	
	TOTAL SECTION NO.1 - PARTICULAR PRELIMINARIES CARRIED TO PRELIMINARIES SUMMARY	

Section No.2 - General Preliminaries

ITEM	DESCRIPTION	AMOUNT (KSHs.)
	<u>BILL NO. 1 - PRELIMINARIES</u> SECTION NO.2 - GENERAL PRELIMINARIES	
A.	PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES	
	Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.	
	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.	
В.	ABBREVIATIONS	
	Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-	
	C.M. Shall mean cubic metre	
	<i>S.M.</i> Shall mean square metre	
	L.M. Shall mean linear metre	
	MM Shall mean Millimetre	
	Kg. Shall mean Kilogramme	
	No. Shall mean Number	
	Prs. Shall mean Pairs	
	B.S.Shall mean the British Standard specificationPublished by the BritishStandardsInstitution, 2 Park Street, London W.I., England.	
	Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs.	
	m.s. Shall mean measured separately.	
	a.b.d Shall mean as before described.	
	Carried to General Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
Α.	EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT <i>Attendance;</i> Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-	
	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 the same.	
	Fix Only:-	
	"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.	
B	FORM OF CONTRACT The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document - Tender Documents for Small Works (2021 Edition) included herein:	
c	PLANT, TOOLS AND VEHICLES 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.	
	The Contractor shall provide all necessary hoists, tackle, plant, vehicles, tools and appliances of every description for the due and satisfactory completion of the Works and shall remove same on completion.	
	All materials and workmanship used in the execution of the works shall be of the best quality and description for the due and satisfatory completion of the works and shall remove the same on completion.	
	The Contractor shall provide, erect and maintain all temporary scaffolding, sufficiently strong and efficient for the due performance of the Works, including Sub-contract Works, provide special scaffolding as and when required during the Works including all sub-contracted works and remove on completion and make good.	
	Such scaffolding shall be constructed of tubular steel or timber of sufficient scantlings and be provided with planked footways and guard-rails to approval.No timber used for scaffolding ,formwork or similar temporary works shall be used afterwards in the permanent work.	
	All such plant, tools and scaffolding shall comply with all regulations whether general or local, in force throughout the period of the Contract and shall be altered or adapted during the Contract as may be necessary to comply with any amendments in or additions to such regulations.	
	Scaffolding is not measured hereinafter, and the Contractor must allow here or in his rates for the above.	
D	TRANSPORT. Do 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.	
	Carried to General Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
A	MATERIALS AND WORKMANSHIP.	
	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.	
В	SIGN FOR MATERIALS SUPPLIED.	
	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.	
с	STORAGE OF MATERIALS	
	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.	
D	SAMPLES	
	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.	
	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.	
	No alternte rate shall be offered on account that the employer has chosen a superior finish unless the bidder had attached the sample he priced.	
E	SETTING OUT	
	The contractor shall set out the works according to drawings and shall be responsible for its correctness and shall be required to amend any errors arising from inaccurate settting out at his own cost and expense. Any discrepancies on the dimensions or levels marked on the drawingsshould be reported to the architect for their immediate attention and the contractor shall only proceed after the architect's instructions to adjust the same. No claim for extra time, expense or relief fom provisions of the conditions of the contract may be made there after	
	Before any works are commenced by sub-contractors or specialist, dimensions must be checked by and agreed with the contractor. The contractor shall be responsible for the accuracy of such dimensions.	
	Carried to General Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
A	GOVERNMENT ACTS REGARDING WORK, PEOPLE ETC.	
	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.	
	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.	
В	SECURITY OF WORKS ETC.	
	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 securityagainst theft, loss or damage and the protection of the public.	
с	PUBLIC AND PRIVATE ROADS.	
	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.	
D	EXISTING AND ADJACENT PROPERTY	
	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	
	The Contractor will be held fully responsible for the safety of the existing and adjacent buildings and for any damage caused in consequence of these Works. They must reinstate all damages at his own expense and indemnify the Employer against any loss. There are exisiting paving blocks that may be damaged in course of the works and as such the contractor is adviced to include in their rates the cost of making good such	
	The Contractor must take such steps and exercise such care and diligence as to minimise nuisance from dust, noise or any other cause to the occupiers of the existing and adjacent property.	
Е	AREA TO BE OCCUPIED BY THE CONTRACTOR	
	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	
	The contractor to allow for provision of snacks and soft drinks to participants during site inspections and meetings	
	The entire site is a non-smoking area.	
	Carried to General Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
A	WATER AND ELECTRICITY SUPPLY FOR THE WORKS	
	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.	
В	SUPERVISION AND WORKING HOURS	
	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.	
с	provisional sums.	
	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. Such sums are net and no addition shall be made to them for profit.	
D	PRIME COST (OR P.C.) SUMS.	
	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. Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods as stated in 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.	
Ε	PROGRESS CHART.	
	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.	
	At the end of each month, the contractor shall incorporate actual start and finish dates into the time schedule and produce an update on the programme. The update is to show actual start and finish dates, identify out sequence of activities, critical acivities and any constraints which may have or may affect the progress of the works.	
F	ADJUSTMENT OF P.C. SUMS.	
	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.	
	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.	
	Carried to General Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
A	NOMINATED SUB-CONTRACTORS	
	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 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".	
В	DIRECT CONTRACTS	
	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.	
с	ATTENDANCE UPON OTHER TRADESMEN, ETC.	
	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.	
D	REMOVAL OF RUBBISH	
	Removal of rubbish and debris from the Building and the site as it accumulates and at he completion of the works and removal all plant, scaffolding and unused materials at completion.	
Е	INSURANCE	
	The Contractor shall insure as required in 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.	
F	PROVISIONAL WORK	
	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.	
	Carried to General Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
A	ALTERATIONS TO BILLS, PRICING, ETC.	
	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.	
В	PROTECTION OF THE WORKS.	
	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.	
c	WORKS TO BE DELIVERED UP CLEAN	
	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.	
D	GENERAL SPECIFICATION.	
	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.	
E.	HOARDING	
	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 for a total length of approximately three hundred meters. 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.	
F.	OFFICE ETC. FOR THE PROJECT MANAGER	
	The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the type noted in the Particular Preliminaries, complete with Furniture. 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 completed before the Contractor is permitted to commence the works. The Office and closet shall be completed before 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.	
	Carried to General Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
A	TRAINING LEVY	
	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.	
B	MATERIALS ON SITE	
	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.	
D	CONTRACTOR'S SUPERINTENDENCE/SITE AGENT	
	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.	
F	PROTECTIVE CLOTHING	
	The Contractor shall provide all protective or any other special clothing or equipment for their employees that may be necessary.	
	These shall include, inter-alia, safety helmets, gloves, goggles, earmuffs, gumboots, steel toed boots, overalls, etc according to the type of work. The Contractor shall ensure that all safety and protective gear are worn by all staff on site at all times	
G	CAPACITY BUILDING LEVY	
	The Contractor's attention is drawn to the Legal Notice no.206, section no.3(1) of 6th November 2023, which requires payment by the Contractors/Suppliers a Capacity Building Levy on all procurement contracts at the rate of zero point zero three per centum (0.03%) of the value of the signed contract, exclusive of applicable taxes.	
с	BID SECURITY	
	The Bidder shall furnish, as part of his bid, a security as specified in the tender advertisement.	
	The bid security shall, at the bidder's option, be in the form of a certified cheque, bank draft, standby letter of credit or guarantee from a reputable bank located in Kenya or foreign bank which has been determined by the bidder to be acceptable to the Government. The format of the bank guarantee shall be in accordance with the sample forms of bid security included in the post qualification forms, other formats may be permitted, subject to the prior approval of the Government. Letters of credit, bank	
	Guarantees issued as surety for the bid shall be valid for a period specified in the tender advertisement and procedures	
	Carried to General Preliminaries collection	

ITEM	DESCRIPTION	AMOUNT (KSHs.)
	COLLECTION	
	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	
	TOTAL SECTION NO.2 - GENERAL PRELIMINARIES CARRIED TO PRELIMINARIES SUMMARY	

PRELIMINARIES SUMMARY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	<u>BILL NO.1 - PRELIMINARIES</u> SUMMARY				
	SECTION NO.1 - PARTICULAR PRELIMINARIES				
	SECTION NO.2 - GENERAL PRELIMINARIES				
	TOTAL BILL NO.1 - PRELIMINARIES CARRIED TO GRAND SUMMARY			KSHS.	

BILL NO.2 - BUILDER'S WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	<u>BILL NO.2 - BUILDER'S WORKS</u> OFFICE BLOCK				
	Element No.1 - Substructure Works (All provisional)				
	Excavations Notes This element includes all structural works up to and including ground floor slab Tenderer to allow for working space in his rates. Reinforcement to BS 4449 / 4461:1997 , Grade 460B high strength type 2 ribbed bars with proof stress of 460 N/mm2. All cement to be "Bamburi Tembo 32.5", or equal and approved to SE approval. Excavations including trimming sides and bottoms of excavations; spoil heaping on site; double handling of excavated materials; maintaining and supporting sides; and keeping free from water, mud and fallen material; with and including destruction of termites nests within site of works,take out and destroy queens, impregnate holes and tunnels with insecticide and fill voids with approved material.				
	All excavations shall be measured net and no allowance shall be made for working space as per SMM D5(g).				
A	Cut down trees, 1200-1500mm girth from existing ground level including grubbing up itd roots and take them away	NO	10		
В	Clear site of lowlying bushes,shrubs and small trees including grubbing up their roots and burn the arising	SM	2,868		
С	Excavate top vegetable soil average depth 150mm to be deposited 80m away from site in spoil heaps to be used for landscaping	SM	924		
D	Excavate to reduce levels not exceeding 1.50 meters deep commencing from stripped level	СМ	832		
E	Excavate trenches for ground beam/foundation walling not exceeding 1.5metres commencing from reduced level	СМ	470		
F	Ditto exceeding 1.5metres but n.e 3.0metres	СМ	470		
G	Ditto exceeding 3.0metres but n.e 4.5metres	СМ	470		
Н	Excavate pits for column bases not exceeding 1.5metres commencing from reduced level	СМ	314		
J	Ditto exceeding 1.5metres but n.e 3.0metres	СМ	314		
К	Ditto exceeding 3.0metres but n.e 4.5metres	СМ	314		
L	Keep excavation free from water	ITEM			
М	Planking and strutting to uphold sides of excavation	ITEM			
	Total Carried Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Substructure Cont'd				
A	Extra over for rock excavation of any class	СМ	236		
В	<u>Filling and Disposal</u> Load and cart away excavated materials from site	СМ	656		
с	Return, fill and ram with selected and approved excavated material around excavations	СМ	1,986		
D	Approved imported fill to make up levels: spread levelled, watered, well rammed and compacted in layers not exceeding 150mm thick : to the satisfaction of the Structural Engineer	СМ	778		
E	<u>Hardcore</u> 300mm thick selected and handpicked harcore filing , depositing and compacting in layers of 150mm maximum thickness	SM	924		
F	50mm thick murram blinding to surfaces of fill	SM	924		
G	<u>Anti termite</u> Chemical anti-termite treatment, executed complete by an approved specialist under a ten-year guarantee, to surfaces of hardcore and vertical sides of excavated surfaces	SM	924		
н	<u>Damp-proof membrane</u> 500 gauge polythene or other equal and approved damp-proof membrane, laid over blinded hardcore (measured separately) with 300mm side and end laps (measured nett-allow for laps)	SM	924		
J	<u>Plain concrete (1:4:8) in</u> 50mm thick blinding to column bases,Lift Base and strip foundation	SM	533		
к	<u>Vibrated reinforced concrete class 25 (1:1.5:3) in:</u> Column Bases/Lift Base	СМ	84		
L	Ground Beams	СМ	36		
м	Strip footing foundation	СМ	47		
Ν	Columns	СМ	22		
Ρ	Steps & Ramps to Entry Porche	СМ	7		
Q	200mm thick Lift Shaft Walls	SM	15		
R	150mm Thick ground bed	SM	924		
	Total Carried to Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Substructure Cont'd				
	<u>Steel reinforcement deformed bar</u> including cutting to length, bending and fixing including all necessary tying wires, hooks and				
	spacing blocks to KS 573:2014:				
А	25 mm diameter bars	КG	2,397		
В	20 mm diameter bars	KG	4,395		
С	16 mm diameter bars	КG	2,797		
D	12 mm diameter bars	КG	4,994		
Е	10 mm diameter bars	KG	3,196		
F	8 mm diameter bars	KG	2,197		
G	Steel fabric mesh reinforcement to B.S. 4483 No. A142 fabric mesh weighing 2.22Kg/sm fixed in bed (measured net - no allowance made for laps) including bends, tying wire and distance blocks	SM	924		
н	Sawn Cypress timber formwork to: Vertical sides of Column Bases and shaft base	SM	280		
J	Vertical sides of Lift Shaft Walls	SM	29		
к	Vertical sides and Soffites of Ground Beam	SM	575		
L	Vertical sides of strip foundation footing	LM	1,044		
м	Vertical sides of Columns	SM	304		
Ν	Sides of sloping Steps and Ramp strings	SM	17		
Ρ	Edges of floor bed 75 - 150mm high	LM	152		
Q	Edges of risers girth exceeding 150mm but not exceeding 225mm	LM	22		
R	WaterProofing Waterproofing (internally) with "Sika® 1 Seal Waterproofing Slurry" or equal and approved material; in accordance with the manufacturer's specifications and SE'S approval To vertical walls of Lift in two coats each 2 mm thick at the rate of 1.6Kg per square metre	SM	15		
S	<u>Skin Walling</u> 100 mm Thick approved machine cut stones in lift skin walling; bedding and jointing in cement sand (1:4) mortar	SM	15		
	Total Carried to Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Substructure Cont'd				
	Form destan ANI-III				
	Foundation Walling Natural hard approved quarry stone walling with a crushing str				
	ength of 8.0 N/mm ² ; walling bedded and jointed in cement and				
	sand (1:4) mortar, reinforced with and including 25mm wide x 20				
	gauge hoop iron at every alternate course as described in:				
A	200mm Thick Foundation Walling	SM	1,400		
	Plinths				
В	15mm (min) thick cement and sand (1:4) render to plinths	SM	46		
С	Prepare and apply three coats bituminous paint to rendered plinths	SM	46		
	Paving Slabs.				
	Excavate for and lay 600 x 600 x 50 mm thick precast concrete				
D	paving slabs on 50mm thick quarry dust or murram bed including jointing and pointing in cement sand mortar mix (1:4)	SM	183		
	Expansion Joint				
Е	25mm thick "Styrofoam" filler between walls, columns etc	SM	20		
F	20 x 10mm Deep Hot applied sealant "Bitubond"	LM	12		
G	25mm Thick jumbolene sealant cord	LM	12		
	Total Carried to Collection				
	<u>COLLECTION:</u>				
	Brought forward from page BW/1				
	Brought forward from page BW/2				
	Brought forward from page BW/3				
	Brought forward from page above				
	Total Element No.1 - Substructure Works			KShs.	
	Carried to Office Block Summary				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Element No.2 - Reinforced Concrete Frame				
	Vibrated reinforced concrete Grade 25 (1:1.5:3) in:				
A	Columns	СМ	57		
В	Beams	СМ	128		
с	Staircases	СМ	24		
D	Ramps	СМ	51		
Е	Concrete Gutter	СМ	76		
F	200mm thick Lift Shaft Walls	SM	87		
G	200mm thick suspended slabs	SM	1,911		
н	150mm thick suspended landing	SM	20		
J	<u>Lintels</u> Precast Lintel size 200mm by 225 mm high , reinforced with 12mm diameter deformed bar top and bottom	LM	153		
	<u>Mild Steel Reinforcement</u> <u>Steel reinforcement deformed bar</u> including cutting to length, <u>bending and fixing including all necessary tying wires</u> , hooks and <u>spacing blocks to KS 573:2014</u>				
к	25mm Diameter bars	КG	8,857		
L	20mm Ditto	КG	16,238		
м	16mm ditto	КG	10,333		
Ν	12mm Ditto	КG	18,453		
Ρ	10mm Ditto	КG	11,810		
Q	8mm Ditto	КG	8,119		
R	Sawn Cypress Timber formwork to: Vertical sides of Lift Shaft Walls	SM	174		
S	Vertical sides of Columns	SM	540		
т	Sides and soffits of Beams	SM	1,028		
υ	Horizontal Soffits of Suspended slab	SM	1,911		
ν	Ditto, landings	SM	20		
W	Sloping soffits and sides of ramp	SM	150		
х	Ditto; staircases inclined at 27 degrees	SM	57		
	Total Carried to Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
A	Sides of sloping staircase string	SM	48		
В	Edges of suspended slab girth exceeding 225mm but not exceeding 300mm	LM	535		
С	Edges of risers girth exceeding 150mm but not exceeding 225mm	LM	114		
D	Edges of Landing girth exceeding 150mm but not exceeding 225mm	LM	12		
E	<u>Expansion Joint</u> 25mm thick "Styrofoam" filler between walls, columns etc	SM	33		
F	20 x 10mm deep Hot applied sealant "Bitubond"	LM	21		
G	25mm thick jumbolene sealant cord	LM	21		
	Total Carried to Collection			KShs.	
	<u>R.C Frame Works Collection Page</u>				
	Brought forward from page BW/4				
	Brought forward from above				
	Total Element No.2 - R.C Frame Works Carried to Office Block Summary			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Element No.3 - Walling & Partitioning				
A	<u>Damp Proofing</u> 200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	LM	390		
	Machine Cut Stones with a crushing strength of 7.5 N/mm ² ; walling bedded and jointed in cement and sand (1:4) mortar, reinforcement with and including 25mm wide x 20 gauge hoop iron at every alternate course as described in:				
В	<u>External walling:</u> 200mm Thick walling	SM	1,890		
С	<u>Internal walling:</u> 200mm Thick walling	SM	1,620		
D	Aluminum and MDF/Gypsum Drywall Partitions Aluminium and MDF/Gypsum composite framework comprising of heavy duty; grey powder coated ; comprising 100x50x3mm top rail thick sections with one channel, 100x50mm top rail with one, 100x50mm middle horizontal rail with two channels, 100x50mm bottom rail with one channel, 100x50mm middle horizontal rail with two channels,100x50mm vertical rail with two channels, 25x25mm anodized aluminium glazing beading,20mm black rubber glazing strips.	SM	162		
E	Frameless Glass Partition 12mm Thick fixed, straight frameless laminated glass panel partition with acoustic features : butt-glazed dry joint: equipped with swinging doors where indicated on plan including all ironmongery, and Clippings and Fixing Accessories to Interior designer detail: with filming as Llumar SRC from window plus (K) Ltd to approved pattern to glazing	SM	71		
F	<u>Timber Slats Partition</u> 2900 x 150 x 50mm Well seasoned pine screwed/bolted onto 40x40mm RHS Steel sections to Architect's/Interior Designer's approval.	SM	15		
G	Precast Louvred Vent Blocks 150mm Thick hexagonal precast concrete grille wall fixed onto masonry walls and concrete columns/slab/beams with cement sand mortar (1:3)	SM	68		
	Total Element No.3 - Walling & Partitioning				
	Carried to Office Block Summary			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Element No.4 - Roofing Works				
	Pitched Roof (All Provisional)				
	Structural steel sections drilled, welded and bolted as necessary complete with plates, bolts, cleats etc with and including one coat zinc chromate primer, two undercoats and one coat oil paint full gloss; including all necessary cutting; to Structural Engineer's satisfaction and approval				
	<u>The following in 11No. Trusses (T1-T1B) with and including bolted</u> <u>connections including hoisting and fixing in position at a height not</u> <u>exceeding 17.0 metres above ground floor level</u>				
A	Rectangular Hollow Section members, size 75 x 50 x 4mm (9.36 Kg/Im) - External Members (ceiling joist, kingpost & main rafter)	LM	264		
В	Ditto, size 50 x 50 x 4mm (5.78 Kg/lm) - Internal Members (struts & ties)	LM	184		
	<u>Ditto above in 13No. Trusses (T2-T2D)</u>				
С	Rectangular Hollow Sections members, size 75 x 50 x 4mm (9.36 Kg/lm) - External Members (ceiling joist, kingpost & main rafter)	LM	250		
D	Ditto, size 50 x 50 x 4mm (5.78 Kg/lm) - Internal Members (strut&ties)	LM	174		
	<u>Ditto above in 2No. Trusses (T3)</u>				
E	Rectangular Hollow Section members, size 75 x 50 x 4mm (9.36 Kg/Im - External Members (ceiling joist, kingpost & main rafter)	LM	67		
F	Ditto size 50 x 50 x 4mm (5.78 Kg/lm) - Internal Members (strut & ties)	LM	41		
	<u>Common structural members</u>				
G	250 x 200 x 8mm Thick Steel Chequered Plate	NO	100		
н	300mm x 200 x 6mm Thick steel plate	NO	100		
J	Zed Purlins as "Brollo" or equal and approved, size - 127 x 50.8 x 2mm (4.05 Kg/lm)	LM	401		
к	16mm Diameter CFL Anti - sagrods in purlins	LM	229		
L	Making holes in purlins for anti- sagrods	NO	306		
М	50 x 50 x 3mm SHS angle bracings (4.43 Kg/lm)	LM	115		
	Total Carried to Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Roofing Cont'd				
A	Rectangular Hollow Sections members, size 75 x 50 x 4mm (9.36 Kg/lm) - Valley rafter	LM	34		
В	Ditto, size 75 x 50 x 4mm, (9.36 Kg/lm) - Hipped rafter	LM	31		
с	75 x 50 x 4mm Thick plate for blocking ends - external members (ceiling joists, kingposts, rafters, valley rafters& hipped rafters)	NO	284		
D	50 x 50 x 3mm Thick plate for blocking ends - external members (struts, ties & bracings)	NO	1028		
	Truss connection accessories				
Е	250 x 200 x 8 mm mild steeel plate	NO	135		
F	6mm thick steel gusset plate	NO	70		
G	16mm diameter, 300mm long hold down bolts	NO	200		
н	Ditto; 20mm diameter	NO	140		
J	Making holes 16mm & 20mm diameter holes in plates	NO	340		
	Purlin connection accessories				
к	16mm diameter grade 4.6 bolts	NO	164		
L	Making holes for 16mm diameter bolts in purlin	NO	164		
м	75 x 50 x 4mm thickplate for blocking ends - external members (ceiling joist, kingposts, rafters, valley rafters& hipped rafters)	NO	284		
N	50 x 50 x 3mm thickplate for blocking ends - external members (struts&ties and bracing)	NO	1028		
	Roof Covering				
Р	<u>Insulation underlay and flashings</u> Supply and fix 5mm thick Jumbolene® Heavy Duty Roof Insulation sheeting underlay with 100mm overlaps to steel purlins	SM	534		
Q	Ditto to ridge cap	LM	106		
R	Ditto to valleys; 900mm girth twice bent to profile	LM	34		
	Total Carried to Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Roofing Cont'd				
	Gauge 28 Versatile roofing sheets or equal and approed sheets:				
	prepainted;-				
A	Roof covering at a pitch of 26 degrees from the horizontal; 150mm laps on ends and sides; fixed to angle section purlins with and including hook bolts and neoprene washers and nuts; include all the necessary fixing accessories	SM	534		
В	Hip/ridge capping 450mm wide	LM	106		
с	Valley piece; twice bent to profile of valley; 570mm girth (average) to match	LM	34		
	Rainwater Disposal				
D	<u>Gauge 26 galvanised steel in;</u> Cut 100mm diameter holes for downpipes	NO	10		
E	150 x 150mm Pressed steel box rainwater downpipe fixed with and including mild steel brackets at 900mm centres, plugged and screwed to wall	LM	110		
F	Ditto, 800mm Long shoe	NO	10		
G	Ditto, swan neck	NO	10		
н	100mm diameter fullbora Outlet with Grating	NO	10		
	<u>Prepare, prime and apply one undercoats and two gloss finishing</u> <u>coat enamel paint on the following metal surfaces</u>				
J	General surfaces of downpipes over 300mm girth	LM	110		
к	Ditto, 500mm Long shoe	NO	10		
L	Ditto, 800mm swan neck	NO	10		
	Total Carried to Collection				
	Roofing Works Collection Page				
	Brought from page BW/8				
	Brought from page BW/9				
	Brought from above				
	Total Element No.4 - Roofing Works Carried to Office Block Summary			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	<u>Element No.5 - Doors</u>				
	(Contractor is advised to check the architects's door schedule for purposes of pricing, fabrication and fixing)				
	Frames Supply and fix hardwood Frames with and including supply of low expansion polyurethane foam ; in Wrot mahogany or equivalent hardwood and approved (stained to match the colour of veneer);				
A	200mm x 50mm Frame with two labours	LM	288		
В	Ditto; door transome ditto	LM	39		
с	75 x 25 mm architrave with two labours	LM	216		
D	25mm diameter quadrant beading	LM	216		
	Solid Panelled Doors 50mm Thick mahogany pannelled double door, comprising 150 x 50mm top, middle and bottom rails infilled with 50mm thick solid moulded timber panels in 6 No. per leave; 300 mm high fanlight infilled with 6 mm thick clear sheet glass (m/s) with moulded beading around panels; edges bevelled and grooved into frames; all framed, clamped and grooved together as per Architects Doors Schedule				
E	Double Leafed Door (D03); size 1500mm x 2700mm high	NO	3		
F	Single Leafed Door (D04); size 900mm x 2700mm high	NO	21		
G	Flush Doors 45mm Thick semi-solid core flush door (D-07) size 1000 x 2700mm high faced both sides with wrot mahogany veneer with hardwood lipping to edges; 300 mm high fanlight infilled with 6 mm thick clear sheet glass (m/s)	NO	3		
н	Ditto size 900 x 2700mm high (D-08)	NO	16		
J	Ditto size 800 x 2100mm high (D-09)	NO	9		
	Mild Steel Louvred Doors				
	Purpose made Mild Steel Louvred Door: comprising of 100 x 50 x 3mm top, bottom and vertical framings/rails; 1.5mm thick mild steel louvre plate; one coat red oxide primer; as per Architect's drawing and details;				
к	Ditto duct doors (D-10); size 600 x 2400mm high overall but single leaf	NO	30		
L	Ditto size 900 x 2400mm high overall	NO	12		
	Total Carried to Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Aluminium Framed Doors				
	Supply and fix aluminium framed doors with approved powder				
	coated aluminium in approved colour framing in sections of size				
	175mm x 75mm fixed to wall/beam/column around openings,				
	including glazing with 12mm thick clear laminate glass on the upper				
	part and MDF on the lower part; secured to the framing using				
	approved glazing strips and glazing beading including waterproofing				
	all joints using approved silicon sealing compounds with all the				
	necesarry ironmongery and fittings; all to Architect's door schedules'				
	details and approval.				
A	Overall size 900 x 2700mm	NO	19		
	Frameless Glass Doors				
	12mm thick toughened frameless glass manual sliding/ openable				
	double door; overall size 1800 x 2700 mm high in 2 No. active				
	leaves each of size 900 x 2400 mm high and 2 No. fixed light 900 x				
	300 mm high complete with and including soft closing hinges, locks,				
	catches, automatic door closer, oval satin door stopper, 500 mm				
	long stainless stell pull handles, stainless steel push/pull				
	plate, accessories, opening mechanism and any other necessary				
	ironmongery all as "ASSA ABLOY" or equal and approved to Engineer's details and approval				
В	Double Leaf door (D-01); Overall size 3000 x 2700mm high	NO	3		
	Fireproof Door				
	Supply and install fire-rated heavy-duty steel doors with a 60-minute				
	rating as "ASTURMADI" or other equal and				
	approved; with fireproof frames, vision panel and				
	hardware; frames and leaf made of 1.5mm thick G.I Steel				
	in filled with rockwool and gypsum powder and finished in				
	polyester powder coating including fixing all necessary				
	fireproof ironmongery; all in accordance to manufacturers				
	printed instructions and Engineers/Architect's approval				
С	Double Leaf Door (D-05); overall size 1500 x 2700mm high	NO	1		
	Roller Shutter				
	Supply and fix the following roller shutter door as per				
	'Bostwick' catalogue or other equal and approved				
	manufacturer(s) complete with gear, wheels, hand chain				
	guides roller spring and hood to suit:				
	Self coiling rolling shutter door comprising 75 mm laths				
D	complete with all necessary ironmongery; door to suit opening	NO	2		
	size 3000 x 2700 mm high overall; ref. D-01				
	<u>Glazing</u>				
_	Supply and fix 6mm thick clear sheet glass to fanlight and glass fixed				
Е	with glazing beads over 0.10 but not exceeding 0.50 square metres	SM	16		
				KShs.	
	Total Carried to Collection			N3113.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Doors Cont'd				
	Iron Mongery				
	Supply and fix the following ironmongery as per "Assa Abbloy" or				
	other equal and approved with matching screws:-				
	NOTE; Tenderer to refer to the drawing & schedule for iron				
	mongery - All iron mongery to be per Architect's Approval [Tenderer to Provide a Sample board]				
	To softwood, hardwood or the like fixing with screw:				
A	Three lever mortice lock complete with furniture	NO	43		
В	Two lever mortice lock complete with furniture	NO	16		
с	Indicator bolt ; indicator -"Vacant/Engaged" satin steel	NO	9		
D	Security bolts, stainless steel; duct doors	NO	42		
Е	100mm Brass butts hinges	PRS	78		
F	Door closers : heavy duty: "Union Cat No. 8834-	NO	59		
	SL" or equal and approved				
G	Coat & hat hook - Rubber tipped	NO	9		
	To concrete or blockwork; fixing with bolts; plugging				
н	Rubber door stop	NO	80		
	Painting and decorating Aluminium primer or other equal and approved wood primer before				
J	<u>fixing: -</u> Frames; over 100mm but not exceeding 200mm girth	LM	327		
К	Wood surfaces; not exceeding 100mm girth	LM	432		
L	Surfaces over 300mm girth	SM	184		
	Prepare and apply approved stain, sanding sealer and three coats of				
	<u>'Crown Paints Solo' or other equal and approved varnish to :</u>		207		
М	Frames; over 100mm but not exceeding 200mm girth	LM	327		
Ν	Wood surfaces; not exceeding 100mm girth	LM	432		
Р	Surfaces over 300mm girth	SM	184		
	Total Carried to Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Doors Collection Page				
	Brought forward from page BW/11				
	Brought forward from page BW/12				
	Brought forward from page BW/13				
					-
	Total Element No.5 - Doors Carried to Office Block Summary			KShs.	

ІТЕМ	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Element No.6 - Windows				
	General Notes:				
1	All Steel sections to be standard steel manufacturing sections only				
2 3	Colour to be decided later All accessories to be primed to match frame and samples of all to be				
4	approved in the first instance. All flush bolts to be minimum 200mm long, chrome plated of				
5	approved quality. All corner glazing to be butt jointed with silicon sealant				
6	All bathroom windows to be glazed in opaque laminated glass. Where possible, the BQ has shown these as washroom windows; but it will be the tenderer's responsibility to crosscheck with the Architect's drawings as to the accuracy of this.				
	Mild Steel windows [Refer to theArchitect's drawing & detail]				
	Supply, assemble and fix the following approved Standard windows casements complete with brass (hinges, stays, fasteners), permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar				
	(1:4) (Grille and Glazing excluded)tects details and approval				
A	Window (W01&W02); overall size 2100mm x 1800mm high	NO	36		
В	Ditto (W03&W04) 3000 x 1800mm high	NO	9		
С	Ditto (W05&W06) 2100 x 900mm high	NO	9		
D	Ditto (W07) 900 x 1800mm high	NO	18		
Е	Ditto (W08) 600 x 900mm high	NO	19		
F	Ditto (W10) 1800 x 8100mm high	NO	1		
G	Ditto (W11) 3000 x 6500mm high	NO	1		
Н	Ditto (W12) 3000 x 3800mm high	NO	1		
J	Ditto (W13) 3000 x 2700mm high	NO	1		
	Supply 100mm thick precast concrete vent blocks patterned to Architect's details				
К	As windows (W09); overall size 900 x 1800mm high	NO	6		
	Total Carried to Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
A	<u>Window cill</u> <u>Precast concrete class 20 (12mm, aggregate), including formwork,</u> <u>finishing fair face on all exposed surfaces, hoisting and placing in</u> <u>position, bedding and jointing in cement and sand (1:3) mortar</u> 276 x 75 mm Weathered and throated precast concrete window sill bedded with (1:4) cement sand mortar on masonry blockwork	LM	179		
	In wrot Mahogany				
В	150 x 25 mm Window board; bullnosed edge, plugged, screwed and pelleted $% \left(\frac{1}{2} \right) = 0$	LM	179		
С	20 x 20 mm Quadrant beading	LM	179		
D	<u>Curtain rods/rails</u> Curtain holder comprising of 2No. (25mm & 20mm diameter) alluminium chrome plated rods, complete with metal runnings, decorative end cap fittings to approval	LM	179		
E	Window Buglar Proofing Grille Mild steel grille framed with 40 x 25 x 2 mm thick R.H.S. at 150 centers sections including assembly and fixing to opening cutting and pinning lugs to concrete or blockwork and bedding frame in cement and sand mortar (1:4)	SM	128		
	Painting and decoration to wood:				
	Prepare and apply 3 coats of weather guard paint to :				
F	Window cill girth exceeding 200mm but not exceeding 300mm	LM	179		
	Prepare and apply one undercoat aluminium primer before fixing to				
G	Timber surfaces; 100-200mm girth	LM	179		
н	Timber surfaces not exceeding 100mm girth	LM	179		
	Prepare and apply 3 coats of approved clear polyurethene varnish to				
J	Timber surfaces; 100-200mm girth	LM	179		
к	Timber surfaces not exceeding 100mm girth	LM	179		
	<u>Painting and decoration to metal surfaces;</u> <u>Prepare and apply 3 coats of gloss oil to windows</u> Internally	SM	256		
L					
М	Ditto externally	SM	256		
	Total Carried to Collection			KShs.	

ІТЕМ	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Glazing				
A	4mm thick clear sheet glass and glazing with putty in panes not exceeding 0.10 - 0.50 square metre	SM	216		
В	Ditto but obscured glass	SM	39		
	Roller curtain blinds				
с	Zebra roller blinds fabric composed of polyester fabric and netting; blinds to be alternating between net and fabric at a spacing of 80mm, including aluminium head, top and bottom rails; blinds to have 360 degrees rotating control unit with top attachment; all to architect's/Interior designer's approval	SM	216		
	Carried to Windows Collection			KShs.	
	Windows Collection Page				
	Brought forward from page BW/15				
	Brought forward from page BW/16				
	Brought forward from page above				
	Total Element No.6 - Windows Carried to Office Block Summary			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	<u>Element No.7 - Finishes</u>				
	<u>External Finishes</u>				
	<u>Wall finishes</u> <u>Gauged cement/sand (1:4) render;wood float finish as described:</u>				
A	16 mm thick render to external walls and concrete surfaces	SM	1125		
	Prepare surfaces and apply textured wall finish as "RUFF N' TUFF" from Crown-Berger (K) Itd or other equal and approved on plastered masonry or concrete surfaces to:				
В	Wall and concrete surfaces	SM	1125		
	Prepare and apply one universal undercoat and three coats of Permaplast exterior quality paint from Crown Paints or other equal approved sources to:-				
с	General surfaces of precast concrete vent block;internally and externally	SM	126		
D	<u>Mazeras Wall cladding</u> Machine cut mazeras	SM	222		
Е	Extra Over 55 mm thick natural stone walling for: Zero joint	SM	180		
F	<u>Keying and Pointing</u> Horizontal keying and pointing in cement and sand (1:4) mortar to natural stone wall external surfaces	SM	59		
G	<u>Polished terrazzo finish</u> 15mm Thick polished terrazzo consisting of cement and sand (1:4) screed (m.s)or backing finished with a layer of white cement with approved colour additive, sand and approved marble/granite chippings (1:4:2); trowelled to a smooth and even finish and machine polished and waxed to approval including dividing strips	SM	24		
н	Ditto skirting;100mm high x 10mm thick	LM	16		
	Floor Finishes				
	Roof Slab and Concrete Gutter 38 mm cement and sand (1:4) backing screed steel trowelled smooth to receive APP membrane (m.s) and precast concrete tiles (m.s) to :-				
J	Flat roof; laid to falls and crossfalls	SM	262		
к	Ditto, to concrete gutter	SM	270		
L	Ditto to receive precast concrete tiles	SM	262		
м	Skirting 100mm high dressed over angle fillet	LM	91		
	Total Carried to collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	<u>Smm Thick modified APP membrane as (Sirrah P GR 5Kg/SM) or</u>				
	equivalent with mineral finish: laid strictly in accordance with				
	manufacturers printed instructions: on screed (measured separately)				
A	Flat roof; laid to falls and crossfalls	SM	262		
В	Ditto, to concrete gutter	SM	270		
С	Skirting 100mm high dressed over angle fillet	LM	91		
	200 x 200 x 20 mm Thick coloured precast concrete interlocking tiles				
D	Flat roof; laid to falls and crossfalls	SM	262		
Е	Skirting 600mm high dressed over angle fillet	LM	91		
F	<u>Copping</u> 300 x 75 mm thick PCC coping twice throated and weathered laid in Cement/Sand mix (1:3) mortar over parapet walling	LM	210		
	Internal Finishes				
	Floor Finishes				
	Cement and sand (1:3) screeds, backings, beds etc				
G	30mm Thick bed finished to receive ceramic floor tiles (m.s)	SM	859		
н	Ditto to receive terrazo floor finish (m.s)	SM	235		
	Ceramic Tiles Non-slip Ceramic floor tiles as 'Saj Ceramics' or other equal and approved, jointed and pointed with matching cement sand (1:4) mortar (m.s), and matching waterproof grouting (m.s): all to the Project Manager's approval in;				
J	Floors, size 600 x 600 x 10mm Thick	SM	934		
к	Ditto, size 600 x 300 x 8mm	SM	95		
L	Ditto, size 250 x 250 x 8mm	SM	31		
м	Ditto. but to 100mm high skirting	LM	335		
	<u>Terrazzo Floor Finish</u> 25 mm Thick terrazzo cast insitu paving laid on cement sand				
	screeded surface (m.s), including plastic dividing strips; all to match the existing and to the approval of the Project Manager to:				
Ν	Floors	SM	235		
Ρ	Ditto. but to 100mm high skirting	LM	111		
	Total Carried to collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Finishes Cont'd				
	Stone Slates				
	Natural stone slates, sized 600mm x 400mm x 10-15mm thick,				
	sourced as first-grade slate with a natural cleft finish, grey in color; fixed over a 50mm thick cement-sand screed (1:3 mix) with				
	approved adhesive and polymer-modified additive, laid in approved pattern with 3-5mm grout joints, sealed with a penetrating stone				
	sealant, and installed in accordance with BS 5385-5 standards.				
A	Floors	SM	605		
В	100 x 25mm high skirting; moulded	LM	394		
	<u>Wall Finishes</u>				
	12mm (minimum) two coat lime plaster including skimming; Plaster;				
	<u>9mm thick first coat of cement and sand (1:6); 3mm second coat of cement and lime putty (1:10); steel trowelled smooth; complete with</u>				
	wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to:-				
С	Walls, beams and columns; internal	SM	3,510		
D	Prepare and apply 3 coats of silk vinly paint: Internal surfaces	SM	3,510		
	15mm thick wall render cement /sand (1:4) in:				
Е	Backing to receive wall tiles (m/s)	SM	558		
	Glazed wall tiles as 'Saj Ceramics' or other equal and approved,				
	jointed and pointed with matching cement sand (1:4) mortar (m.s), and matching waterproof grouting (m.s): all to the Project Manager's				
	approval:				
F	250 x 400mm glazed wall tiles	SM	558		
	<u>Ceiling Finishes</u> 12mm Thick (minimum) two coat lime plaster as described to:-				
G	Concrete soffits	SM	1,911		
	Suspended Acoustic Ceiling				
	Amstrong fissured "MINATONE" suspended ceiling comprising 600 \times				
	600 x 15mm thick panels, K4C4 Bev., "TATRA" patern laid on m/s DONN PRODUCTS INC. imported, concealed 'Z' suspension system				
Н	300mm below slab, both panels and suspension FIRE RATED and panels to have guaranteed "SOUND ABSORPTION CO-EFFICIENT; all as supplied an approved supplier	SM	501		
J	Ditto but 100 x 15mm Thick cornice	53	LM		
	Total Carried to collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Finishes Cont'd				
	Prepare touch up and cost universal underscost and three costs				
	Prepare, touch up one coat universal undercoat and three coats vinyl matt emulsion paint from "Crown Paints" or other equal approved to:-				
А	To concrete soffit surfaces	SM	1,911		
	<u>Staircase Finishes</u>				
В	32mm thick C/S mix (1:3) screed bed to 275mm wide threads to receive Terrazzo finish	LM	155		
с	275mm wide, 25mm thick Terrazzo layer fixed with an approved adhesive on prepared screed(m/s)	LM	155		
D	32mm thick C/S mix (1:3) screed bed to 150mm risers to receive Terrazzo finish	LM	155		
E	150 mm wide, 25mm thick Terrazzo layer fixed with an approved adhesive on prepared screed(m/s)	LM	155		
F	32mm thick C/S mix (1:3) screed bed to receive Terrazzo finish to Landings	SM	20		
G	25mm thick Terrazzo layer fixed with an approved adhesive on prepared screed(m/s) to landings	SM	20		
н	25 mm x 100mm high Terrazzo layer skirting to edges of landing	LM	10		
J	20mm x 100mm high Terrazzo layer skirting cut to profile of string	LM	55		
к	Extra over for 40 x 20mm wide non-slip insert	LM	155		
	<u>Plaster</u>				
L	12mm (minimum) two coat lime plaster comprising 9mm first coat of cement and sand (1:4) and 3mm second coat of cement and sand lime putty to soffits of staircase landing finished smooth with steel trowel	SM	20		
м	Ditto but to sloping soffits of staircase	SM	55		
Ν	Ditto but to staircase profile string extereme girth 320mm	LM	55		
	Painting				
	Prepare, touch up one coat universal undercoat and three coats vinyl matt emulsion paint from "Crown Paints" or other equal approved to:-				
Р	Soffits of staircase and landings internally	SM	75		
Q	Ditto but to staircase string exterme girth 180mm	LM	55		
	Total Carried to Collection			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Finishes cont'd				
	Stainless Steel Expansion Joint Cover Plate				
A	Supply and fix 300mm wide stainless steel expansion joint cover plate fixed to RC slab; as SJP-600SS or other equivalent as manufactured by Allway Expansion; all to approval of the Architect	LM	51		
	Total Carried to Collection			KShs.	
	Finishes Collection Page				
	Brought forward from page BW/18				
	Brought forward from page BW/19				
	Brought forward from page BW/20				
	Brought forward from page BW/21				
	Brought forward from Above				
	Total Element No.7 - Finishes Carried to Office Block Summary			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Element No.8 - Balustrading				
	Staircase and Ramp Railing				
	<u>900mm High Stainless Steel Balustrading comprising of 60mm</u> diameter x 3mm thick circular hollow section (CHS) top handrail,				
	60mm diameter x 3mm thick CHS balusters (standards) at 900mm centres, with one end grouted or screwed to concrete floor and the				
	other end welded to handrail ; 12.5 x 2mm CHS intermediate horizontal rails (4 No.) including approved plugging to balusters, joining brackets and accessories; in staircases all to Architect's				
	approval				
A	To Staircases	LM	168		
В	Ditto, ramp railing	LM	90		
С	Ditto, balcony railing	LM	120		
	Total Element No.8 - Balustrading Carried to Office Block Summary			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Element No.9 - Joinery & Fittings				
	Reception counters				
А	Composite aluminium partitions in 85x40x2mm heavy duty frames, 1500mm high comprising powder coated aluminium frames and beading to BS 10 B15 spaced vertically at 900mm centres; horizontally divided into two parts; 900mm high bottom panel infilled in 20mm thick laminated MDF board, 600mm high top panel glazed with & including 4mm thick clear sheet, all to Architect's details.	SM	27		
В	<u>Glazing</u> 4mm Thick clear sheet glass in panes 0.5 - 1.0 square meters; fixing with aluminium beadings	SM	8		
с	25mm thick plain blockboard counter base supported on MDF/aluminium partion.	SM	11		
D	20mm thick granite counter top on blockboard base (m/s).	SM	11		
	<u>Plinths</u> <u>The following in 100mm thick benching concrete class 15 with 12mm</u> <u>cement sand plaster to top and edges; including all necessary</u> formwork and BRC A142 mesh reinforcement weighing 2.22 kg per <u>square metre</u>				
E	100mm Thick benching	SM	45		
	Shelving <u>The following in blockboard shelf, sides dividers, back etc stained</u> <u>moulded oak veneered blockboard drawers and doors, complete</u> <u>with malpha hinges viro make</u> <u>cylinder lock, handles and eggshell</u> <u>paint</u>				
F	Low level drawers size 5600 x 600 x 900mm high; Complete with 20mm thick granite worktop	NO	5		
G	Full height Storage Cabinets size 6000 x 450 x 2400mm high	NO	3		
	Mirror				
н	6mm Thick polished plate glass silver backed mirror with bevelled edges, overall size 450 x 700mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	NO	6		
	Total Element No.9 - Joinery & Fittings Carried to Office Block Summary			KShs.	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	Element No.10 - Builder's Work In Connection to Services Inspect all architectural, mechanical, electrical and structural drawings as provided; allow for all builders work assocciated with all the specialist works				
A	Cut away fittings and pipework; form all holes, chases, etc and make good after the plumber, electrician and all other specialist works	ITEM			
	Total Element No.10 - BWIC to Services Carried to Office Block Summary			KShs.	

PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KShs.)
	OFFICE BLOCK SUMMARY				
	Element No.1 - Substructure Works		BW/4		
	Element No.2 - Reinforced Concrete Frame		BW/6		
	Element No.3 - Walling & Partitioning		BW/7		
	Element No.4 - Roofing Works		BW/10		
	Element No.5 - Doors		BW/12		
	Element No.6 - Windows		BW/15		
	Element No.7 - Finishes		BW/20		
	Element No.8 - Balustrading		BW/21		
	Element No.9 - Joinery & Fittings		BW/22		
	Element No.10 - Builder's Work In Connection to Services		BW/23		
	TOTAL BILL NO.2 - BUILDER'S WORKS CARRIED TO GRAND SUMMARY			KSHS.	

BILL NO.3 - ELECTRICAL WORKS

PROPOSED CONSTRUCTION OF MUTOMO LAND REGISTRY IN MUTOMO TOWN, KITUI COUNTY. WP ITEM NO.BD 1112, EN/KIT/2201 JOB NO.11075A

TENDER SPECIFICATIONS, BILL OF QUANTITIES FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF ELECTRICAL ENGINEERING SERVICES WORKS.

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SECTION IV: Bill of Quantities	E/53 - E/85

STAGE 1: PRELIM INARY EVAL UATION

S/No	MANDATORY REQUIREMENTS(MR)
MR1	Valid Copy of certificate of incorporation/ Registration.
	Valid Tax Compliance Certificate from Bidding Company and if Consortium, from each member of the consortium.
	Valid CR12 form showing the list of directors /shareholding or National Identity Card(s) for Sole Proprietorship / Partnership
	 Valid copy of NCA registration certificate, category NCA 5 and above in in the following works: - a) Electrical Installation Works
MR5	Valid annual NCA practicing license for works in MR4.
	Current registration License with Energy and Petroleum Regulatory Authority (EPRA) in class A in Electrical Installation Works
MR7	Valid Copy of current License with from Communication Authority of Kenya (CA)
MR8	Compliance Certificate from Communication Authority of Kenya (CA)
MR9	Dully filled, signed and stamped Statement of Compliance
MR10	Valid Copy of Current Single Business permit
MR11	Proof of authorization shall be furnished in the form of a written power of attorney which shall accompany the tender if the signatory is not a director of the company (provide name and attach proof of citizenship of the signatory to the Tender) and if Consortium, from each member of the consortium
MR12	Duly filled Technical Schedule of items to be supplied
	Certified copies of Audited accounts (Signed by Auditors and directors for the last three (3) years (2020, 2021 & 2022). (Certified by an advocate).

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 bidders will be required to submit relevant technical brochures/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 following table shall be used to determine the bidder's responsiveness to the technical specifications.

Compliance to Technical Specifications (El	<u>e c</u>
<u>tri c al Wor ks)</u>	

ITEM	DESCRIPTIO N (as described in particular specification)	Contractor Pro	Complian t/ Non- Complian		
		TYPE/MAKE	MODE L NO.	COUNTR Y OF ORIGIN	t
1.0	<i>Light Fittings</i> i. circular LED panel				
	ii. Decorative down Lights				
	iii. 600x600 Panel Lights iv. 1200mm				

	IP65		
	Moisture &		
	Dust Proof		
	Batten Light		
	v. Exit Signs vi.		
	Outdoor		
	polycarbonate		
	Globe post		
	lantern		
	vii. Landscape		
	Bollard lights		
2.0	Switches/ Sockets		
3.0	Power Cables		
4.0	UPS		

	DESCRIPTION (as described in	Contractor P	Proposed (Atta and catalogu		Complian t/ Non- Compliant
ITEM	(as described in particular specification)	TYPE/MAKE	MODEL NO.	COUNTRY OF ORIGIN	Compnant
5.0	Metallic Trunking				
6.0	Distribution Board				
7.0	Fire Alarm Panel				
8.0	Smoke Detector				
9.0	Circult Breaker (MCBs/ MCCBs)				
10.0	Breaking Glass				
11.0	Fire Alarm Cable				
12.0	Fire Alarm Panel				
13.0	Energizer				
14.0	UPS				
15.0	Patch panel				
16.0	Vertical Cable manager				
17.0	Data Switches				
18.0	CAT 6A Cables/ Patch cords				
19.0	Wireless Access Point				

ITEM	DESCRIPTION	TYPE/MAKE	MODEL	COUNTRY OF ORIGIN	Compliant/ Non- Compliant
20.0	SFP Fibre Module				
21.0	Faceplate				
22.0	Fibre Optic Cable				
23.0	Data Cabinets				
24.0	Factory Terminated Patch Cord				

STAG E 2: TECH NICAL EVALUATIO N

The tender document shall be examined based on clause 2.2 of the Instructions to Tenderers which states as follows:

In accordance with clause 2.2 of Instruction to Tenderers, the tenderers will be required to provide evidence for eligibility of the award of the tender by satisfying the employer of their eligibility under sub clause 2.1 of Instructions to Tenderers and their capability and adequacy of resources to effectively carry out the subject contract.

In order to comply with provisions of clause 2.2 of Instruction to Tenderers, the tenderers shall be required;

- a) *To fill the Standard Forms* provided in the bid document for the purposes of providing the required information. The tenderers may also attach the required information if they so desire;
- b) On compliance with Technical Specifications, bidders shall supply equipments /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 brochure/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) Any other necessary requirements so as to comply with the bid technical specifications.

The bid will then be analyzed, using the information in the technical brochures, to determine compliance with <u>keytechnical specifications</u> for the works/items as indicated in the tender document. Bidders not complying with **any** of the <u>keyTechnicalSchedulespecifications</u> shall be awarded <u>0 mar ks</u> while those meeting all the key technical specifications shall be awarded <u>40 mar ks</u> (evaluation committee may add more key requirements from the bid technical specifications.

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

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

PARAM ETER

MAXIMUM POINTS

(i)	Compliance with Technical Specifications40
(ii)	Tender Questionnaire
(iii)	Key personnel
(iv)	Contract Completed in the last Five (5) years
(v)	Schedules of on-going projects4
(vi)	Schedules of contractors equipment12
(vii)	Audited Financial Report for the last 3 years
(viii)	Evidence of Financial Resources
(ix)	Name, Address and Telephone of Banks (Contractor to provide)3
(x)	Litigation History

TOTAL

<u>100</u>

The pass-mark under the Technical Evaluation is 70 percent.

The detailed scoring plan shall be as shown in table blow. Assessment for Eligibility

Item	Description	Points Scored	Max. Point
1	 Compliance with Technical Specifications Compliant40 Non-compliant0 		40
	(Note:See Table above page E1)		

Director of the firm			
• Holder of degree in Electrical and electronics Engineering field		7	
• Holder of diploma in Electrical and electronics Engineering field3		1	
• Holder of certificate in Electrical and electronics Engineering field2			
• Holder of trade test certificate in Electrical and electronics Engineering field1			
• No relevant certificate0			
At least 1No. degree/diploma holder of key personnel in relevant field			
• With over 10 years Electrical and electronics experience		4	15
• With over 5 years Electrical and electronics experience			
• With under 5 years Electrical and electronics experience			
At least 1No certificate holder of key personnel in relevant field			
• With over 10 years Electrical and electronics experience		_	
• With over 5 years Electrical and electronics experience		2	
• With under 5 years Electrical and electronics experience			
Description	Points Scored	Max.	Point
Compliance with Technical Specifications			
• Compliant40		4	0
• Non-compliant0			
(Note:See Table above page E1)			
	 Holder of degree in Electrical and electronics Engineering field7 Holder of diploma in Electrical and electronics Engineering field7 Holder of certificate in Electrical and electronics Engineering field2 Holder of trade test certificate in Electrical and electronics Engineering field2 Holder of trade test certificate in Electrical and electronics Engineering field2 Holder of trade test certificate in Electrical and electronics Engineering field2 Holder of trade test certificate2 No relevant certificate	 Holder of degree in Electrical and electronics Engineering field	 Holder of degree in Electrical and electronics Engineering field7 Holder of diploma in Electrical and electronics Engineering field3 Holder of certificate in Electrical and electronics Engineering field2 Holder of trade test certificate in Electrical and electronics Engineering field2 No relevant certificate2 At least 1No. degree/diploma holder of key personnel in relevant field With over 10 years Electrical and electronics experience

At least 2No artisan (trade test certificate in relevant field)		
 Artisan with over 10 years Electrical and electronics experience- 2 Artisan with under 10 years relevant experience1 Non skilled worker with over 10 years relevant experience0 	2	

Item	Description	Points Scored	Max.	Point
5	On-going projects – <u>P rovi de Evi de nc e</u>			
	• No Project of similar nature, complexity and magnitude -			
	 4 Three and below Projects of similar, nature complexity and magnitude3 Four and above Projects of similar nature, complexity and magnitude			4
6	2 Schedule of contractors equipment and transport (proof or			
Ŭ	evidence of ownership/Lease)			
	 a) Relevant Transport (at least 3No. each 2mks) Means of transport (Vehicle)		6	12
	b) Relevant Equipment (at least 6No. each 1mks)			
	 Has relevant equipment for work being tendered6 No relevant equipment for work being tendered0 		6	
7	Financial report			
	a) Audited financial report (last three (3) years)			
	Average Annual Turn-over equal to or greater than the cost of the project6			6
	• Average Annual Turn-over above 50% but below 100% of the cost of the project3			
	Average Annual Turn-over below 50% of the cost of the project1			

	 b) Evidence of Financial Resources (cash in hand, lines of credit, over draft facility etc.) Has financial resources to finance the projected monthly cash flow* for three months		9
Item	Description	Points Scored	Max. Point
8	Name, Address and Telephone of Banks (Contractor to provide) • Information Provided		3
9	Litigation History • Duly Filled		2
	TOTAL		100

Any bidder who scores 70% and above shall be considered for further evaluation. *Monthly

Cash Flow =Tender Sum/Contract Period

State me nt of Compl i anc e

- 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, who can be perceived as an inducement to win this tender.

Signed:for and on behalf of the Tenderer

Date:

Official Rubber Stamp:

SECTIONII-SPECIFICATIONS

Notes for preparing Specifications

- 1. Specifications must be drafted to present a clear and precise statement of the required standards of materials, and workmanship for tenderers to respond realistically and competitively to the requirements of the Procuring Entity and ensure responsiveness of tenders. The Specifications should require that all materials, plant, and other supplies to be permanently incorporated in the Works be new, unused, of the most recent or current models, and incorporating all recent improvements in design and materials unless provided otherwise in the Contract. Where the Contractor is responsible for the design of any part of the permanent Works, the extent of his obligations must be stated.
- 2. Specifications from previous similar projects are useful and may not be necessary to re-write specifications for every Works Contract.
- 3. There are considerable advantages in standardizing **General Specifications** for repetitive Works in recognized public sectors, such as high ways, urban housing, irrigation and water supply. The General Specifications should cover all classes of workmanship, materials and equipment commonly involved in constructions, although not necessarily to be used in a particular works contract. Deletions or addenda should then adapt the General Specifications to the particular Works.
- 4. Care must be taken in drafting Specifications to ensure they are not restrictive. In the Specifications of standards for materials, plant and workmanship, existing Kenya Standards should be used as much as possible, otherwise recognized international standards may also be used.
- 5. The Procuring Entity should decide whether technical solutions to specified parts of the Works are to be permitted. Alternatives are appropriate in cases where obvious (and potentially less costly) alternatives are possible to the technical solutions indicated in tender documents for certain elements of the Works, taking into consideration the comparative specialized advantage of potential tenderers.
- 6. The Procuring Entity should provide a description of the selected parts of the Works with appropriate reference to Drawings, Specifications, Bills of Quantities, and Design or Performance criteria, stating that the alternative solutions shall be at least structurally and functionally equivalent to the basic design parameters and Specifications.
- 7. Such alternative solutions shall be accompanied by all information necessary for a complete evaluation by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, proposed construction methodology, and other relevant details. Technical alternatives permitted in this manner shall be considered by the Procuring Entity each on its own merits and independently of whether the tenderer has priced the item as described in the Procuring Entity's design included with the tender documents.

G ENERAL SP ECIF ICAT IO NS F O R E LECTRIC AL WO RK S

1.00 SITE LOCATION

The site of the proposed works is at <u>MUTO MO TO WN – KITUI CO UNTY.</u>

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) General Electrical Installation Works

(b) Fire Alarm Installation

3.00 MATERIALS FOR THE WORKS

Materials shall be as specified in Section B 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 ELECTRICAL EQUIPMENT AND FITTINGS

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

5.00 MINIMUM TECHNICAL SPECIFICATION FOR ELECTRICAL FITTINGS

a) MINIMUM TECHNICAL SPECIFICATION FOR LED LIGHT FITTINGS

- Power factor ≥ 0.9
- Operating voltage range 130-300 V ac
- Operating frequency range 45-55 Hz
- Operating hours \geq 25,000 hrs
- Colour Temperature ≥ 2700 K THD<15%

Attach technical brochures to access compliance with specification.

b) 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.

c) 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 trip free 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.

d) 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.

e) 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-contractors expense.

It will be the Sub-contractors 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.

f) 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 to 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.

g) LABELS

Labels fitted to switches and fuse boards; -

- (i) Shall be Ivorine 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 switches
 - **b**) Special current rating
 - c) Item of equipment controlled

(iv) Shall indicate on MCB panels

d) Reference number

e) Type of board, i.e;, lighting, sockets, etc,.

- f) Size of cable supplying panel
- g) where to isolate feeder cable
- (v) Shall be generally not less than 75mm x 50mm.

h) 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. Attention is drawn to the need for the earthing metal parts of lighting fittings and for bonding ball joint suspension in lighting fittings.

i) 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 K		Ks 0	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 1.5mm² 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.

j) 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.

k) 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 galvanized 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.

I) PVC INSULATED CABLES

Shall be of non-braided type as CMA reference $6491 \ge 600/1000/1000$ 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.

m) 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.

n) 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).

o) 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.

p) 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>	INSULATIONCOLOUR	<u>CABLE</u> <u>END</u>
1) Main and Sub-Ma	ain	<u>MARK</u> ER
a) Phase	Red	Red
b) Neutral	Black	Black
2) Sub-Circuits Sing	gle Phase	
a) Phase	Red	Red
b) Neutral	Black	Black

q) 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) 1.5mm² for all lighting circuits indicated on the drawing.

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

- (i) 2.5mm² for one, two or three 5Amp sockets wired in parallel.
- (ii) 2.5mm² for one 15Amp socket.
- (iii) 2.5mm² 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.

r) 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.

s) 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.

t) LIGHTING SWITCHES

These shall be mounted flush with the walls, shall be contained in steel or alloy boxes 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

u) 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 and as manufactured by "M.K. Electrical Co. Ltd.", or other approved equal to KS 04 - 246: 1987

v) 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

w) COOKER OUTLETS

These shall be flush mounted with 13-A switched socket outlet and neon indicator Lamps. The

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

x) 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.

y) LAMPHOLDERS

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.

z) 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

aa) 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.

bb) 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.

cc) 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. 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.

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.

dd) 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.

- (b) 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 Subcontractor 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.

AP P ENDIX TO ELECTR ICAL 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 Company Limited, and Communications Authority of Kenya (CA).

ARTIC ULAR SPECIFICATIONS

1.0 SITE LOCATION

The site of the proposed works is at <u>MUTOMO TOWN – KITUL COUNTY.</u>

2.0 SCOPE OF WORKS

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

a) General Electrical Installation Works b) Fire Alarm Installation

3.0 MATERIALS FOR THE WORKS

Materials shall be as specified in Section F 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 Electrical Engineer.

4.0 BROCHURES FOR 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.

PART

ELECTRIC AL IN STALLATIO N WO

	<u>KK S</u>	
	, PANELS & BULBS LIGHT FITTING L SPECIFICATIONS	
IEC Complian	nt	
Item	Minimum Specifications	Proposed solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	

Operating	 O Voltage range: 130-300 V ac O Frequency range: 50/60Hz O Power factor ≥ 0.9 lagging O Total Harmonic Distortion (THD)<15% O Ambient temperature range -10 to +35 °Operating
	• Colour Consistency \leq 5SDCM
Performance	 O System efficacy ≥= 100lm/W O Lamp colour temperature: 4000K - 6500K O Colour Rendering Index >=80 O Median useful life >= 50,000 hours
Standards Compliance	CB/EMC/CE
General	 Driver/power unit/transformer - PSU-E Optical cover/lens type - Polystyrene bowl/cover prismatic Protection class IEC - Safety class II (II)

PART B:

FIRE ALARM PANEL INSTALLATION WORKS

TECHNICAL SPECIFICATIONS		
Item	Minimum Specifications Proposed solution	
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Feature	O 2 loop version	
	• Up to 200 addresses per loop	
	• Full network capability up to 126 panels	
	• Event History Buffer (9,999 events) with Date/Time stamp	
	• Soft addressing	
	• Multi-language selection capability	
	• Integral battery and power supply	
	• Flexible cause and effect programming	
	• Simple to operate end user touch-screen interface	
	• Flexible distributed network capability	
	• Full range of compatible accessories	

PART C:

STRUCTURED CABLING

1. NETWORK CABINETS

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product type	Ventilated rack with fans where applicable	
Construction	✤ Detachable composite structure✤ 800x1000mm	
	✤ Material: SPCC quality cold rolled steel	
	Thickness: Square hole strips2.0mm, others 1.2mm	
Power	 Pre-wired 240V AC conditioned grounded power circuit ♥ Supplied with Earth Bond Kit and Cage nuts 	

2. CABLES – HORIZONTAL CABLING AND PATCH CORD

Item	Minimum specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Construction	✤ CAT 6A STP	
	✤ Solid (non-tinned) copper	
	Centre Isolation Member	
Jacket	8.5mm with Sequential meter markings	

Industry	✤ ISO/IEC 11801 Ed. 2.2 (Class EA)
Compliance	✤ ISO/IEC 61156-5 (Category 6A)
	✤ TIA-568-C.2 (Category 6A)
	 ✤ LSOH: ISO/IEC 60332, IEC 60754, IEC 61034
	✤ EN50399 Class Eca

Warranty	End-to-End Manufacturer's Warranty on Cabling System (<i>Attach</i> <i>Manufacturer's Warranty Statement</i>) Minimum 15 Years Warranty
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3. FIBRE

i) BACKBONE MULTIMODE FIBRE OPTIC CABLE

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Construction	Steel Tape armoured with Glass Yarn	
Armour	Corrugated Steel Tape Armour	
Cable characteristics	 Support for 10GBASE-T Low Density Polyethylene Sheath Gel Filled Loose Buffer Tube Level 1 Rodent Protection Crash(N) at least 2500 Torsion (Turns/M) not more than 5 Multimode 	
Warranty	End-to-End Manufacturer's Warranty on Cabling System (<i>Attach</i> <i>Manufacturer's Warranty Statement</i>) Minimum 15 Years	

ii) BACKBONE DISTRIBUTION FIBRE PATCH CORDS

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	

Features	Easy Identification- Connectors color coded per ANSI/TIA/EIA568-B.3	
	• Dust Caps- Dust caps included to protect polished ferrule from dirt and damage	
	• Polarity Connection- LC Duplexing clip for polarity correction	
Industry Compliance	 IEEE802.3ae standard TIA/EIA and ISO/IEC requirements for aging, exposure to humidity, temperature extremes, impact, vibration, coupling strength, and cable resistance to stress and strain. EMC/EMI Specifications 	
Warranty	End-to-End Manufacturer's Warranty on Cabling System (<i>Attach Manufacturer's</i> <i>Warranty Statement</i>) Minimum 10 Years	

4. ACTIVE DEVICES

(i)ACTIVE CONTROL EQUIPMENTS AT THE NETWORK CORE (CORE SWITCH)

The active control equipment at the core should have the following features:

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product type	Core Switch	

	Product Features	
	Up to 1 TBps of local stackable switching bandwidth.	
	Flexible downlink options with 1G Copper and Fiber as well as the densest Multigigabit links	
	Mix of Copper (1G up to 10G) and Fiber (1G up to 25G) supported in a single stack	
	Flexible and dense uplink offerings with IG, Multigigabit, 10G, 25G, 40G and	

Item	Minimum Specifications	Proposed Solution
	100G in the form of fixed or modular uplinks	
	 Based on UADP 2.5sec ASIC which adds line rate support for Crypto, including 100G IPSec 	
	 PoE capabilities with up to 384 ports of PoE per stack, PoE+, and high-density IEEE 802.3bt 	
	 Intelligent Power Management, providing power stacking among members for power redundancy. 	
	 Line-rate, hardware-based Flexible NetFlow (FNF), delivering flow collection of up to 128,000 flows with select models 	
	IPv6 support in hardware, providing wire-rate forwarding for IPv6 networks	
	 Dual-stack support for IPv4/IPv6 and dynamic hardware forwarding table allocations, for ease of IPv4-to-IPv6 migration 	
	 Support for both static and dynamic NAT and Port Address Translation (PAT) 	
	 IEEE 802.1ba AV Bridging (AVB) built in to provide a better audio and video experience through improved time synchronization and QoS 	

Storage	 ✤ 86 CPU complex with 8-GB memory, and 16 GB of flash and external USB 3.0 SSD
	 pluggable storage slot (delivering up to 240GB of storage with an option SSD drive x86 CPU complex with 8-GB memory, and 16 GB of flash and external USB 3.0 SSD pluggable storage slot (delivering up to 240GB of storage with an option SSD drive
Warranty	Comprehensive Manufacturer's Warranty (<i>Attach Manufacturer's</i> <i>Warranty Statement</i>) Minimum 3 Years

(ii) ACTIVE CONTROL EQUIPMENTS AT THE LAN EDGE

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	•
Product type	Data floor Switch	
	Product Features	
	• Switching capacity of at least 56Gbps	
	• Stacking bandwidth of at least 80Gbps	
	• At least 16,000 MAC Addresses	

Active control equipment at the LAN Edge should have the following features:

	 at least 512 Total Switched Virtual Interfaces (SVIs) Full Power over Ethernet Plus (PoE+) capability Modular uplinks of 4x 1G fixed uplinks or more 48 Ethernet 10/100/1000 Full PoE+ ports, 4 -SFP transceiver-based Gigabit multimode Fiber ports 1 Management port
Mamage	• 1 console port
Memory	 At least 2GB DRAM At least 4GB flash
Warranty	Comprehensive Manufacturer's Warranty (<i>Attach Manufacturer's</i> <i>Warranty Statement</i>) Minimum 3 Years

(iii)ACTIVE CONTROL EQUIPMENTS AT THE LAN EDGE

Active control equipment at the LAN Edge should have the following features:

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product type	Data floor Switch	
	Product Features	
	• Switching capacity of at least 56Gbps	
	• Stacking bandwidth of at least 80Gbps	
	• at least 16,000 MAC Addresses	
	• At least 512 Total Switched Virtual Interfaces (SVIs)	
	• Full Power over Ethernet Plus (PoE+) capability	

	 Modular uplinks of 4x 1G fixed uplinks or more 24 Ethernet 10/100/1000 Full PoE+ ports, 4 - SFP transceiver-based Gigabit Multimode Fibre ports 1 Management port 1 console port
Memory	 at least 2GB DRAM at least 4GB flash
Warranty	Comprehensive Manufacturer's Warranty (<i>Attach Manufacturer's</i> <i>Warranty Statement</i>) Minimum 3 Years

(iv) WIRELESS ACCESS POINT The wireless access point shall have the following features:

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	
Product type	Wireless Access Point	

	Product Features
	 Access Points should be at least MIMO 4x4 Wave At least 2 frequency bands (2.4Ghz and 5Ghz) It should support PoE+ Wi-Fi standards 802.11 a/b/g/n/ac should be supported. Radios should support auto channel and power selection based on surrounding Wi-Fi conditions Access Points should have the ability to load balance users between APs in the same area. The proposed solution should support WPA/WPA2/TKIP/AES security The proposed solution should support Authentication methods that include 802.1x, Mac-based and Captive Portal The Access Points should support radius authentication of wireless users The Access Points should support hidden SSIDs The Access Points should have built-in Wi-Fi Protected Setup (WPS) and Wireless Distribution System (WDS) to provide protection against wireless DoS attacks.
Warranty	Comprehensive Manufacturer's Warranty (<i>Attach</i> <i>Manufacturer's Warranty Statement</i>) Minimum 3 Years

(v) SMART INTERACTIVE DISPLAY SCREEN

Item	Minimum Specifications	Proposed Solution
Brand	State the brand, model and attach Technical Brochure (Mandatory)	

Smart Display screen	
✤ Narrow bezel, more natural touch feeling, 2	
handles	
书 86' inch Size 1	
✤ Effective display area 1897.04(H)*1068(V)mm	
Contrast ratio: 1200:1	
✤ Aspect ratio: 16:9	
✤ Brightness: 350cd/m ²	
✤ Backlight: DLED	
\clubsuit Viewing angle: $178^{\circ}(V)/178^{\circ}(H)$	
✤ Refresh rate: 60 Hz	
✤ Resolution: 3840 (H) X 2160(V)	
\clubsuit Response time ≤ 8 ms	
✤ Glass: Fully heat-tempered anti-glare glass that	
resists smudges and fingerprint	
Built-in Android experience: CPU/GPU CA73*2+ CA53*2	
✤ CPU processor: Quad-Core	
\mathbf{P} RAM+ ROM : 2GB + 16GB respectively	
 Compatible video format : MKV, MPE4, AVI, FLV, WMV, ASF 	
✤ Front port : HDMI, Touch USB, 3NO.	
VGA IN, VGA AUDIO IN, EARPHONE,	
± · · · · · · · · · · · · · · · · · · ·	
✤ Interactive experience Touch technology:	
-	
✤ Touch screen sensor mode: Finger, writing pen	
or other non-transparent touch sensitive medium	
✤ Anti-Interference: 80000 Lux	
✤ Support system: Android/Win10	
P Remote control: Yes	
✤ Lifetime: More than 60000 hours	
Minimum Specifications	Proposed Solution
State the brand, model and attach Technical Brochure (Mandatory)	
	 ¹ Narrow bezel, more natural touch feeling, 2 handles ¹ 86' inch Size ¹ Effective display area 1897.04(H)*1068(V)mm ¹ Contrast ratio: 1200:1 ¹ Aspect ratio: 16:9 ¹ Brightness: 350cd/m¹ ¹ Backlight: DLED ¹ Viewing angle: 178°(V)/178°(H) ¹ Refresh rate: 60 Hz ¹ Resolution: 3840 (H) X 2160(V) ¹ Response time ≤ 8 ms ¹ Glass: Fully heat-tempered anti-glare glass that resists smudges and fingerprint ¹ Glass thickness : 4 mm ¹ Built-in Android experience: CPU/GPU CA73*2+ CA53*2 ² CPU processor: Quad-Core ¹ RAM+ ROM : 2GB + 16GB respectively ¹ Compatible video format : MKV, MPE4, AVI, FLV, WMV, ASF ¹ Front port : HDMI, Touch USB, 3NO. USB3.0 ¹ Back port: RJ45, USB, TOUCH USB, HDMI, VGA IN, VGA AUDIO IN, EARPHONE, RS232, SPDIF, YPbPr IN, AV IN, AV OUT, RF ¹ Speaker: 2×15 W (forward) ¹ Bluetooth: Built-in ¹ Wi-Fi: Built-in ² Minimum object size 2mm ³ Touch screen sensor mode: Finger, writing pen or other non-transparent touch sensitive medium ³ Anti-Interference: 80000 Lux ³ Support system: Android/Win10 ³ Remote control: Yes ⁴ Lifetime: More than 60000 hours

Warranty

(vi) RACKMOUNT UPS			
Item	Minimum Specifications Proposed solution		
Brand	State the brand, model and attach Technical Brochure (Mandatory)		
Features	Rack Mounted		
	Output		
	 ☆ Max Configurable Power (3.0KVA) ☆ Nominal Output Voltage: 240V ☆ Output Voltage Distortion: Less than 5% ☆ Output Frequency (sync to mains): 50 Hz ☆ Line Interactive ☆ Waveform Type: Sine wave ☆ Input ☆ 320 C13 (Battery Backup) ☆ Nominal Input Voltage: 240V ☆ Input Frequency: 50/60 Hz +/- 3 Hz (auto sensing) ☆ Input Connections: IEC-320 C20 ☆ Input voltage range for main operations 180 - 287 V ☆ Batteries & amp: Runtime ☆ Battery Type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte: leakproof ☆ Runtime > 5mins 		
	✤ Typical recharge time: 3 hour(s)		
	Replacement Battery: YES		
	✤ RBC Quantity: 1		
	Surge Protection and Filtering		
Item	Minimum Specifications Proposed solution		
Brand	State the brand, model and attach Technical Brochure (Mandatory)		

(vi) RACKMOUNT UPS

	✤ Surge energy rating: 300 Joules
	 Filtering: Full time multi-pole noise filtering: 0.3% IEEE surge let-through: zero clamping
Support	Locally Available Technical Support Services (Manufacturer's Letter of Authorization Mandatory)
Warranty	Manufacturer's Limited Lifetime Warranty Minimum 2 years- repair or replace

Manufacturer's Brochures MUST be provided for all the above Listed items.

SECTION II - 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 subcontract 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, Withholding tax and all other taxes applicable at the time of tender**).
- 6. Any bid returned with unfilled Schedule of Unit Rates shall be considered technically non- responsive, and the bidder shall automatically be disqualified.

(To be completed by the Tenderer)				
ITEM	DESCRIPTION	QTY/UNIT	RATE(KSHS)	
1.	125A MCCB	1No.		
2.	Industrial socket outlets, 5 pin: a) 32A b) 40A	1No. 1No.		
	c) 63 A d) 100 A	1No. 1No.		
3.	Flood lights: a) 50 Watts b) 100 Watts PVC/SWA/PVC Copper cable: a) 10.0mm sq. 2 core	1No. 1No. 1M		
	 b) 10.0 mm sq 4core c) 16.0 mm sq 2core d) 120.0 mm sq S Ccore e) 	1M 1M 1M		
5.	 Distribution Boards/Consumer unit. a) 12Way TPN Distribution Board b) 6 Way TPN Distribution Board c) 4 Way TPN Distribution Board d) 4-way consumer unit 	1No. 1No. 1No.		
6.	Industrial socket outlets, 5 pin:	1No.		
7.	64 CH NVR	1No.		

<u>SCH EDULE OF UNIT RATE S</u> (To be completed by the Tenderer)

ITEM	DESCRIPTION	QTY/UNIT	RATE(KSHS)
8.	 a) 6MP Bullet type CCTV Camera b) 8M Bul let type CCTV Camera 	1No.	
9.	Network Switches Port Switch Rack Mountable with PoE and as described in the particular specifications a) 8 Port Cisco as Cisco Catalyst	1No.	
9.	Cat 6A UTP 8-Pair indoor cable	1No.	
10.	Network Cabinets a) 42U Data Cabinet b) 19U Data Cabinet	1No.	
	 a) wireless gateway module completes with accessories & line b) (ii)) Wireless module complete with accessories & line 	1No.	
	c) Interactive screeen d) 200KVA Generator		
	e) Grid_tie Inverter		
	f) 600KW solar panel		
	g)		

SECTION III - TECHNICAL SCHEDULE OF ITEMS TO BE SUPPLIED

- 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.

TECHNICALSCHEDULEOFITEMSTOBESUPPLIED (To

be completed by the Tenderer)

ELECTRICAL INSTALLATION WORKS

	DESCRIPTIO	Contractor Pro	Complian t/ Non- Complian		
ITEM	N (as described in particular specification)	TYPE/MAKE	MODE L NO.	COUNTR Y OF ORIGIN	t
1.0	<i>Light Fittings</i> i. circular LED panel				
	ii Decorative 90mm downlight Lights				
	iii 600x600 Panel Lights				
	iv 1200mm IP65 Moisture & Dust Proof Batten Light				
	iv. Exit Signs v. Outdoor polycarbonate Globe post lantern				
	vi. Landscape Bollard lights viii. 200W floodlights				
2.0	Switches/ Sockets				
3.0	Power Cables				
4.0	UPS				
	DESCRIPTION	Contractor Pro	posed (Att and catalogu	tach Brochures 1e)	Complian t/ Non-

ITEM	(as described in particular specification)	TYPE/MAKE	MODEL NO.	COUNTRY OF ORIGIN	Compliant
5.0	Metallic Trunking				
6.0	Distribution Board				
7.0	Fire Alarm Panel				
8.0	Smoke Detector				
9.0	Circult Breaker (MCBs/ MCCBs)				
10.0	Breaking Glass				
11.0	Fire Alarm Cable				
12.0	Vertical cable Manager				
13.0	UPS				
14.0	Patch panel				
15.0	SFP Fibre Module				
16.0	Data Switches				
17.0	CAT 6A Cables/ Patch cords				

18.0	Wireless Access Point				
ITEM	DESCRIPTION	TYPE/MAKE	MODEL	COUNTRY OF ORIGIN	Compliant/ Non- Compliant
20.0	SC_SC Fibre Patch Cord				

21.0	Faceplate		
22.0	Fibre Optic Cable		
26.0	Data Cabinets		
27.0	Wireless presenter		
28.0	CAT 6 UTP 4 pair screened cable		
29.0	8 core Multi_mode fibre optic Cable		

BILLS OF QUANTITIES

A) PRICING OF PRELIMINARIES ITEMS.

Prices will be inserted against item of preliminaries in the sub-contractor's Bills of Quantities and specification. These Bills are designated as Bill No.1 in this Section. Where the sub-contractor fails to insert his price in any item he shall be deemed to have made adequate provision for this on various items in the Bills of Quantities. The preliminaries form part of this contract and together with other Bills of Quantities covers for the costs involved in complying with all the requirements for the proper execution of the whole of the works in the contract.

The Bills of Quantities are divided generally into three sections: -

a) Preliminaries – Bill 1

Sub-contractor's preliminaries are as per those described in section C – sub-contractor preliminaries and conditions of contract. The sub-contractor shall study the conditions and make provision to cover their cost in this Bill. The number of preliminary items to be priced by the Tenderer has been limited to tangible items such as site office, temporary works and others. However, the Tenderer is free to include and price any other items he deems necessary taking into consideration conditions he is likely to encounter on site.

b) Installation Items and Other Bills

The brief description of the items in these Bills of Quantities should in no way modify or supersede the detailed descriptions in the contract Drawings, conditions of contract and specifications.

The unit of measurements and observations are as per those described in clause 1.05 of the section C.

c) Summary

The summary contains tabulation of the separate parts of the Bills of Quantities carried forward with provisional sum, contingencies and any prime cost sums included. The sub-contractor shall insert his totals and enter his grand total tender sum in the space provided below the summary. This grand total tender sum shall be entered in the Form of Tender provided elsewhere in this document.

B) NOTES FOR 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 description 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 **Form** of **Tender**.
- 6. Tenderers must enclose, together with their submitted tenders, **detailed manufacturer's Brochures** detailing Technical Literature and specifications on the items they intend to offer.

This shall be used in the tender evaluation to determine the first line aesthetics and quality of fittings offered.

BILL No. 1: GROUND FLOOR

m	Description	Qty		TZ 1	Cost Kshs
			Unit	Kshs	
1.01	SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:- LIGHTING POINTS AND SWITCHES Lighting points wired in 3 x 1.5mm ² PVC/SC CU cables drawn in 20mmØ surface mounted HG/PVC conduits complete with all necessary accessories but excluding switches for:-				
	i) One way switchingii) Two way switching	78 26	No. No.		
	10A, moulded plastic ivory white switch plates as MK or approved equivalent as follows:-i) One gang one wayii) Two gang one wayiii) Two gang two wayiii) One gang two way	28 5 8 2	No. No. No. No.		
	10A, moulded ivory white architrave switch plates asMK Range or approved equivalent as follows:-i) One gang one way	3	No.		
	Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-				
]	i) 1200mm, 100 lm/W, single 16W, 6000K LED Batten Luminaire as Phillips or approved equivalent(Type F)	35	No.		
2	ii)1200mm, IP65 twin-1 LED fitting with 24W, 4100lm, 4000K, tough exterior, moist and dust proof and average lifetime of 50,000hrs as Philips Coreline LED or approved equivalent (Type I)	/	No.		
]	iii) Circular LED 24W, 4000K, 1920lm, IP65 Rated,30000 hrs Lamp Life, Surface Ceiling Light withwhite Plastic Housing and Polycarbonate Diffuser asLEDVANCE or approved equivalent forWashrooms.(Type C)	16	No.		
	iv) LED downlight 150mm surface mounted 17W, 1300lm ,6500k as Philips Meson or approved equivalent (Type A)	16	No.		
1	iv) 10W, Outdoor LED opal polycarbonate white Globe post mount 10 inches steel powder coated textured black as philips or approved equivalent(Type G)	3	No.		
	Sub-Total carried forward to next p	age			

Ite m	Description	Qty	Unit	Rate Kshs	Cost Kshs
	Sub-Total brought forward from previous page				
	 v) Standard Recessed 600 X 600mm Panel Light, 36W, 115Lm/W, 4000K LED, 50000 hrs Lamp Life, Steel Housing and Aluminum Rim, Polystyrene Diffuser with Integral Control Gear as PHILIPS or approved equivalent(Type E) 	18	No.		
	vi) 90mm dia. Circular Surface Ceiling LED Downlight 8W, 4000K, 50000 hrs Lamp Life, Plastic Housing and Polycarbonate Diffuser with Integral Control Gear as PHILIPS or approved equivalent(Type D)	6	No.		
	vii) 1200mm, 100 Lm/W, single 16W, 3000K LED Batten Luminaire yellowish output (warm) in color as Philips or approved eqivalent LED Batten(type		No.		
1.05	Self-contained single sided EXIT sign with 8W fluorescent lamp for non-maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent (Type I)	5	No.		
	Total carried to Bill No 1 Collection	Page			

Ite	Description	Qty	Unit	Rate	
m				Kshs	
1.06	RAW POWER POINTS Raw power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	50	No.		
1.07	13A moulded switched socket outlet plates as MK or approved equivalent as follows:ii) Twin switched	50	No.		
1.08	Hand drier power points comprising wiring in 3 x 4mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ HG/PVC conduits complete with all necessary accessories	3	No.		
1.09	20A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent	3	No.		
1.10	Bathroom/Toilet extract fan power points comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits	1	No.		
	45A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent Kitchen extract fan power points comprising wiring in	1	No.		
	3 x 2.5mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits	1	No.		
	20A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent Air Conditioning Unit power points comprising wiring in 3	1	No.		
1.12	x 6mm2 PVC/SC CU cables as Metsec or approved equivalent drawn in 32mmØ concealed HG PVC conduits	3	No.		
1.13	45A DP control switch with neon light and cord outlet for item above as MK or approved equivalent	3	No.		
	Undersink instanteneous water heater power points comprising wiring in 3 x 4mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits 45A DP control switch marked 'Water Heater' with	2	No.		
1.15	45A DP control switch marked water Heater with neon light and cord outlet for item above as MK or approved equivalent	2	No.		
	Sub_total carried forward to next p	age	1		

Ite	Description	Qty	Unit	Rate	Cost Kshs			
m	Sub-Total brought forward from previous page	~ ~ ~		Kshs				
1.16	Cooker Unit power points comprising wiring in 3x6mm2 PVC/SC/CU cables as Metsec or approved equivalent drawn in 32mm diameter HG/PVC conduit	2	No.					
1.17	45A Cooker control unit complete with 13A socket outlet and pilot lamps as MK or approved equivalent.	2	No.					
1.18	Table pop up power connection box with with configuration of 2No. Power, 2No.RJ45,1No.HDMI,1No.USB data,1No.VGA and 1No.Audio outlets for Boardroom LED Tv	1	No.					
	BOOSTER PUMPS							
1.19	a) Pump Motor Power Point, wired in 3x 4.0sq mmPVC SC copper cables drawn in concealed 42mmDia. HG PVC conduits complete with all accessoriesbut excluding the D.P switch.	2	No.					
1.20	b) 45A DP Control Switch marked 'As Per Application' with neon light and cord outlet for items above as MK, Crabtree or approved equivalent. BOREHOLE PUMPS	2	No.					
1.21	a) Pump MotorPower Point, wired in 3x 6.0sq mm PVC SC copper cables drawn in concealed 32mm Dia. HG PVC conduits complete with all accessories but excluding the D.P switch.	2	No.					
1.22	b) 45A DP Control Switch marked 'As Per Application' with neon light and cord outlet for items above as MK, Crabtree or approved equivalent.	2	No.					
	FIRE HOSE REEL PUMPS							
1.21	a) 4.0mm2 2 Core PVC/SWA/PVC copper cables drawn in concealed 25mm Dia. HG PVC conduits complete with all accessories but excluding the Isolator switch.	20	Lm.					
1.22	b) 20A DP Control Switch marked 'As Per Application' with neon light and cord outlet for items above as MK, Crabtree or approved equivalent.	2	No.					
1.23	Fire alarm control panel power points comprising wiring in 3 x 4.0mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits including all conduit accessories but excluding plates	1	No.					
1.24	20A, unswitched fused spur DP control switch with neon light and cord outlet for item above as MK or approved equivalent	1	No.					
	Total carried to Bill No 1 Collection	Page						
	Total carried to Bill No I Collection Page							

Ite m	Description	Qty	Unit	Rate Kshs	Cost Kshs
1.25	FIRE ALARM SYSTEM Fire Alarm points comprising wiring in 1.5mm ² fire	32	No.		
1.26	resistant Copper cables drawn in 20mmØ concealed Addressable Photoelectric Smoke Detector as Menvier or Approved Equivalent		No.		
1.27	Addressable Manual Fire Alarm 'Break Glass' call points as MENVIER or approved equivalent.	3	No.		
1.28	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved Microprocessor based 4-Loop Addressable Fire Alarm	2	No.		
1.29	control Panel as EATON or Approved Equivalent	1	No.		
	DATA/TELEPHONE/TELEVISION/CCTV& ACCESS CONTROL				
1.30	250 X 50mm - 2 compartment, gauge 16 sheet Deep Powder coated metal trunking complete with bends, outlet plates and other necessary accessories As Manufactured by Power Technics Data/Telephone outlet points comprising 25mmØ	100	LM		
1.31	concealed HG PVC conduits complete with draw wire.	34	No.		
1.32	Television cord outlet points comprising 25mmØ HG PVC conduits complete with T.V co-axial socket outlet as M.K or Approved Equivalent		No.		
1.33	CCTV points comprising draw wire in concealed 20mm Ø HG PVC Conduits all emanating from the server room/cabinet rooms	20	No.		
	Total carried to Bill No 1 Collection	Page			

Ite m	Description	Qty	Unit	Rate Kshs	Cost Kshs
	POWER DISTRIBUTION				
	Supply, Install, Test and Commission the following Distribution Boards as Eaton or approved equivalent				
	POWER DISTRIBUTION BOARDS				
1.34	125A, 12-Way, TPN DB surface/flush mounted as EATON or approved equivalent	1	No.		
1.35	SP Miniature circuit breakers for the distribution				
	i) 10A SP MCB	8	No.		
	ii) 20A SP MCB	6	No.		
	iii) 32A SP MCB	15	No.		
	iv) 45A SP MCB	5	No.		
	v) TP blanking plates	2	No.		
1.36	125A, 4-Way, TPN DB surface/flush mounted as EATON or approved equivalent	1	No.		
	SUB-MAINS & FEEDER CABLES				
1.37	16 mm ² 4-C PVC/SWA/PVC copper cable to DB above c/w approriate cable lugs	20	Lm		
	i) Cable glands for above cable	4	No.		
1.38	16 mm ² 4-C PVC/SWA/PVC copper cable to power Water Pump DB c/w approriate cable lugs	40	Lm		
	i) Cable glands for above cable	4	No.		
1.39	Allow for labelling the distribution boards under this section including all the incoming and outgoing circuits as per the specifications	1	Item		
	Total carried to Bill No 1 Collection Page	-			

Bill No. 1: GROUND FLOOR COLLECTION PAGE

Ite m	Description	Cost Kshs
1	TOTAL B/F Page G/4	
2	TOTAL B/F Page G/6	
3	TOTAL B/F Page G/7	
5	TOTAL B/F Page G/8	
	Total for Bill No. 1 C/F to Electrical Installation Works Summary	
	Page	

BILL No. 2: FIRST FLOOR

Item	No. 2: FIRST FLOOR Description	Qty	Unit	Rate Kshs	Cost Kshs
2.01	SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:- LIGHTING POINTS AND SWITCHES Lighting points wired in 3 x 1.5mm ² PVC/SC CU cables as Metsec or approved equivalent drawn in 20mmØ surface mounted HG/PVC conduits complete with all necessary accessories but excluding switches i) One way switching ii) Two way switching	50 14	No. No.		
	iii) Two way with intermediate switching	3	No.		
2.02	10A, moulded plastic ivory white switch plates as MK or approved equivalent as follows:-i) One gang one wayii) Two gang one way	18 2	No. No.		
	iii) Two gang two way	4	No.		
2.03	v) one gang intermediate Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-		No.		
	 i) 1200mm, 100 lm/W, single 16W, 6000K LED Batten Luminaire as Phillips or approved equivalent(Type F) iii) Circular LED 24W, 4000K, 1920lm, IP65 Rated, 	35	No.		
	30000 hrs Lamp Life, Surface Ceiling Light with white Plastic Housing and Polycarbonate Diffuser as LEDVANCE or approved equivalent for Washrooms.(Type C)	9	No.		
	iii) LED downlight 150mm surface mounted 17W,1300lm ,6500k as Philips Meson or approvedequivalent (Type A)	14	No.		
	iv) Standard Recessed 600 X 600mm Panel Light, 36W, 115Lm/W, 4000K LED, 50000 hrs Lamp Life, Steel Housing and Aluminum Rim, Polystyrene Diffuser with Integral Control Gear as PHILIPS or approved equivalent.(Type E)	3	No.		
	v) 90mm dia. Circular Surface Ceiling LED Downlight 8W, 4000K, 50000 hrs Lamp Life, Plastic Housing and Polycarbonate Diffuser with Integral Control Gear as PHILIPS or approved equivalent (Type D)	4	No.		
2.04	Self-contained single sided EXIT sign with 8W fluorescent lamp for non-maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent (Type I)	3	No.		
	Total carried to Bill No 2 Collection H	Page			

	Description	Qty	Unit	Rate Kshs	Cost Kshs
2.05	POWER POINTS Raw power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	40	No.		
	 13A moulded switched socket outlet plates as MK or approved equivalent as follows: ii) Twin switched Hand drier power points comprising wiring in 3 x 4mm² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ HG/PVC conduits complete with all necessary accessories 	40 2	No. No.		
2.08	20A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent	2	No.		
2.09	Kitchen extract power points comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits	2	No.		
	20A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent	2	No.		
2.11	Bathroom/Toilet extract power points comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits	2	No.		
2.12	45A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent	2	No.		
2.13	Undersink instanteneous water heater power points comprising wiring in 3 x 4mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ	2	No.		
2.14	45A DP control switch marked 'Water Heater' with neon light and cord outlet for item above as MK or approved equivalent	2	No.		
	Sub_total carried forward to next p	age			

Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
	Sub_total brought forward from previous page				
2.15	Air Conditioning Unit power points comprising wiring in 3 x 6mm2 PVC/SC CU cables as Metsec or approved equivalent drawn in 32mmØ concealed HG PVC conduits	2	No.		
2.16	45A DP control switch with neon light and cord outlet for item above as MK or approved equivalent	2	No.		
2.17	Cooker Unit power points comprising wiring in 3x6mm2 PVC/SC/CU cables as Metsec or approved equivalent drawn in 32mm diameter HG/PVC conduit complete with all necessary accessories	2	No.		
2.18	45A Cooker control unit complete with 13A socket outlet and pilot lamps as MK or approved equivalent.	2	No.		
2.19	Fire alarm control panel power points comprising wiring in 3 x 4.0mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits including all conduit accessories but excluding plates	1	No.		
2.20	20A, unswitched fused spur DP control switch with neon light and cord outlet for item above as MK or approved equivalent	1	No.		
	Total carried to Bill No 2 Collection I	Page			

	Description	Qty	Unit	Rate Kshs	Cost Kshs
2.21	FIRE ALARM SYSTEM Fire Alarm points comprising wiring in 1.5mm ² fire resistant cables drawn in 20mmØ concealed HG PVC conduits		No.		
2.22	Addressable Photoelectric Smoke Detector as Menvier or Approved Equivalent	20	No.		
2.23	Addressable Manual Fire Alarm 'Break Glass' call points as MENVIER or approved equivalent.	3	No.		
2.24	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved equivalent.		No.		
2.25	Microprocessor based Addressable Fire Alarm control Panel as EATON or Approved Equivalent DATA/TELEPHONE/TELEVISION /CCTV& ACCESS CONTROL	1	No.		
2.26	250 X 50mm - 3 compartment, gauge 16 sheet Deep Powder coated metal trunking complete with bends, outlet plates and other necessary accessories As Manufactured by Power Technics	100	LM		
2.27	Data/Telephone outlet points comprising 25mmØ concealed HG PVC conduits complete with draw wire.	27	No.		
2.28	Television cord outlet points comprising 25mmØ HG PVC conduits complete with T.V co-axial socket outlet as M.K or Approved Equivalent		No.		
2.29	CCTV points comprising draw wire in concealed 20mm Ø HG PVC Conduits all emanating from the server room/security office	10	No.		
	Total carried to Bill No 2 Collection I	Page			

Item	Description	Qty	Unit	Rate Kshs	Cost Kshs		
	POWER DISTRIBUTION						
	Supply, Install, Test and Commission the following Distribution Boards as Eaton or approved equivalent						
	RAW POWER DISTRIBUTION BOARDS						
2.30	125A, 10-Way, TPN DB surface/flush mounted as EATON or approved equivalent	1	No.				
2.31	 SP Miniature circuit breakers for the distribution i) 10A SP MCB ii) 20A SP MCB iii) 32A SP MCB 	4 7 10	No. No. No.				
	iii) 45A SP MCB	5	No.				
	v) 63A SP MCB	1	No.				
	v) TP blanking plates SUB-MAINS & FEEDER CABLES	2	No.				
2.32	16 mm ² 4-C PVC/SWA/PVC copper cable to DB above c/w approriate cable lugs	20	Lm				
	i) Cable glands for above cable	4	No.				
2.33	150x75mm, 14SWG cable tray c/w mounting row bolts and all other necessary accessories	50	Lm				
2.34	300x300x75mm recessed galvanised sheet steel draw boxes compete with powder coated cover and all other necessary accessories	2	No.				
2.35	Allow for labelling the distribution boards under this section including all the incoming and outgoing circuits as per the specifications	1	Item				
	Total carried to Bill No 2 Collection 1	Page					
Bill No.							
Item	Bill No. 2: FIRST FLOOR COLLEC	CTION	I PAGI	E			
1	TOTAL B/F Page G/9		•••••		 		
2	II TOTAL B/F Page G/11						
3	TOTAL B/F Page G/12				l 		

TOTAL B/F Page G/13.....

Total for Bill No. 2 C/F to Electrical Installation Works Summary

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BILL No. 3: SECOND FLOOR

Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
3.01	SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:- LIGHTING POINTS AND SWITCHES Lighting points wired in 3 x 1.5mm ² PVC/SC CU cables drawn in 20mmØ surface mounted HG/PVC conduits complete with all necessary accessories but				
	excluding switches for:- i) One way switching	66	No.		
3.02	ii) Two way switching 10A, moulded plastic ivory white switch plates as MK or approved equivalent as follows:-	15	No.		
	i) One gang one way iv) Two gang two way	20 6	No. No.		
3.03	Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-				
	i) 1200mm, 100 lm/W, single 16W, 6000K LED Batten Luminaire as Phillips or approved equivalent (Type F)	58	No.		
	ii) Circular LED 24W, 4000K, 1920lm, IP65 Rated, 30000 hrs Lamp Life, Surface Ceiling Light with white Plastic Housing and Polycarbonate Diffuser as LEDVANCE or approved equivalent for Washrooms.(Type C)	9	No.		
	iii) LED downlight 150mm surface mounted 17W,1300lm ,6500k as Philips Meson or approvedequivalent (Type A)	9	No.		
	iv)1200mm, IP65 twin-1 LED fitting with 24W, 4100lm, 4000K, tough exterior, moist and dust proof and average lifetime of 50,000hrs as Philips Coreline LED or approved equivalent (Type I)	1	No.		
	v) Standard Recessed 600 X 600mm Panel Light, 36W, 115Lm/W, 4000K LED, 50000 hrs Lamp Life, Steel Housing and Aluminum Rim, Polystyrene Diffuser with Integral Control Gear as PHILIPS or approved equivalent(Type E)	2	No.		
3.04	Self-contained single sided EXIT sign with 8W fluorescent lamp for non-maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent(Type I)	3	No.		
	Total carried to Bill No 3 Collection I	Page			

Ite m	Description	Qty	Unit	Rate Kshs	Cost	Kshs
3.05	POWER POINTS Raw power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates 13A moulded switched socket outlet plates as MK or	35	No.			
	approved equivalent as follows: ii) Twin switched	35	No.			
3.07	Hand drier power points comprising wiring in 3 x 4mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ HG/PVC conduits complete with all necessary accessories	2	No.			
3.08	20A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent	2	No.			
3.09	Kitchen extract power points comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits	2	No.			
	20A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent Bathroom/Toilet extract power points comprising	2	No.			
	wiring in 3 x 2.5mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits	2	No.			
3.12	45A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent	2	No.			
3.13	Undersink instanteneous water heater power points comprising wiring in 3 x 4mm ² PVC/SC/CU cables as Metsec or approved equivalent drawn in 25mmØ concealed HG PVC conduits	2	No.			
3.14	45A DP control switch marked 'Water Heater' with neon light and cord outlet for item above as MK or approved equivalent	2	No.			
3.15	Air Conditioning Unit power points comprising wiring in 3 x 6mm2 PVC/SC CU cables as Metsec or approved equivalent drawn in 32mmØ concealed HG PVC conduits	2	No.			
3.16	45A DP control switch with neon light and cord outlet for item above as MK or approved equivalent	2	No.			
	Sub_total carried forward to next p	age				

Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
	Sub_total brought forward from previous page				
3.17	Cooker Unit power points comprising wiring in 3x6mm2 PVC/SC/CU cables as Metsec or approved equivalent drawn in 32mm diameter HG/PVC conduit complete with all necessary accessories	2	No.		
3.18	45A Cooker control unit complete with 13A socket outlet and pilot lamps as MK or approved equivalent.	2	No.		
3.19	Fire alarm control panel power points comprising wiring in 3 x 4.0mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits including all conduit accessories but excluding plates	1	No.		
3.20	20A, unswitched fused spur DP control switch with neon light and cord outlet for item above as MK or approved equivalent	1	No.		
	Total carried to Bill No 3 Collection 1	Page			

	FIRE ALARM SYSTEM				
3.21	Fire Alarm points comprising wiring in 1.5mm ² heat resistant cables drawn in 20mmØ concealed HG PVC conduits	32	No.		
3.22	Addressable Photoelectric Smoke Detector as Menvier or Approved Equivalent	26	No.		
3.23	Addressable Manual Fire Alarm 'Break Glass' call points as MENVIER or approved equivalent.	3	No.		
3.24	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved equivalent.	2	No.		
3.25	Microprocessor based Addressable Fire Alarm Control Panel as EATON or Approved Equivalent	1	No.		
	DATA/TELEPHONE/TELEVISION/CCTV&AC CESS CONTROL				
	250 X 50mm - 3 compartment, gauge 16 sheet Deep Powder coated metal trunking complete with bends, outlet plates and other necessary accessories As Manufactured by Power Technics	100	LM		
3.27	Data/Telephone outlet points comprising 25mmØ concealed HG PVC conduits complete with draw wire.	20	No.		
3.28	Television cord outlet points comprising 25mmØ HG PVC conduits complete with T.V co-axial socket outlet as M.K or Approved Equivalent	2	No.		
3.29	CCTV points comprising draw wire in concealed 20mm Ø HG PVC Conduits all emanating from the server room/security office	14	No.		
	Total carried to Bill No 3 Collection F	age			

Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
	POWER DISTRIBUTION				
	Supply, Install, Test and Commission the following Distribution Boards as Eaton or approved equivalent				
	RAW POWER DISTRIBUTION BOARDS				
3.30	125A, 10-Way, TPN DB surface/flush mounted as EATON or approved equivalent	1	No.		
3.31	SP Miniature circuit breakers for the distribution				
	i) 10A SP MCB	6	No.		
	ii) 20A SP MCB	8	No.		
	iii) 32A SP MCB	10	No.		
	iii) 45A SP MCB	4	No.		
	v) TP blanking plates	2	No.		
3.32	SUB-MAINS & FEEDER CABLES				
3.32	16 mm ² 4-C PVC/SWA/PVC copper cable to DB above c/w approriate cable lugs	20	Lm		
	i) Cable glands for above cable	4	No.		
3.33	150x75mm, 14SWG cable tray c/w mounting row bolts and all other necessary accessories	50	Lm		
3.34	300x300x75mm recessed galvanised sheet steel draw boxes compete with powder coated cover and all other necessary accessories	2	No.		
3.35	Allow for labelling the distribution boards under this section including all the incoming and outgoing circuits as per the specifications	1	Item		
	Total carried to Bill No 3 Collection 1	Page			

Bill No. 3: SECOND FLOOR COLLECTION PAGE

Ite m	Description	Cost Kshs
1	TOTAL B/F Page G/14	
2	TOTAL B/F Page G/16	
3	TOTAL B/F Page G/17	
	TOTAL B/F Page G/18	
	Total for Bill No. 3 C/F to Electrical installation Works Summary	
	Page	

BILL No. 4: POWER DISTRIBUTION

Ite	Description	Qty	Unit	Rate Kshs	Cost Kshs
<u>m</u>	CONTROL SWITCH GEAR AND SUBMAINS CABLING. POWER DISTRIBUTION PANEL, LV BOARD: 10-Way Modular type, free standing power distribution panel board for floor mounting with both rear and front access panels, cable manager compartments, metal clad 14SWG, 415 mains L.V Switch Board manufuctured to BS EN60 439-1, form 2b seperation and fully wired for one incoming MCCB and 8No. TP outgoing feeders as described here below with the following and all the other necessary accessories: i) 350A TPN busbars ii) 300 Amps 4 pole Automatic Transfer Switching (ATS) system as Merlin Gerin "BA" or equal and approved. iii) Voltmeter/ Ammeters meters complete with associated current transformers; iv) All necessary interconnecting cables;	1	Item		
	 a) Incomer Adjustable TPN MCCB i) 300A TP MCCB main Incomer, adjustable and with trip coil as Crabtree or Equal and approved for above board b) Outgoing adjustable TPN MCCB i) 6x 63A TPN MCCB i) 32A TPN MCCB i) 2x40A TPN MCCB i) 80A TPN MCCB i) 10A TPN MCCB ii) 2 x Spare spaces 				
4.01	Allow for labelling the switch board under this section including all the incoming and outgoing circuits as per the specifications to Engineer's approval	1	Item		
4.02	Firemans switch including interwiring with the main incommer MCCB	1	Item		
4.03	200KVA,3 phase,400V,input voltage variation +_15%,Efficiency>98%, Frequency 50Hz+_5%,Voltage stablizer as ORION PLUS or approved equivalent	1	No.		
4.04	Earthing arrangements for the LV switchboard comprising 25x3mm copper tape lead, 1800mm long x 15mm diameter copper earth electrode as Furse or approved equivalent c/w driving stud and tape to rod clamp, 300mm x 300mm x 300mm deep concrete inspection earth pit with removable waterproof cover, 900mm x 900mm copper earth mat, soil conditioning agents comprising (marconite and bentonite) charcoal necessary to achieve earthing value below 10-Ohms and all other necessary accessories as per the requirements of the technical specifications to Engineer's approval	1	Item		

Ite m	Description	Qty	Unit	Rate	Kshs	Cost	Kshs
	Sub-Total brought forward from previous page						
	Sub Fotal brought forward from previous page						
	120 mm ² 4-C PVC/SWA/PVC copper cable from KPLC Turret		_				
4.05	to board above c/w approriate cable lugs (2NO.Cable per phase)	50	Lm				
4.06	i) Cable glands for above cable	2	No.				
	Allow for trenching to a depth of 750mm , back filling of						
4 07	trenches, and laying of "DANGER " cable tiling (for cable	20	Lm				
	running along non-concrete areas), reinstatement and making of good of ground as directed by the Engineer on site						
	Supply and lay the following uPVC ducts at 600mm below ground						
	level across drive ways and concrete areas. a) 100mm uPVC duct	20	Las				
	c) 150mm uPVC duct with concrete surround	20 20	Lm Lm				
	Construct 600mm x 600mm x 600mm deep concrete telephone						
4.11	manhole complete with cast iron waterproof cover as per technical						
	specifications to Engineer's approval	4	No.				
	16mm ² 4-C PVC/SWA/PVC copper conductor cables from the						
	LV Board to Lift Distribution Board laid in cable tray (measured	30	Lm				
4.13	elsewhere), a) Cable gland a for above cable	4	No.				
4.15	-		140.				
4 1 4	125A TPN isolator, weatherproof IP65 rated, wall mounted, labelled "LIFT POWER SUPPPLY" as manufactured by	1					
4.14	Telemecanique or KATKO.	1	No.				
	150x75mm, 14SWG cable tray c/w mounting row bolts for		1101				
4.15	mounting and all the other necessary accessories	50	Lm				
	AIR CONDITIONING/COLD ROOM OUTDOOR UNIT POWER SUPPLY						
116	16 mm2 4-C PVC/SWA/PVC copper cable to air conditioning D.B's c/w approriate cable lugs for the Outdoor AC unit	50	_				
4.10	D.D.S. C. w appronate cable lags for the Outdoor AC unit	50	Lm				
4.17	i) Cable glands for above cable	4	No.				
	ii) 63A TPN Adjustable MCCB for above cable	1	No.				
4.19	iii) 63A TPN metalclad Isolator	1	No.				
4 20	100A, 4-Way, TPN DB surface/flush mounted as EATON or approved equivalent	1					
		1	No.				
4.21	SP Miniature circuit breakers for the distribution board above,						
	i) 45A SP MCB	4	No.				
	v) TP blanking plates	2	No.				
	Total for Bill No. 4 C/F to Electrical installation Works						
	Summary Page						

BILL No. 5: LIGHTNING PROTECTION

Item	No. 5: LIGHTNING PROTECTION Description	Qty	Unit	Rate Kshs	Cost Kshs
5.00	Supply, install, test and commission the following: AIR TERMINATION Supply and lay along the ridge cap 25mm X 3mm thick bare copper tape and bonding to water tanks and other metal works in the roof as Furse or approved equivalent	30	LM		
5.01	Slate Holdfast at intervals of 1000mm for the above tape as Furse or approved equivalent	30	No.		
5.02	Air termination spike comprising 2000mm by 15mm diameter copper rod, Copper multiple point and Copper ridge saddle as Furse or approved equivalent DOWNWARD CONDUCTOR	4	Item		
5.03	Downward conductor comprising 25mm x 3mm thick bare copper tape as item 6.00	50	LM		
5.04	Copper square tape clamp for making crossing tape joints as Furse or approved equivalent	5	No.		
5.05	DC tape clips for fixing the down conductors to the wall as Furse or approved equivalent	50	No.		
5.06	Copper Oblong test clamp as Furse or approved equivalent	5	No.		
5.07	Steel conduits 32 mm diameter conduit.	50	LM		
5.08	Saddles for the above item 5.07	50	No.		
5.09	EARTHING Earth inspection concrete chamber 300mm x 300mm x 300mm with an air tight inspection cover to approval.	4	No.		
5.10	16 mm nominal diameter by 1500mm threaded copper bond earth rod driven to ground cat. No. RB 105 as Furse or approved equivalent	4	No.		
5.11	Driving stud cat.No. ST100 for the above item as Furse or approved equivalent	4	No.		
5.12	Earth electrode rod - to - downward conductor copper tape clamps as Furse or approved equivalent	4	No.		
5.13	Allow for appropriate transient over voltage protection equipment on all power switchboards, telephone, data and structured cables entering or leaving the building, in order to protect equipment connected to power distribution system against transient over voltages coming into the building from outside, all as per the requirements of the technical specifications and to Engineer's approval	1	Item		
5.14	Allow for testing and commissioning for entire lightning protection and grounding system to Engineer's approval	1	Item		
	Total for Bill No. 5 C/F to Electrical Installation Works Su	ımm	ary Pa	age	

	6: SECURITY PARKING/COMPUND LIGHTING LE 1 - SECURITY LIGHTS				
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
6.01	Supply, Install, Test and Commission the following 6m lighting column painted with rust proof aluminum paint completely secured on 300mm x 300mm x 25mm thick base plate and bolted in 600 x 600mm to firm ground concrete class 25 concrete foundation base	12	No.		
6.02	v) 200W, dusk to down solar Outdoor floodlights with Automatic light sensor, with in_built Li_phosphate 12.8V/15AH battery, charging time <=8hrs and discharge time >=30 hrs and 18V 50W Monocrystalline silicon solar panel, LED efficacy of >=60 Lm/W, lifespan of 5000hrs, 5years warranty,IP65 waterproof.	12	No.		
	Total c/f to Bill No.6 collection	n page			

	SCHEDULE 2 - PARKING / STRI	EET I	LIGHT	TING	
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
6.03	Supply, Install, Test and Commission the following 6mm ² 2-C PVC/SWA/PVC copper cable as				
	Metsec or approved equivalent c/w approriate cable lugs from external lighting Distribution board to metal control pillar	110	Lm		
	i) Cable glands for above cable	6	No.		
6.04	4mm ² 2-C PVC/SWA/PVC copper cable c/w approriate cable lugs from lighting control pillar to street lighting fittings i) Cable glands for above cable	90	Lm		
	4-pole Lucy connector mounted on bollard	12	No.		
	lighting columns.	52	No.		
6.05	Wiring with $2 \ge 1.5 \text{mm}^2$ twin PVC with ECC for bollard lighting fittings between lucy connector and lights.	60	Lm		
6.06	Trenching at an average depth of 750 mm laying, tilling and backfilling for bollard street lights	60	Lm		
6.07	Interlocking concrete tiles marked DANGER-HATARI	30	No.		
6.08	Cable route markers marked DANGER-HATARI to approval	25	No.		
6.09 6.10 6.11	Bollard lighting control pillar fabricated to MOPW Specifications and with enough space to accommodate 1 No. single phase KPLC meter, a 63A 4-way SPN Consumer unit, a socket outlet points wired in 3x2.5 mm2 SC/ PVC copper cablest including 13A plasticThe control pillar to be secured at 450mm above ground in concrete 1:2:4 ratio extending to 450mm belowground. moulded socket outlet plates, c/w necessary accessories to engineer's approval 4-way SPN Consumer unit with 63A integral isolator as crabtree or approved equivalent Miniature circuit breakers for above item ii) 20A SP	3	No.		
	ii) 20A SP ii) 10A SP	3	No.		
	iii) blanking plates	6	No.		
	,	1	No.		
	Sub_total carried forward to ne	ext pa	ge		

Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
	Sub-Total brought forward from previous page 100A, 4-Way, TPN DB surface/flush mounted as EATON or approved equivalent	2	No.		
	10 mm ² 4-C PVC/SWA/PVC copper cable to DB above c/w approriate cable lugs	20	LM		
	i) Cable glands for above cable	4	No.		
6.12	10A cut-out complete with a 5A HRC fuse type Henley or equivalent mounted on the column.	3	No.		
6.13	300mA 60A SPN RCBO	3	No.		
6.14	Earthing of control pillar column to Enginners approval	3	Item		
6.14 6.15	30A CI-duty 240V, DP Contactor as manufactured by Telemecanique or approved equivalent, to be installed inside the control pillar.	3	No.		
6.16	A photocell to fit 70-75lux switch on level and 1.5 maximum differential and as THORN QPK or approved equivalent	3	No.		
6.17	Wiring from the 4 ways SPN CU to the contactor in 3 x 4.0 sq-mm SC/PVC copper cables	3	No.		
6.18	Wiring in 2.5 sq-mm 2C/PVC/SWA/PVC UG copper cable from the contactor in the SLCP to the photocell .	10	М		
6.19	i) Metallic cable glands for item above	6	No		
6.20	Earthing the metal control pillar to Enginners approval	3	No.		
6.21	32mm diameter HG/PVC ducts across the road sections with concrete surround to approval	60	М		
6.22	600 x 450 x 450 mm deep manhole with conrete metal cover <u>Light Fitting</u>	3	No		
6.23	30cm by 60cm 12W LED Bollard Garden Light 3000K LED Decoration Garden LED Lamp 3120lm complete with pole mounting structure, impact and shock resistant diffuser glass, as philips or other approved equivalent Total c/f to Bill No.6 collection page		No.		

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	ENGINEER STATIONERY				()
	Tenderers shall price for the following				
	stationery requirements. These shall then be				
	delivered, upon their first demand to the				
	Chief Engineer - Electrical immediately				
	after the award to the successful tenderer.				
1.00	2No.A4 HP LaserJet MFP M236sdw Printer	2	No.		
	to the Project Engineer	2	110.		
2.00	Hp laserjet toner for the above printer	2	No.		
3.00	Kyocera TaskAlfa Toner/ Cartridge TK-8735K				
	a) Black	2	No.		
	b) Cyan	2	No.		
	c) Magenta	2	No.		
	d) Magenta	2	No.		
4.00	Photocopy paper, size A4, 80g/cm ³ , White,	20	Rea		
	500 sheets per ream	20	ms		
5.00	A4 size, Translucent PVC covers as KATCO	5	Pkts		
	or approved equivalent - 100 sheets (Blue in				
	color and 0.2mm thick)				
6.00	A4 size, Embossed as KATCO or approved	5	Pkts		
	equivalent - 100 sheets (Blue in color and				
	0.2mm thick)				
7.00	18mm, diameter Spiral Binders black in	5	Pkts		
	colour - 100 pieces.				
8.00	Cream Letterhead quality paper as				
	CONQUERER or equal and approved	2	Rea		
	80g/m3		m		
	hp lite book 840G8,core i7 11 12th				
9.00	Generation, speed 3.0HZ, 16GB RAM, 512GB	1	No.		
	storage,14 inch screen size.				
	Total c/f to Bill No.7				

Bill No. 6: SECURITY PARKING/COMPOUND LIGHTING COLLECTION PAGE

Item	Description	Cost Kshs
1	TOTAL B/F Page G/21	
2	TOTAL B/F Page E/23	
	Total for Bill No. 6 C/F to Electrical Installation Summary Page	

Item	Description	Cost Kshs
1	TOTAL B/F from Bill No.1 COLLECTION PAGE	
2	TOTAL B/F from Bill No.2 COLLECTION PAGE	
3	TOTAL B/F from Bill No.3 COLLECTION PAGE	
4	TOTAL B/F from Bill No.4	
5	TOTAL B/F from Bill No.5	
6	TOTAL B/F from Bill No.6 COLLECTION PAGE	
	TOTAL FOR ELECTRICAL INSTALLATION WORKS C/F TO GRAND SUMMARY PAGE	

ELECTRICAL INSTALLATIONS WORKS SUMMARY PAGE

ANNEX TO BILLS OF QUANTITIES - SCHEDULE OF LIGHTING FITTINGS

Type A: i		
	i) LED downlight 150mm surface mounted 17W, 1300lm ,6500k as Philips Meson or approved equivalent	
У	ii) 1200mm, 100 Lm/W, single 16W, 3000K LED Batten Luminaire yellowish output (warm) in color as Philips or approved eqivalent LED Batten	
S	iii) Circular LED 24W, 4000K, 1920lm, IP65 Rated, 30000 hrs Lamp Life, Surface Ceiling Light with white Plastic Housing and Polycarbonate Diffuser as LEDVANCE or approved equivalent for Washrooms.	
h	viii) 90mm dia. Circular Surface Ceiling LED Downlight 8W, 4000K, 50000 hrs Lamp Life, Plastic Housing and Polycarbonate Diffuser with Integral Control Gear as PHILIPS or approved equivalent	
Ι	iv) Standard Recessed 600 X 600mm Panel Light, 36W, 115Lm/W, 4000K LED, 50000 hrs Lamp Life, Steel Housing and Aluminum Rim, Polystyrene Diffuser with Integral Control Gear as PHILIPS or approved equivalent.	
	v) 1200mm, 100 lm/W, single 16W, 6000K LED Batten Luminaire as Phillips or approved equivalent.	
	vi) 10W, Outdoor LED opal polycarbonate white Globe post mount 10 inches steel powder coated textured black as philips or approved equivalent	
e	vii)1200mm, IP65 twin-1 LED fitting with 24W, 4100lm, 4000K, tough exterior, moist and dust proof and average lifetime of 50,000hrs as Philips Coreline LED or approved equivalent	
r	ix)Self-contained single sided EXIT sign with 8W fluorescent lamp for non- maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent	

BILL NO.4 - MECHANICAL WORKS

TENDER SPECIFICATIONS FOR SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF SANITARY FITTINGS, INTERNAL PLUMBING, INTERNAL DRAINAGE AND FIRE PROTECTION INSTALLATION

TABLE OF CONTENTS

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SECTION F: Technical Schedule of Items to be supplied	F-1 to F-3
SECTION G: Schedule of Drawings	G-1
SECTION H: Standard Forms	H-1 to H-5

PART1: TENDERING PROCEDURES

TENDER EVALUATION CRITERIA

Note: The tenderer, who shall be domestic subcontractor to the Main Contractor upon award of the tender, must comply with the following conditions and instructions failure to which the tender shall be rejected.

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:

- i) Company Certificate of incorporation/registration;
- ii) Current National Construction Authority Registration certificate (NCA5 and above in Mechanical Engineering (Plumbing and Drainage, Fire Protection Installations Works) and current annual practicing license.
- iii) Valid Tax Compliance Certificate;
- iv) Provide a copy of valid business permit;
- v) Dully filled (in ink) Bills of quantities in the format provided;
- vi) Compliance with Technical Specifications.

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 brochure/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) Any other necessary requirements so as to comply with the bid technical specifications.

The bid will then be analyzed, using the information in the technical brochures, to determine compliance with key

technical specifications for the works/items as indicated in the tender document. Bidders not complying with any of

the key Technical Schedule specifications shall be Non-Responsive while those meeting all the key technical

specifications shall be **Responsive** (evaluation committee may add more key requirements from the bid

technical specifications.

The tenderer shall also fill in the Technical Schedule as Specified in the tender document for Equipment's 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 EVALUATIONS

A) Assessment for eligibility

The tender document shall be examined based on a detailed scoring plan shall be as shown in table 1 below.

TABLE 1: Assessment	for	Eligibility
----------------------------	-----	-------------

Item	Description	Met	Not Met
i	Key Personnel (Attach evidence)		
	Director of the firm		
	Holder of degree/ Diploma in relevant field		
	At least 1No. degree/diploma of key personnel in relevant Engineering field		
	• With over 10 years relevant experience		
	At least 1No certificate holder of key personnel in relevant Engineering field		
	With over 10 years relevant experience		_
	 At least 2No artisan (trade test certificate in relevant Engineering field) Artisan with over 10 years relevant experience 		
ii	Contract Completed in the last five (5) years (Max of 3 No. Projects)- Provide		
	Evidence		
iii	Project of similar nature, complexity and magnitude Schedule of contractors againment and transport (proof or evidence of		
111	iii Schedule of contractors equipment and transport (proof or evidence of ownership/Lease)		
	a) Relevant Transport (at least 2No.)		
	Means of transport (Vehicle)		
	b) Relevant Equipment (at least 5No.)		
	Has relevant equipment for work being tendered		
iv	Litigation History		
	Form Filled		
v	REMARKS		

Any bidder who meets the above shall be considered for further evaluation

PART II - WORKS REQUIREMENTS

GENERAL MECHANICAL SPECIFICATIONS

SECTION C

GENERAL MECHANICAL SPECIFICATION

CLAU	SE DESCRIPTION	PAGE
2.01	GENERAL	B-1
2.02	QUALITY OF MATERIALS	B-1
2.03	REGULATIONS AND STANDARDS	B-1
2.04	ELECTRICAL REQUIREMENTS	B-2
2.05	TRANSPORT AND STORAGE	B-2
2.06	SITE SUPERVISION	B-2
2.07	INSTALLATION	B-2
2.08	TESTING	B-2
2.09	COLOUR CODING	B-4
2.10	WELDING	B-4

GENERAL MECHANICAL SPECIFICATION

2.01 General

This section specifies the general requirement for plant, equipment and materials forming part of the Subcontract Works and shall apply except where specifically stated elsewhere in the Specification or on the Contract Drawings.

2.02 **Quality of Materials**

All plant, equipment and materials supplied as part of the Sub-contract Works shall be new and of first-class commercial quality, shall be free from defects and imperfections and where indicated shall be of grades and classifications designated herein.

All products or materials not manufactured by the Sub-contractor shall be products of reputable manufacturers and so far as the provisions of the Specification is concerned shall be as if they had been manufactured by the Sub-contractor.

Materials and apparatus required for the complete installation as called for by the Specification and Contract Drawings shall be supplied by the Sub-contractor unless mention is made otherwise.

Materials and apparatus supplied by others for installation and connection by the Sub-contractor shall be carefully examined on receipt. Should any defects be noted, the Sub-contractor shall immediately notify the Engineer.

Defective equipment or that damaged in the course of installation or tests shall be replaced as required to the approval of the Engineer.

2.03 **Regulations and Standards**

The Sub-contract Works shall comply with the current editions of the following:

- a) The Kenya Government Regulations.
- a) The United Kingdom Institution of Electrical Engineers (IEE) Regulations for the Electrical Equipment of Buildings.
- b) The United Kingdom Chartered Institute of Building Services Engineers (CIBSE) Guides.
- c) British Standard and Codes of Practice as published by the British Standards Institution (BSI)
- e) The Local Council By-laws.
- f) The Electricity Supply Authority By-laws.
- g) Local Authority By-laws.
- h) The Kenya Building Code Regulations.
- i) The Kenya Bureau of Standards

2.04 Electrical Requirements

Plant and equipment supplied under this Sub-contract shall be complete with all necessary motor starters, control boards, and other control apparatus. Where control panels incorporating several starters are supplied, they shall be complete with a main isolator.

The supply power up to and including local isolators shall be provided and installed by the Electrical Subcontractor. All other wiring and connections to equipment shall form part of this Sub-contract and be the responsibility of the Sub-contractor.

The Sub-contractor shall supply three copies of all schematic, cabling and wiring diagrams for the Engineer's approval.

The starting current of all electric motors and equipment shall not exceed the maximum permissible starting currents described in the Kenya Power and Lighting Company (KPLC) By-laws.

All electrical plant and equipment supplied by the Sub-contractor shall be rated for the supply voltage and frequency obtained in Kenya, that is 415 Volts, 50Hz, 3-Phase or 240Volts, 50Hz, 1-phase.

Any equipment that is not rated for the above voltages and frequencies shall be rejected by the Engineer.

2.05 Transport and Storage

All plant and equipment shall, during transportation be suitably packed, crated and protected to minimize the possibility of damage and to prevent corrosion or other deterioration.

On arrival at site all plant and equipment shall be examined and any damage to parts and protective priming coats made good before storage or installation.

Adequate measures shall be taken by the Sub-contractor to ensure that plant and equipment do not suffer any deterioration during storage.

Prior to installation all piping and equipment shall be thoroughly cleaned.

If, in the opinion of the Engineer any equipment has deteriorated or been damaged to such an extent that it is not suitable for installation, the Sub-contractor shall replace this equipment at his own cost.

2.06 Site Supervision

The Sub-contractor shall ensure that there is an English-speaking supervisor on the site at all times during normal working hours.

2.07 Installation

Installation of all special plant and equipment shall be carried out by the Sub-contractor under adequate supervision from skilled staff provided by the plant and equipment manufacturer or his appointed agent in accordance with the best standards of modern practice and to the relevant regulations and standards described under Clause 2.03 of this Section.

2.08 <u>Testing</u>

2.08.1 General

The Sub-contractor's attention is drawn to Part 'C' Clause 1.38 of the "Preliminaries and General Conditions".

2.08.2 Material Tests

All material for plant and equipment to be installed under this Sub-contract shall be tested, unless otherwise directed, in accordance with the relevant B.S Specification concerned.

For materials where no B.S. Specification exists, tests are to be made in accordance with the best modern commercial methods to the approval of the Engineer, having regard to the particular type of the materials concerned.

The Sub-contractor shall prepare specimens and performance tests and analyses to demonstrate conformance of the various materials with the applicable standards.

If stock material, which has not been specially manufactured for the plant and equipment specified is used, then the Sub-contractor shall submit satisfactory evidence to the Engineer that such materials conform to the requirements stated herein in which case tests of material may be partially or completely waived.

Certified mill test reports of plates, piping and other materials shall be deemed acceptable.

2.08.3 Manufactured Plant and Equipment - Work Tests

The rights of the Engineer relating to the inspection, examination and testing of plant and equipment during manufacture shall be applicable to the Insurance Companies or Inspection Authorities so nominated by the Engineer.

The Sub-contractor shall give two weeks' notice to the Engineer of the manufacturer's intention to carry out such tests and inspections.

The Engineer or his representative shall be entitled to witness such tests and inspections. The cost of such tests and inspections shall be borne by the Sub-contractor.

Six copies of all test and inspection certificates and performance graphs shall be submitted to the Engineer for his approval as soon as possible after the completion of such tests and inspections.

Plant and equipment which is shipped before the relevant test certificate has been approved by the Engineer shall be shipped at the Sub-contractor's own risk and should the test and inspection certificates not be approved; new tests may be ordered by the Engineer at the Sub-contractor's expense.

2.08.4 Pressure Testing

All pipe work installations shall be pressure tested in accordance with the requirements of the various sections of this Specification. The installations may be tested in sections to suit the progress of the works but all tests must be carried out before the work is buried or concealed behind building finishes. All tests must be witnessed by the Engineer or his representative and the Sub-contractor shall give 48 hours' notice to the Engineer of his intention to carry out such tests.

Any pipe work that is buried or concealed before witnessed pressure tests have been carried out shall be exposed at the expense of the Sub-contractor and the specified tests shall then be applied.

The Sub-contractor shall prepare test certificates for signature by the Engineer and shall keep a progressive and up-to-date record of the section of the work that has been tested.

2.08.5 Shop drawings

Before manufacture or Fabrication is commenced the contractor shall submit Two copies of detailed drawings of all water tanks, fire hose reel pump, water booster pump and any other equipment 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 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.

2.09 Colour Coding

Unless stated otherwise in the Particular Specification all pipe work shall be color coded in accordance with the latest edition of B.S 1710 and to the approval of the Engineer or Architect.

2.10 Welding

2.10.1 Preparation

Joints to be made by welding shall be accurately cut to size with edges sheared, flame cut or machined to suit the required type of joint. The prepared surface shall be free from all visible defects such as lamination, surface imperfection due to shearing or flame cutting operation, etc., and shall be free from rust scale, grease and other foreign matter.

2.10.2 <u>Method</u>

All welding shall be carried out by the electric arc processing using covered electrodes in accordance with B.S. 639.

Gas welding may be employed in certain circumstances provided that prior approval is obtained from the Engineer.

2.10.3 Welding Code and Construction

All welded joints shall be carried out in accordance with the following Specifications:

a) <u>Pipe Welding</u>

All pipe welds shall be carried out in accordance with the requirements of B.S.806.

b) General Welding

All welding of mild steel components other than pipework shall comply with the general requirements of B.S. 1856.

2.10.4 Welders Qualifications

Any welder employed on this Sub-contractor shall have passed the trade tests as laid down by the Government of Kenya.

The Engineer may require to see the appropriate to see the appropriate certificate obtained by any welder and should it be proved that the welder does not have the necessary qualifications the Engineer may instruct the Sub- contractor to replace him by a qualified welder.

CLAUSE No.	DESCRIPTION	PAGE
1.1	General	C-1
1.2	Materials and standards	C-1
1.2.1	Pipework and Fittings	C-1
1.2.2	Valves	C-3
1.2.3	Waste Fitment Traps	C-4
1.2.4	Pipe Supports	C-4
1.2.5	Sanitary Appliances	C-6
1.2.6	Pipe Sleeves	C-6
1.3	Installation	C-6
1.3.1	General	C-6
1.3.2	Above Ground Installation	C-6
1.4	Testing Inspection	C-6
1.4.1	Site Tests – Pipework Systems	C-6
1.4.2	Site Test – Performance	C-6
1.5	sterilization of Hot and Cold-Water System	C-7

PARTICULAR PLUMBING AND DRAINAGE SPECIFICATIONS

GENERAL

SITE LOCATION

The site of the proposed works is at **Mutomo Kitui County** SCOPE OF WORKS

The works to be carried out under this sub-contract comprise Supply, Installation, Testing and commissioning of the following: -

Sanitary Fittings, Plumbing and Drainage and Fire Protection Installation works. BROCHURES FOR DEVICES

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

This section specifies the general requirements for plant, equipment and materials forming part of the plumbing and drainage installations.

3.2 MATERIALS AND STANDARDS

3.2.1 Pipework and Fittings

Pipework materials are to be used as follows:

i. Galvanized Steel Pipework

Galvanized steel pipe works up to 65mm nominal bore shall be manufactured in accordance with B.S. 1387 Medium Grade, with tapered pipe threads in accordance with B.S. 21. All fittings shall be malleable iron and manufactured in accordance with B.S. 143.

Pipe joints shall be screwed and socketed and sufficient coupling unions shall be allowed so that fittings can be disconnected without cutting the pipe. Running nipples and long screws shall not be permitted unless exceptionally approved by the Engineer.

Galvanized steel pipe work, 80mm nominal bore up to 150mm nominal bore shall be manufactured to comply in all respects with the specification for 65mm pipe, except that screwed and bolted flanges shall replace unions and couplings for the jointing of pipes to valves and other items of plant. All flanges shall comply with the requirements of B.S. 10 to the relevant classifications contained hereinafter under Section 'C' of the Specification.

Galvanizing shall be carried out in accordance with the requirements of B.S. 1387 and B.S. 143 respectively.

ii. Copper Tubing

All copper tubing shall be manufactured in accordance with B.S. 2871 from C.160 'Phosphorous De-oxidized Non-Arsenical Copper' in accordance with B.S. 1172.

Pipe joints shall be made with soldered capillary fittings and connections to equipment shall be with compression fittings manufactured in accordance with B.S. 864.

iii. <u>Cpvc</u> piping

PVC (polyvinyl chloride) that has been chlorinated via a free radical chlorination reaction

CPVC is produced by adding chlorine to PVC in a water slurry or fluidized bed chlorination process. The chlorination reaction is initiated by ultraviolet light. The chlorinated PVC is compounded with ingredients necessary for the desired properties for further processing. The chlorine added to PVC gives CPVC higher temperature performance and improved fire and corrosion resistance.

Should conform to ASTM D2846 standard and ASTM F441 Standard for chlorinated poly vinyl chloride pipes.

Short copper connection tubes between galvanized pipe work and sanitary fitments shall not be used because of the risk of galvanic action.

If, as may occur in certain circumstances, it is not possible to make the connection in any way than the use of copper

tubing, then a brass straight connector shall be positioned between the galvanized pipe and the copper tube in order to

prevent direct contact.

P.V.C. (Hard) Pressure Pipes and Fittings

All P.V.C. pipes and fittings shall be manufactured in accordance with B.S. 3505: 1968.

Jointing

b)

The method of jointing to be employed shall be that of solvent welding, using the pipe and manufacturer's approved cement. Seal ring joint shall be introduced where it is necessary to accommodate thermal expansion.

Testing

Pipelines shall be tested in sections under an internal water pressure normally one and a half times the maximum allowable working pressure of the class of pipe used. Testing shall be carried out as soon as practical after laying and when the pipeline is adequately anchored. Precautions shall be taken to eliminate all air from the test section and to fill the pipe slowly to avoid risk of damage due to surge.

c)

A.B.S. Waste System

Where indicated on the Drawings and Schedules, the Sub-contractor shall supply and fix A.B.S. waste pipes and fittings.

The pipes, traps and fittings shall be in accordance with the relevant British Standards, including B.S. 3943, and fixed generally in accordance with manufacturer's instructions and B.S. 5572: 1978.

Jointing of pipes shall be carried out by means of solvent welding, the manufacturer's instructions and B.S. 5572: 1978.

Jointing of pipes shall be carried out by means of solvent welding. The manufacturer's recommended method of joint preparation and fixing shall be followed.

Standard brackets, as supplied for use with this system, shall be used wherever possible. Where the building structure renders this impracticable the Sub-contractor shall provide purpose made supports, centers of which shall not exceed one meter.

Expansion joints shall be provided as indicated.

Supporting brackets and pipe clips shall be fixed on each side of these joints.

d). PVC Soil System

The Sub-contractor shall supply and fix PVC soil pipes and fittings as indicated on the Drawings and Schedules.

Pipes and fittings shall be in accordance with relevant British Standards, including B.S. 4514 and fixed to the manufacturer's instructions and B.S. 5572.

The soil system shall incorporate synthetic rubber gaskets as provided by the manufacturer whose fixing instructions shall be strictly adhere to.

Connections to WC pans shall be effected by the use of a WC connector, gasket and cover, fixed to suit pan outlet.

Suitable supporting brackets and pipe clips shall be provided at maximum of one meter centers.

The Sub-contractor shall be responsible for the joint into the Gully Trap on Drain as indicated on the Drawings.

3.2.2. Valves

a).Draw-off Taps and Stop Valves (Up to 50mm Nominal Bore)

Draw-off taps and valves up to 50mm nominal bore, unless otherwise stated or specified for attachment or connection to sanitary fitment shall be manufactured in accordance with the requirements of B.S.1010.

b).Gate Valves

All gate valves 80mm nominal bore and above, other than those required for fitting to buried water mains shall be of cast iron construction, in accordance with the requirements of B.S. 3464. All gate valves required for fitting to buried water mains shall be of cast iron construction in accordance with the requirements of B.S.1218.

All gate valves up to and including 65mm nominal bore shall be of bronze construction in accordance with the requirements of B.S. 1952.

The pressure classification of all valves shall depend upon the pressure conditions pertaining to the site of works. c).**Globe Valves**

All globe valves up to and including 65mm nominal bore shall be of bronze construction in accordance with the requirements of B.S.3061.

The pressure classification of all globe valves shall depend upon the pressure conditions pertaining to the site of works.

3.2.3 Waste Fitment Traps

a) <u>Standard and Deep Seal P & S Traps</u>

Where standard or deep seal traps are specified, they shall be manufactured in suitable non-ferrous materials in accordance with the full requirements of B.S. 1184.

In certain circumstances, cast iron traps may be required for cast iron baths and in these instances bath traps shall be provided which are manufactured in accordance with the full requirements of B.S.1291.

b) <u>Anti-Syphon Traps</u>

Where anti-syphon traps are specified, these shall be similar or equal to the range of traps manufactured by Greenwood and Hughes Limited, Deacon Works Littleshampton, Sussex, England.

The trade name for traps manufactured by this company is 'Grevak'.

3.2.4 Pipe Supports

a) <u>General</u>

This sub-clause deals with pipe supports securing pipes to the structure of buildings for above ground application.

The variety and type of support shall be kept to a minimum and their design shall be such as to facilitate quick and

secure fixings to metal, concrete, masonry or wood.

Consideration shall be given, when designing supports, to the maintenance of desired pipe falls and the restraining of pipe movements to a longitudinal axial direction only.

The Sub-contractor shall supply and install all steelwork forming part of the pipe support assemblies and shall be responsible for making good damage to builder's work associated with the pipe support installation.

The Sub-contractor shall submit all his proposals for pipe supports to the Engineer for approval before any erection works commence.

b) <u>Steel and Copper Pipes and Tubes</u>

Pipe runs shall be secured by clips connected to pipe angers, wall brackets, or trapeze type supports. 'U' bolts shall not

be used as a substitute for pipe clips without the prior approval of the Engineer.

An approximate guide to the maximum permissible supports spacing in meters for steel and copper pipe and tube is given in the following table for horizontal runs.

Size Nominal Bores	Copper Tube to B.S. 659	Steel Tube to B.S. 1387
15mm	1.25m	2.0m
20mm	2.0m	2.5m
25mm	2.0m	2.5m
32mm	2.5m	3.0m
40mm	2.5m	3.0m
50mm	2.5m	3.0m
65mm	3.0m	3.5m
80mm	3.0m	3.5m
100mm	3.0m	4.0m
125mm	3.0m	4.5m
150mm	3.5m	4.5m

The support spacing for vertical runs shall not exceed one and a half times the distances given for horizontal runs.

C) Expansion Joints and Anchors

Where practicable, cold pipework systems shall be arranged with sufficient bends and changes of direction to absorb pipe expansion providing that the pipe stresses are contained within the working limits prescribed in the relevant B.S. specification.

Where piping anchors are supplied, they shall be fixed to the main structure only.

Details of all anchor design proposals shall be submitted to the Engineer for approval before erection commences.

The Sub-contractor when arranging his piping shall ensure that no expansion movements are transmitted directly to connections and flanges on pumps or other items of plant.

The Sub-contractor shall supply flexible joints to prevent vibrations and other movements being transmitted from pumps to piping systems or vice versa.

3.2.5 Sanitary Appliances

All sanitary appliances supplied and installed as part of the Sub-contract works shall comply with the general requirements of B.S. Code of Practice 305 and the particular requirements of the latest B.S. Specifications. They shall be as described in the bill of quantities.

3.2.6 <u>Pipe Sleeves</u>

Main runs of pipework are to be fitted with sleeves where they pass through walls and floors. Generally, the sleeves shall be of P.V.C. except where they pass through the structure, where they shall be mild steel. The sleeves shall have 6mm - 12mm clearance all around the pipe or for insulated pipework all around the installation. The sleeve will then be packed with slag wool or similar.

3.3 **INSTALLATION**

3.3.1 <u>General</u>

Installation of all pipework, valves, fittings and equipment shall be carried out under adequate supervision from skilled staff to the relevant codes and standards as specified herein. The Sub-contractor shall be responsible to the Main Contractor for ensuring that all builders work associated with his piping installation is carried out in a satisfactory manner to the approval of the Engineer.

3.3.2 above Ground Installation

a) Water Services

Before any joint is made, the pipes shall be hung in their supports and adjusted to ensure that the joining faces are parallel and any falls which shall be required are achieved without springing the pipe.

Where falls are not shown on the Contract Drawings or stated elsewhere in the Specification, pipework shall be installed parallel to the lines of the buildings and as close to the walls, ceilings, columns, etc., as is practicable.

All water systems shall be provided with sufficient drain points and automatic air vents to enable them to function correctly.

Valves and other user equipment shall be installed with adequate access for operation and maintenance.

Where valves and other operational equipment are unavoidably installed beyond normal reach or in such Position as to be difficult to reach from a small step ladder, extension spindles with floor or wall pedestals shall be provided.

Screwed piping shall be installed with sufficient number of unions to facilitate easy removal of valves and fittings, and to enable alterations of pipework to be carried out without the need to cut the pipe.

Full allowances shall be made for the expansion and contraction of pipework, precautions being taken to ensure that any force produced by the pipe movements are not transmitted to valves, equipment or plant. All screwed joints to piping and fittings shall be made with P.T.F.E. tape.

The test pressure shall be maintained by the pump for about one hour and if there is any leakage, it shall be measured by the quantity of water pumped into the main in that time. A general leakage of 4.5 litres per 25mm of diameter, per 1.6 kilometres per 24 hours per 30 metres head, may be considered reasonable but any visible individual leak shall be repaired.

Sanitary Services

Soil, waste and vent pipe system shall be installed in accordance with the best standard of modern practice as described in B.S. 5572 to the approval of the Engineer.

The Sub-contractor shall be responsible for ensuring that all ground waste fittings are discharged to a gully trap before passing to the sewer via a manhole.

The Sub-contractor shall provide all necessary rodding and inspection facilities within the draining system in positions where easy accessibility is available.

Where a branch requires rodding facilities in a position to which normal access is unobtainable, then that branch shall be extended so as to provide a suitable purpose made rodding eye in the nearest adjacent wall or floor to which easy access is available.

The vent stacks shall terminate above roof level and where stack passes through roof, a weather skirt shall be provided. The Sub-contractor shall be responsible for sealing the roof after installation of the stacks. The open end of each stack shall be fitted with a plastic coated or galvanized steel wire guard. Access for rodding and testing shall be provided at the foot of each stack.

c) <u>Sanitary Appliances</u>

All sanitary appliances associated with the Sub-contract works shall be installed in accordance with the best standard of modern practice as described in C.P. 305 to the approval of the Engineer.

1.1. TESTING AND INSPECTION

3.4.1 Site Tests Pipework Systems

a) Above Ground Internal Water Services Installation

All water service pipe system installed above ground shall be tested hydraulically for a period of ten hours to not less than one and half times to design working pressure.

If preferred, the Sub-contractor may test the pipelines in sections. Any such section found to be satisfactory need not be the subject of a further test when system has been completed, unless specifically requested by the Engineer. During the test, each branch and joint shall be examined carefully for leaks and any defects revealed shall be made good by the Sub-contractor and the section re-tested.

The Sub-contractor shall take all necessary precautions to prevent damage occurring to special valves and fittings during the tests. Any item damaged shall be repaired or replaced at the Sub-contractor's expenses.

b) Above Ground Soil Waste and Ventilation System

All soil, waste and ventilating pipe system forming part of the above ground installation, shall be given appropriate test procedures as described in B.S. 5572, 1972.

Smoke tests on above ground soil, waste and ventilating pipe system shall not be permitted.

Pressure tests shall be carried out before any work which is to be concealed is finally enclosed.

In all respects, tests shall comply with the requirements of B.S. 5572.

3.4.2 Site Test – Performance

Following satisfactory pressure test on the pipework system operational tests shall be carried out in accordance with the relevant B. S. Code of practice on the systems as a whole to establish that special valves, gauges, control, fittings, equipment and plant are functioning correctly to the satisfaction of the Engineer.

All hot water pipework shall be installed with pre-formed fibre glass lagging to a thickness of 25mm where the pipe runs above a false ceiling or in areas where the ambient temperature is higher than normal with the result that pipe "sweating", due

to condensation will cause nuisance.

All lagged pipes which run in a visible position after erection shall be given a canvas cover and prepared for painting as follows:

- Apply a coating of suitable filler until the canvas weave disappears and allow to dry.
- Apply two coats of an approved paint and finish in suitable gloss enamel to colors approved by the Engineer. All lagging for cold and hot water pipes erected in crawlways, ducts and above

false ceiling which after erection are not visible from the corridors of rooms, shall be covered with a reinforced aluminium foil finish banded in colours to be approved by the Engineer.

In all respects, unless otherwise stated, the hot and cold-water installation shall be carried out in accordance with the best standard of modern practice and described in C.P.342 and C.P.310 respectively to the approval of the Engineer. The test pressure shall be applied by means of a manually operated test pump or, in the case of long main or mains of large diameter, by a power-driven test pump which shall not be left unattended. In either case precautions shall be taken to ensure that the required pressure is not exceeded.

Pressure gauges should be recalibrated before the tests.

The Sub-contractor shall be deemed to have included in his price for all test pumps, and other equipment required under this specification.

The test pressure shall be one and a half times the maximum working pressure except where a pipe is manufactured from a material for which the relevant B.S. specification designates a maximum test pressure.

3.5: STERILISATION OF COLD-WATER SYSTEM

All water distribution system shall be thoroughly sterilized and flushed out after the completion of all tests and before being fully commissioned for handover.

The sterilization procedures shall be carried out by the Sub-contractor in accordance with the requirements of B.S. Code of Practice 301, Clause 409 and to the approval of the Engineer.

PART D

PARTICULAR SPECIFICATIONS FOR PORTABLE FIRE EXTINGUISHER AND HOSE REEL INSTALLATIONS

6.1 GENERAL

The particular specification details the requirements for the supply and installation and commissioning of the Portable Fire Extinguishers and Boosted Hose Reel System. The Sub-contractor shall include for all appurtenances and appliances not necessarily called for in this specification or shown on the contract drawings but which are necessary for the completion and satisfactory functioning of the works.

If in the opinion of the Sub-contractor there is a difference between the requirements of the Specifications and the Contract Drawings, he shall clarify these differences with the Engineer before tendering.

6.2 <u>SCOPE OF WORKS</u>

The Sub-contractor shall supply, deliver, erect, test and commission all the portable fire extinguishers and Hose Reel which are called for in these Specifications and as shown on the Contract Drawings.

6.3 WATER/CO2 EXTINGUISHERS

These shall be 9-litre water filled CO2 cartridge operated portable fire extinguishers and shall comply with B.S.

1382: 1948 and to the requirements of B.S.4523: 1977. Unless manufactured with stainless steel, bodies shall

have all internal surfaces completely coated with either a lead tin, lead alloy or zinc applied by hot dipping.

There shall be no visibly uncoated areas.

The extinguishers shall be clearly marked with the following:

- a) Method of operation.
- b) The words 'WATER TYPE' (GAS PRESSURE) in prominent letters.
- c) Name and address of the manufacturer or responsible vendor.
- d) The nominal charge of the liquid in imperial gallons and litres.
- e) The liquid level to which the extinguisher is to be charged.
- f) The year of manufacture.
- g) A declaration to the effect that the extinguisher has been tested to a pressure of 24.1 bar (350 psi.).
- h) The number of British Standard 'B.S' 1382 or B.S. 5423: 1977.

6.4 PORTABLE CARBON DIOXIDE FIRE EXTINGUISHERS

These shall be portable carbon dioxide fire extinguishers and shall comply with B.S. 3326: 1960 and B.S. 5423: 1977.

The body of extinguisher shall be a seamless steel cylinder manufactured to one of the following British Standards; B.S. 401 or B.S. 1288.

The filling ratio shall comply with B.S. 5355 with valves fittings for compressed gas cylinders to B.S.341. Where a hose is fitted it shall be flexible and have a minimum working pressure of 206.85 bar (3000 p.s.i.). The hose is not to be under internal pressure until the extinguisher is operated.

The nozzle shall be manufactured of brass gunmetal, aluminium or stainless steel and may be fitted with a suitable valve for temporarily stopping the discharge if such means are not incorporated in the operating head.

The discharge horn shall be designed and constructed so as to direct the discharge and limit the entrainment of air. It shall be constructed of electrically non-conductive material.

The following markings shall be applied to the extinguishers: -

- a) The words "Carbon Dioxide Fire Extinguisher" and to include the appropriate nominal gas content.
- b) Method of operation.
- c) The words "Re-charge immediately after use".
- d) Instructions for periodic checking.
- e) The number of the British Standard B.S. 3326: 1960 or B.S. 5423.
- f) The manufacturers name or identification markings

DRY CHEMICAL POWDER PORTABLE FIRE EXTINGUISHER

The portable dry powder fire extinguishers shall comply with BS3465: 1962 and BS 5423. The body shall be constructed to steel not less than the requirements of BS 1449 or aluminium to BS 1470: 1972 and shall be suitably protected against corrosion.

The dry powder charge shall be not-toxic and retain its free-flowing properties under normal storage conditions. Any pressurizing agent used as an expellant shall be in dry state; in particular, compressed air.

The discharge tube and gas tube if either is fitted shall be made of steel, brass, copper or other not less suitable material. Where a hose is provided it shall not exceed 1,060mm and shall be acid and alkali resistant. Provision shall be made for securing the nozzle when not in use.

The extinguisher shall be clearly marked with the following information

- a) The word "Dry Powder Fire Extinguisher"
- b) Method of operation in prominent letters.
- c) The working pressure and the weight of the powder charge in Kilogramme.
- d) Manufacturers name or identification mark
- e) The words "RECHARGE AFTER USE" if rechargeable type.
- f) Instructions to regularly check the weight of the pressure container (gas Cartridge) or inspect the pressure indicator on stored pressure types when fitted, and remedy any loss indicated by either.
- g) The year of manufacture.
- h) The Pressure to which the extinguisher was tested.
- i) The number of this British Standard BS 3465 or BS 5423: 1977.
- j) When appropriate complete instructions for charging the extinguisher shall be clearly marked on the extinguisher or otherwise be supplied with the refill.

6.6 AIR FOAM FIRE EXTINGUISHER

These shall be of 9 litres capacity complete with refills cartridges and wall fixing brackets and complying with B.S. 5423 with the following specifications: -

- Cylinder: to B.S. 1449
- Necking: to be 76mm outside diameter steel EN 3A 2³/₄ X 8TPI female thread.
- Head cap: to be plastic molding acetyl resin.
- **CO**₂ **Cylinder:** to be 75gm P.V.C coated.

Internal Finish: to be polythene lining on phosphate coating.

External finish:to be phosphated - One coat primer paint and one coat stove enamel B.S. 381 C.

6.7 FIRE BLANKET

The fire blanket shall be made from cloth woven with pre-asbestos yarn or any other fire proof material and to measure 1800 x 1210 mm and shall be fitted with special tapes folded so as to offer instantaneous single action to release blanket from storing jacket.

6.8 <u>BOOSTED HOSE REEL SYSTEM</u>

6.8.1 General

The Particular Specification details the requirements for the supply, installation and commissioning of the hose reel installation. The hose reel installation shall comply in all respects to the requirements set out in C.O.P 5306 Part 1: 1976, B.S 5041 and B.S 5274. The System shall comprise of a pumped system.

6.8.2 Hose Reel Pumps

The fire hose reel pumps shall consist of a duplicate set of multi-line centrifugal pumps from approved manufacturers. The pumps shall be capable of delivering 0.76 lit/sec at a running pressure of 2.5 bars.

The pump casing shall be of cast iron construction with the impeller shaft of stainless steel with mechanical seal.

6.8.3 Control Panel

The control panel shall be constructed of mild steel 1.0mm thick sheet, be moisture, insect and rodent proof and shall be provided complete with circuit breakers and a wiring diagram enclosed in plastic laminate. The pump shall be controlled by a flow switch therefore; the control panel shall include the following facilities:

- 'On' push button for setting the control panel to live.
- Green indicator light for indicating control panel live.
- Duty / Stand-by pump auto change over.
- Duty pump run green indicator light.
- Stand-by pump run green indicator light.
- Duty pump fail red indicator light.
- Stand-by pump fail red indicator light.
- Low water condition pump cut-out with red indicator light.

The pumps are to be protected by a low-level cut-out switch to prevent dry pump run when low level water conditions occur in the water storage tank.

6.8.4 Hose Reel

The hose reel to the installation shall consist of a recessed, swing-type hose reel as Angus Fire Armour Model III or from other approved manufacturers.

The hose reel shall comply with B.S. 5274: 1975 and B.S 3161: 1970 and is to be installed to the requirements of C.P. 5306 Part 1: 1976.

The hose reel shall be supplied and installed complete with a first-aid non-kinking hose 30 meters long with a nylon spray / jet / shut-off nozzle fitted. A screw down chrome - plated globe valve to B.S 1010 to the inlet to the reel is to be supplied.

The orifice to the nozzle is to be not less than 4.8mm to maintain a minimum flow of **0.4** lit / sec to jet. The hose reels shall be installed complete with electro-galvanized cabinet recessed on the wall.

The hose reels shall be installed at 1.5 meters center above the finished floor level in locations shown in the contract drawings.

6.8.5 <u>Pipe Work</u>

The pipe work for the hose reel installation shall be galvanized wrought steel tubing heavy grade Class C to B.S 1387: 1967 with pipe threads to B.S 21. The pipe work and all associated fittings shall be in approved color for fire fittings.

Pipe Fittings

The pipe fittings shall be wrought steel pipe fittings, welded or seamless fittings conforming to B.S. 1740 or malleable iron fittings to B.S 143.

All changes in direction will be with standard bends or long radius fittings. No elbows will be provided.

6.8.6 <u>Non-return Valves</u>

The non-return valves up to and including 80mm diameter shall be to B.S. 5153: 1974.

The valves shall be of cast iron construction with gunmetal seat and bronze hinge pin.

6.8.7 Gate Valves

The gate valves up to and including 80mm diameter shall be non-rising stem and wedge disc to B.S 5154: 1974 with screwed threads to B.S. 21 tapes thread

6.8.8 <u>Sleeves</u>

Where pipe work passes through walls, floors or ceilings, a sleeve shall be provided one diameter larger than the diameter of the pipe, the space between them to be packed with mineral wool, to the Engineer's approval.

6.8.9 Earthing

The hose reel installation shall be electrically earthed by a direct earth connection. The installation of the earthing shall be carried out by the Electrical Sub- contractor.

6.8.10 Finish Painting

Upon completion of testing and commissioning the hose reel installation, the pipework shall be primed and finish painted with 2 No. coats of paints to the Engineer's requirements.

6.8.11 <u>Testing and Commissioning</u>

The hose reel installation shall be flushed out before testing to ensure that no builder's debris has entered the system. The installation is to be then tested to one and half times the working pressure of the installation to the approval of the Engineer. Simulated fault conditions of the pumping equipment are to be carried out before acceptance of the System by the Engineer.

6.8.12 Instruction Period

The Sub-contractor shall allow in his contract sum for instructing of the use of the equipment to the Client's maintenance staff. The period of instruction may be within the contract period but may also be required after the contract period has expired.

The period of time required shall be stipulated by the Client but will not exceed two days in which time the Client's staff shall be instructed on the operation and maintenance of the equipment.

6.8.13 Signage-Fire Instruction / Fire Exit

6.8.13.1 Fire Instruction Notice

Print fire instruction on the Perspex plates with White Colour

Background measuring 510mm length x 380mm width x 4mm thick as follows;

FIRE INSTRUCTION NOTICE

In the event of fire;

- 1. Raise the alarm by actuating the nearest alarm system point, Sound Siren /gong or Shout Fire
- 2. Attack fire using the nearest available equipment
- 3. Call nearest fire Brigade or Police 999 and inform your switchboard (PABX) Operator
- 4. Ensure that all personnel not involved in fire fighting evacuation to safety outside the building.
- 5. Close but **DO NOT LOCK** doors behind as you leave.
- 6. Evacuate the building using stairs or fire escapes. Do not use Lifts/escalators. Walk calmly. Avoid panic. Do not stop or return for personal belongings.
- 7. Assemble as per floor outside the building for roll call.

6.8.13.2 Fire Exit Sign

Print Fire Exit signs on the Perspex plate, 4mm thick, with white colour background as follows: - 1. Lettering **IN RED COLOUR** of not less than 50mm in height.

2. A pendant sign bearing words, **FIRE EXIT** and with a directional arrow.

The sign must be capable of being read from both approaches to exit and so is double sided.

6.8.13.3 Hose Reel Label

Print Fire Exit signs on the Perspex plate, 4mm thick, with white colour background as follows: -

1. Lettering **IN RED COLOUR** of not less than 50mm in height.

2. A pendant sign bearing words, HOSE REEL and with a directional arrow.

The sign must be capable of being read from both approaches to exit and so is double sided.

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:

SECTION VI - BILLS OF QUANTITIES

A. Notes and Sample Items for Preparing a Bill of Quantities

- 1. These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Tender Documents. Priced Bills of Quantities shall be part and parcel of the Contract Documents.
- 2 The objectives and purpose of the Bills of Quantities are to provide sufficient information on the specifications, descriptions and quantities of Works to be performed to enable tenders to be prepared efficiently and accurately and 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 insufficient 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 content of the Bill of Quantities should be as simple and clear as possible.

3. NOTES TO PREPARING PREAMBLES

- 4.1 The Preambles should include only those items that constitute the cost of the works but would not be priced separately as they are expected to be included in the unit prices. Care should be taken to ensure that these items are not are petition of the conditions of contract. The Preambles should indicate the inclusiveness of the unit prices and should state the methods of measurement that have been adopted in the preparation of the Bill of Quantities, that are to be used for the measurement of any part of the Works. The units of measurement and abbreviations should be defined and any mandatory national units defined and described. The methods of and procedure for re- measurement should be described in the Preambles.
- 44. The rates and prices tender in the priced Bills of Quantities shall, except in so far as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
- 45. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
- 46. The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bills of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
- 4.7. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bills of Quantities. References to the relevant sections of the Contract documents shall be made before entering prices against each item in the priced Bills of Quantities.
- 49 Provisional Sums and contingency sums included and so designated in the Bills of Quantities shall be expended in whole or in part at the direction and discretion of the Architect in accordance with Sub-Clause13.5 and Clause 13.6 of the General Conditions of contract.
- 4.10 In preparing the Bills of Quantities, notes should be removed as they are intended to guide the person preparing the Tender Documents. The Contractor must allow in his rates for any costs associated with and complying with the requirements in the Preambles.
- 4.11 Should a tenderer/contractor not price any item in any section of the Bills of Quantities including Preliminary items, it will be assumed that he/she has spread its cost in other areas that he/she will have priced. Therefore, the item or items will be executed without any additional costs or without being treated like variations.

4. NOTES ON PREPARING BILLS OF QUANTITIES

- 5.1 The <u>Preliminary Items</u> should be limited to tangible items that should be priced by the tenderer, are identifiable and can be priced separately and included in the interim valuations precisely. Such items may include such items as site office, notice boards, and other temporary works, otherwise items such as security for the Works which are primarily part of the Contractor's obligations should be included in the Contractor's rates.
- 52 The work items in the Bills of Quantities should be grouped into sections to distinguish between those parts of the Works which by nature, location, access, timing, or any other special characteristics may give rise to different methods of construction, or phasing of the Works, or considerations of cost. Such groups could be ground excavations, structures, external works, services, etc. General items common to all parts of the Works may be grouped as a separate section in the Bill of Quantities.

- 53 Quantities should be computed net from the Drawings, unless directed otherwise in the Contract, and no allowance should be made for bulking, shrinkage or waste. Quantities should be rounded up where appropriate.
- 5.4 Where the measured items a redeemed not to be exact because of the likelihood that the scope can change during the execution of the works, such items could be subject to re-measurement, the word **"provisional"** should be used to identify such cases. Where whole sections of the work items fall in this class, for example foundations, they should be labelled "Provisional Quantities" or "Provisional Items" so that the Tenderer/Contractor is advised up front that such items are subject to re-measurement to done before such work is cover-up.
- 55 All items that have not been measured and therefore not subject to tenders pricing should be listed in the Bills of Quantities as **Provisional Sums** for particular item or class of Work, which may be subject to a nominated subcontract or separate measurements at a later date during the execution of the works. For example, if it is deemed not possible to measure electrical works before going to tender because detail designs are not ready, a provisional sum can be allowed in the Bills of Quantities for "Installation of Electrical Works" to be executed later when actual design details are completed. To the extent not covered above, there should be in the Bills of Quantities a general provision for physical and financial contingencies made as a "Provisional Sum for Contingencies" and "Provisional Sum for Fluctuations".

PREAMBLES

- 1. The method of measurement of completed work for payment shall be in accordance with *The Standard* Method of Measurements for Building Works and Associated Civil Works for Eastern Africa (2nd edition) of 2008 prepared by The Architectural Association of Kenya (Quantity Surveyors Chapter)
- 2. The Site is situated in <u>MUTOMO KITUI COUNTY</u>. It is approximately <u>200</u> Kilometers from Nairobi. Access to the site shall be through. Which is an existing public road Any damage caused to the surfaces of this road shall be made good at the Contractor's expense. The Contractor shall visit the site and acquaint itself with its nature and position, the nature of the ground, substrata and other local conditions, positions of existing power, water and other services, access roads or any other limitations that might affect his cost or progress. No claim for extras shall be considered on account of lack of knowledge in this respect.
- 3. The Contractor shall obtain the Architect's approval on the siting of all temporary buildings, spoil heaps, temporary access path, and storage of materials. The Contractor shall also obtain the Architect approval and direction regarding the use of any materials found on the Site.
- 4. The drawings used in the preparation of these Bills of Quantities can be inspected at the offices of the Procuring Entity or Procuring Entity's Representative during normal working hours. Two sets of the Working Drawings shall be provided to the contractor but additional copies shall be provided at a cost to be determined by the Engineer.
- 5. The Contractor shall allow for the payment of all bank charges in connection with the procurement of Bank Guarantees and stamp charges in connection with this contract Agreement.
- 6. The Contractor shall carry out the various sections of the Works in such an order as the Architect May direct. The Procuring Entity reserves the right to occupy the Works by sections on completion provided that such occupation is considered to be both practical and reasonable and will not interfere with the Works. The Contractor shall allow any costs associated with such occupation.
- 7. The main Contractor will be fully responsible for paying his Sub-Contractor but the Procuring Entity reserves the right in very exceptional circumstances to make such payments direct in the interests of the project where the completion thereof might be jeopardized by any dispute or vicariousness between the Contractor and the Sub-Contractor involve.
- 8. The Contractor shall complete and deliver the Works in the period inserted in the Form of Tender as his time for completion of the Works from the date for Possession, to be agreed with the Engineer. The Contract Period is presumed to have been calculated making due allowance for seasonal inclement weather conditions. No claim for extension of time due to the normal inclement weather for this area shall be entertained.
- 9. The Contractor shall, upon receiving instructions to proceed with the Works, draw up a Programme and Progress Chart setting out the order in which the Works are to be carried out, with the appropriate dates thereof. This Chart shall be agreed with the Architect and no deviation from the order set out in it will be permitted without the written consent of the Engineer. The Contractor will be responsible for arranging the above programme with all his sub-Contractors and Specialties. The Contractor shall allow in his rates for carrying out this exercise, and for updating it as required.

- 10. The Contractor shall submit to the Architect on the first day of each week or such longer period as the Architect from time to time direct, a Progress Report and any information for the proceeding period, showing the progress during the period and the up-to-date cumulative progress on all important items of each section or portion of the Works.
- 11. The Contractor shall arrange for photographs of the Site to be taken by a professional photographer approved by the Engineer. The Photographs shall provide a record of the Site and adjacent are as prior to the commencement of the Works and shall cover such portion of the works in progress and completion as the Architect shall direct. All prints shall be full plate size, unmounted, and marked on the reverse side with the date of exposure, identification reference and brief description. The copyright of all photographs shall be vested in the Procuring Entity. The negatives and four prints from each negative shall be delivered to the Architect within two weeks of exposure.
- 12. Figured dimensions are to be followed in preference to dimensions scaled from the Drawings, but whenever possible dimensions are to be taken on the Site or from the buildings. Before any work is commenced by Sub- Contractors or Specialist Firms, dimensions must be checked on the site comparable dimensions shown on the drawings. The Contractor shall be responsible for the accuracy of such dimensions.
- 13. Prior to commencement of any work the Contractor is to ascertain from the relevant Authorities the exact position, depth and level of all existing electric cables, water pipes or other services in the area and he shall make whatever provisions may be required by the Authorities concerned for the support and protection of such services. Any damage or disturbance caused to any services shall be reported immediately to the Architect and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense. Where appropriate the Contractor shall open up the ground in advance of the main work by hand digging, if necessary, to locate precisely the position and details of the services which are likely to affect his operations.
- 14. The Contractor shall include in his prices for the transport of materials, workmen, etc./, to and from the site of the proposed works, at such hours and by such route as are permitted by the Authorities.
- 15. The Contractor will be required to make good, at his own expense and damage he may cause to the present road surface and pavements within or beyond the boundary of the Site, during the period of the works. All existing paths, storm water channels, etc., that may be destroyed or damaged during the progress of the Works shall be reinstated by the Contractor to the satisfaction of the Engineer.
- 16. The Contractor is to allow for complying with all instructions and regulations of the Police Authorities.
- 17. All water shall be fresh, clean and pure, free from earthly, vegetable or organic matter, acid or alkaline substance in solution. The Contractor shall provide at his own risk and cost all water for use in connection with the Works, (including works of sub–contractors). If need be, he shall make arrangements with the Local Water Authority for the installation of a separate meter for all water used by him throughout the Contract and pay all cost and fees in connection therewith. He shall also provide temporary storage tanks and tubing, etc., as may be necessary, and clear away at completion.
- 18. The Contractor shall provide all artificial lighting and power for his own use on the Works, (including Sub Contractor's) including all temporary connections, wiring, fittings, etc., and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection there with.
- 19. 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 time to the superintendence of the works. (Including works of sub contractors). Such Agent or Representative shall receive on behalf of the Contractor directions and instruction from the Engineer, and such directions and instructions shall be deemed to be given to the contractor in accordance with the Conditions of Contract. The Agent shall not be replaced without the specific approval of the Engineer.
- 20. The Contractor shall ensure that the safety of his work people and all authorized visitors to the site are protected at all times. In particular, there shall be the proper provision of guard-rails to scaffolding, protection against falling materials, tools on site, dust, nail and other sharp objects. The site shall be kept tidy and clear of dangerous rubbish. The Architect shall be empowered to suspend work on site should it be considered this condition is not being observed and no claim arising from such suspension will be allowed.

- 21. They are as available to the Contractor for work yards, offices and other facilities shall be directed by the Architect and any existing features to remain shall be protected from damage throughout the Contract Period and handed back in good condition when they are vacated at the end of the Contract. If additional areas are required, the contractor shall source then at own cost.
- 22. The Contractor shall give the Architect reasonable notice of the intention to set out or take levels for any part of the Works so that arrangements may be made for checking the work. The accuracy of setting out and leveling shall be within the tolerances specified in the Specifications or on the Drawings. The checking of setting out or leveling by the Architect shall not relieve the Contractor of his duties or responsibilities under the Contract.
- 23. The Contractor must take steps necessary to safe guard and shall beheld fully responsible for any damage caused to existing and adjacent property, including buildings that are not a subject of demolition. He shall make good at his own cost damage to persons and property caused there on, and he shall indemnify the Procuring Entity against any loss or claim that may arise.
- 24. The Contractor shall take such steps and exercise such care and diligence as to minimize nuisance arising from dust, noise or any other cause to the occupiers of the existing and adjacent property. He must provide such temporary and special screens and tarpaulins or gummy bags, hoarding, barriers, warning signs etc. as he considers necessary and sufficient for the protection of the existing and adjacent property and or prevention of nuisance etc. as directed by Engineer.
- 25. The Contractors attention is drawn to the standards levy order which was amended on 15thOctober 1998.Legal notice No.154 of 1998. The Contractor is required to pay a monthly level of 0.2% of his factory price of construction works with effect from January 1999. Tenderer shall allow for this in the build-up his rates.
- 26. The Contractor shall provide temporary sheds, offices mess rooms, sanitary, accommodation and other temporary buildings for the use of the contractor and sub-contractors, including lighting furniture equipment and attendance.
- 27. Contractor shall provide/build labor camp sat areas to be agreed with the Engineer. Labor camps shall be complete with sanitary accommodation and fencing gates.
- 28. The Contractor must provide the necessary toilet facilities to the requirement and satisfaction of the Health Authorities and maintain the same in a thoroughly clean and sanitary condition and pay all conservancy fees during the period of the Works and remove when no longer required.
- 29. The Contractor shall provide at his own risk and cost all watching and lighting as necessary to safeguard the Works, Plant and materials against damage and theft.
- 30. The Contractor shall provide all necessary hoists, tackle, plant, equipment, vehicles, tools and appliances of every description for the due and satisfactory completion of the Works and shall remove the same on completion. All such plant, tools and equipment shall comply with all regulations in force throughout the period of the Contract and shall be altered or adopted during the Contract period as may be necessary to comply with any amendments in or additions to such regulations.
- 31. Provide, erect and maintain all necessary scaffolding, sufficiently strong and efficient for the due performance of the works, including Sub-Contract Works, provide special scaffolding as required by Sub-Contractors, alter and adopt all scaffolding as and when required during the Works, and remove on completion. No scaffolding is measured here in after and the Contractor must allow in his rates for this.
- 32. The Contractor shall take all necessary precautions such as temporary fencing, hoarding fans, planked footways, guard-rails gantries screen, etc., for the safe custody of the Works, materials and public protection and adjacent properties.
- 33. Cover up all and protect from damage, including damage from inclement weather, all finished work and unfixed materials, including that of Sub-Contractors, etc., to the satisfaction of the Architect until the completion of the Contract.
- 34. The Contractor shall, after completion of the works, at his own expense, remove and clear away all surplus excavated demolition materials, plant, rubbish and unused materials and shall leave the whole of the Site and Works in a clean and tidy state to the satisfaction of the Engineer, sheds, camps, etc. Particular care shall be taken to leave clean all floors and windows and tore move all paint and cement all rubbish and dirt as it accumulates. The Contractor is to find his own dump and shall pay all charges in connection there with.

- 35. Concrete test cubes shall be prepared in a set of three, as described including testing fees, labor and materials, making molds, transport, handling, etc. Allow in your rates for making at least four cubes on each occasion, from different batches; the concrete being taken from the point of deposit.
- 36. The Contractors shall furnish at the earliest possible opportunity before work commences, and at his own cost, any samples of materials and workmanship that may be called for by the Architect for the approval or rejection, and any further samples in the case of rejection, until such samples are approved by the Engineer. Such samples, when approved, shall be the minimum standard for the work to which they apply. The procedure for submitting samples of materials for testing or approval and the method of marking for identification shall be as laid down by the Engineer. The Contractor shall allow in his Tender for such samples and tests, including those in connection with his Sub-Contractors work.
- 37. The Contractors attention is drawn to the Finance Bill of the year 2000/2001 on withholding tax on contractual payment section 35(7)(i)(ii) which became effective on 1st July 2000. A 3% withholding tax will be applicable to all interim payments exceeding Kshs..... for work done in respect of building or civil works. The contractor shall allow for any costs arising resulting there from in the build-up of rates.
- 38. Blasting will only be allowed with the express permission of the Architect 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 Architect governing the use and storage of explosives.
- 39. The National Construction Authority is a state corporation established under the national construction authority Act No.14 of 2011. The broad Mandate of the Authority is to oversee the construction industry and coordinate its development. The National Construction Authority Regulations 2014 with an effective date of 6thJune 2014, regulation 25, Allow 0.5% of the tender sum/contract sum for construction levy.
- 40. The Contractor attention is drawn to Finance Bill of 1993 where VAT was introduced in all contracts for construction services. The tenderer is also drawn to VAT Act Cap 476 clause 19(9). The tenderer must allow for VAT1.19 as instructed elsewhere.
- 41. The contractor shall allow and pay for all insurance to cover risks and indemnities required Items 17 and 18 of the Conditions of contract and also specified in the Special Conditions of Contract.

BILL NO. 1 - PRELIMINARY ITEMS

ITEM No.	DESCRIPTION	AMOUNT
1.	The Contractor shall provide, or erect and maintain an approved lock-up office for the sole use of the Architect and his own site staff. The office, which will have a total floor area of not less thansquare metres, will be divided into two separate interconnected offices. Services to be provided shall include a telephone, water sanitary and electrical supply and drainage. The offices shall be supplied with furniture and equipment that shall include:	N/A
	4 No. desks with chairs; 1 No. large table with sufficient number of chairs; drawing table along the full length of one side with plan drawers and drawing stools: 4 No. waste paper baskets: sufficient number of pin boards: and any additional furniture and fittings as may reasonably be required during the Contract period. The Contractor shall provide the Architect and site staff with computer sets or laptops, printers and telephones all that are necessary for project use.	
	The office furniture and equipment shall all be to the approval of the Engineer. The Contractor shall also provide all labor, equipment and consumable stores equipment throughout the currency of the contract.	
2	[OPTIONAL] Contractor shall provide a house for Engineers site agent, which shall be one bedroomed temporary house with a sitting room, toilet, bathroom and a kitchen complete with electrical and sanitary installations and provide maintenance and paying of bills of water and electricity up to and including end of the contract period.	N/A
3	Provide a signboard not less thansquare meters in size of a design type, and with lettering and coloring and in a position approved by the Engineer. The signboard shall be for the display of the Main Contractor's name and the names of all his Sub-Contractors, with the Procuring Entity's name painted thereon. All Consultants names be printed in letters not exceeding 50 mm high. No other signboard or advertising shall be allowed. The signboard shall be fully maintained during the Contract Period and shall be pulled down and removed at the end of the contract.	N/A
	TOTAL C/D TO PAGE	

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
4	Allow for preparation of working drawings before commencement of works, shop Drawing & as-built drawings (2No. A3 Format & 1No. Soft Copy in CD) for each works and maintenance manuals. All these will be handed to project Engineer in three hard copies and soft copy in 8Gb flash disk and compact disk.	1	Item		
6	Hand over				
7	Variation				
8	Testing and Inspection – manufactured plant				
10	Mobilization and Demobilization.				
11	Allow for provisional sum of Kenya Shillings Two Hundred Thousand (Kshs 200,000.00) for project supervision.	1	Item		
12	Allow for 10% profit and Attendance for the above	1	Item		
13 14	 Supervision by Engineer and Site Meetings. Allow for 10% profit and Attendance for the above Any other preliminaries; 1. All Project stationery to be delivered before commencement of works as instructed by the Chief Engineer [Mechanical-(BS)] once the contract has been signed. 	1	Item Item		
	Subtotal Sub-total brought forward from page		E-6		

tem	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<u>1. BILL No. 1. SANITARY APPLIANCES</u> Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors. Note:				
	(i) All sanitary fittings shall be in approved colour.				
А	 (ii) The Model and Ref No. indicated is only a guide to the type and quality of fittings. (iii) Equivalent & Approved models may be acceptable. Close-coupled WC suite with 'P'-trap in approved colour complete with horizontal outlet to BS 3402 with 6/4.5 litre valveless ceramic cistern and fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chromeplated flush button and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. All to be as Duravit D-Code (Horizontal outlet) or equivalent 	12	No.		
В	Wash hand basin- Countertop Wash hand basin size 550 x450mm with a single centre tap hole and chain stay hole, chrome plated overflow, chrome plated non-conculsive time delay press action pillar tap, 32mm diameter chrome plated pop up chain waste and heavy duty plastic bottle trap (32mm 'P' trap) with 75mm seal. Basin to be as Duravit D-Code or approved equivalent.	19	No.		
С	Toilet Roll Holder Fully recessed toilet roll holder in Vitreous China of size 165 x 165mm in approved colour as Twyfords VC 9806 WH or equal and approved.	19	No.		
D	Robe Hook - in Satin Aluminium to be mounted by concealed screws to wall wedges. To be as Twyfords Spectrum 2000 accessories or equal and approved.	19	No.		
E	Soap Dispens er-Stainless steel bright finish soap dispenser. Top filling lid and press button dispenser Prefered dimension 220mm x 435mm x 120mm. Dispenser to be as "Mediclinics AC0957C" or approved equivalent	12	No		
F	Cleaners Sink Heavy duty sink size 465 x 410 x 285mm deep in enamelled fireclay complete with hardwood pad on the front edge and fitted bucket stainless steel grating and 20mm chrome plated wall mounted inclined bricon tap, chrome plate chain and rubber stopper and heavy gauge 40mmn chrome plated bottle trap, stainless steel legs and bearers and 32mm grid waste fitting. All as Twyford "cleaners sink" or approved equivalent.	5	No.		

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
А	Mirror 6mm thick polished plate glass silver backed mirror with beveled edges, size 610 x 610mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	13	No.		
В	Full length Mirror 6mm thick polished plate glass silver backed mirror with beveled edges, size 800 x 1800mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	2	No.		
С	Toilet Brush and Holder Toilet brush and holder in vitreous china as Twyfords or equal and aproved equivalent.	19	No.		
D	Hand drier Automatic Hand Drier in white colour, operating on an infra-red automatic sensing system with safety cut-out complete with plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 1.8 kw and to be of size 270 x 64 x 143mm deep as HEATRAE SADIA "Handi Dri" or approved	11	No.		
Е	equivalent. Urinals bowl and Flush Valve				
	Ceramic urinal bowl complete with 40mm heavy duty plastic bottle trap and 40mm diameter chrome plated outlet with grating firmly fixed on the wall with chrome plated screws. The flushing system is manual actuated concealed Flush Valve in brass material complete with manual override and stainless steel Flush plate with inbuilt antitheft feature. The urinal fittings shall be as 'Ideal Standard' or equal and approved and flushing system as to be as Tapis or approved equivalent.	6	No		
	Urinal Bowl Divisions Ceramic urinal bowl divisions separating the above described urinal bowls fixed firmly on the wall. The fittings shall be as 'Ideal Standard' or equal and approved.	6	No		
G	<u>Undersink Water Heater</u> 7 Litres Instanteneous Undersink Heater. The Heater to be suitable for under the counter installations and to serve both the hand basin and the shower. Heater to be as "Heatrae Sadia Streamline" or approved equivalent.	3	No.		
F	Kitchen sink Double Bowl Double Drainer sink size 1800x600mm with bowl size 420x355x150mm deep made out of 18/8 stainless steel complete with: 2No. mixers with overarm swivel outlet, 2No. sink wastes with 70mm diameter flanges 45mm shanks with brackets, plugs and chains including 2No. P-traps. Sink shall be as "Dali stainless steel sink" or approved equal	3	No.		

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
А	Disabled Persons Water Closet and Wash Hand Basin Facility Wheel chair accessible W.C facility Comprising of the following: i) Close coupled W.C with 7.5 litre cistern with bottom inlet and overflow.The bowl shall be of size 375x560x420mm high.The bowl and cistern shall be manufactured from vitreous china complying with B.S 3402 .The unit shall be complete with valveless cistern fittings including syphon, 1 /2" side inlet ballvalve, 3 /4" side overflow, plastics flushbend, inlet connector and reversible metallic chrome plated cistern lever.There shall also be a heavy duty seat(25mmhigh) and cover with chrome plated metal hinges, toilet roll holder, 610 x 610 x 6mm thick mirror and robe hook.				
	ii) Semi pedestal wall mounted W.H.B of size 600x500x545mm high with flexible connectors to waste and taps.The basin shall be manufactured from vitreous china complying with B.S 3402.It shall have one L/H tap hole with 1/2" chrome plated lever action pillar tap, chrome plated waste with height adjustable trap, pedestal and wall fixing bolts.	4	Item		
В	 iii) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminium and mounted on a wall fixing plate plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyfords DOC.M wheelchair accessible W.C. facility or approved equivalent. Toilet Paper Dispenser 				
D	Jumbo toilet paper dispensor as Velvex or approved equivalent	8	No		
С	Flush valves Chrome plated flush valve for the Water closet of size 32mm diameter(as Khengar)	3	No		
D	Squatting Water closet bowl (Ablution Block) Squatting WC Pan size 508x406mm manufactured from ceramic complete with 20 mm turn up and flange all round, a flush bowl pressed into one piece with the raised treaded pattern foot plates on both sides and in front of the flush bowl, a rear entry 32mm spreader pipe, 100mm Waste outlet for fitting to a standard 100mm PVC Waste Connector. To be as Twyford or Approved Equivalent.	3	No.		
Е	Urinal Slab Enameled Stainless Steel urinal slab with partitions, 2400mm in length, 14 litre concealed cistern with automatic flushing fittings, 15mm diameter 'pegler' bib tap with star handles, concealed chrome plated flush pipes with concealed horizontal sparge pipes, 50mm dia. chrome plated hinged outlet with grating, cast iron shallow p-trap, 330mm raised fireclay tile floor treads. The unit shall be 2400 x1050mm high with a channel as Ideal Standard or equal and approved	1	No.		

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Bill No. 2. INTERNAL PLUMBING Supply, deliver and install chlorinated polyvinyl chloride (CPVC) pipes, tubing and fittings as described and shown on the drawings. The pipes shall be produced as per SDR 11 and shall meet or exceed the requirements as of ASTM D 2846, current European standards for CPVC installations and to the Engineers approval. All joints shall be assembled employing solvent cements that meet or exceed the requirements of ASTM F442 and ASTM F441. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures.				
	CPVC Pipework				
А	20mm diameter pipework	42	Lm		
В	25mm diameter pipework	135	Lm		
С	32mm diameter pipework	158	Lm		
D	40mm diameter pipework	52	Lm		
Е	50mm diameter pipework	48	Lm		
Е	63mm diameter pipework	48	Lm		
	Bends				
F	20mm diameter bend	64	No.		
G	25mm diameter bend	40	No.		
Н	32mm diameter bend	28	No.		
Ι	40mm diameter bend	18	No.		
J	50mm diameter bend	16	No.		
J	63mm diameter bend	16	No.		
	Total for Plumbing carried forward to Summary page E-21		<u> </u>	<u> </u>	

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Tees				
А	25mm equal tee	54	No.		
В	32mm equal tee	26	No.		
С	40mm equal tee	12	No.		
D	50mm equal tee	11	No.		
D	63mm equal tee	12	No.		
	Reducers				
Е	25 x 20mm diameter reducer	34	No.		
F	32 x 25mm diameter reducer	20	No.		
G	40 x 32mm diameter reducer	12	No.		
Н	50 x 25mm diameter reducer	6	No.		
Ι	50 x 32mm diameter reducer	14	No.		
J	50 x 40mm diameter reducer	6	No.		
	Valves				
Κ	20mm gate valve	16	No.		
L	25mm gate valve	20	No.		
М	32mm gate valve	12	No.		
Ν	40mm gate valve	6	No.		
Ο	50mm gate valve	7	No.		
Ο	63mm gate valve	4	No.		
	Unions				
Р	20mm diameter pipe unions	12	No.		
Q	25mm diameter pipe unions	21	No.		
R	32mm diameter pipe unions	18	No.		
S	40mm diameter pipe unions	4	No.		
Т	50mm diameter pipe unions	12	No.		
Т	63mm diameter pipe unions	12	No.		
	Adaptor / Brass Threaded				
U	25x20 mm brass threaded male adapter	18	No.		
V	25x32mm brass threaded male adapter	4	No.		
W	40x50mm brass threaded male adapter	8	No.		
	Total for Plumbing carried forward to Summary page E-21				

ltem	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Adaptor / Brass Female Threaded				
А	20mm brass threaded adapter	32	No.		
В	25mm brass threaded adapter	46	No.		
С	32mm brass threaded adapter	28	No.		
	40mm brass threaded adapter	14	No.		
E	50mm brass threaded adapter	18	No.		
1	Water Booster Pumpset	10	1 10.		
F	Electrically driven submersible pump capable of delivering 5 metres cubed per hour against a head of 25 meters with a power source. It includes variable frequency drive, pressure switches, time delay switch, a switch to protect against dry run, timer, gate valves and non-return valves. The pump to be as Wilo or approved equivalent. The pump to have Control panel with contactors, over voltage and under voltage protection relays, MCBs, timer, start/stop push buttons, internal buttons with automatic changeover, 'running' and 'trip' neon lights control system and button for for change from automatic to manual operation. All these shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated . There shall also be an adjustable time delay switch to ensure pumping cycles are controlled to not more than 6 per hour, cables, low level cut-out switch in low level tank and regulator. The pump should run for twelve hours per day	1	Set		
	* · ·				
G	Control and Control Panel Control panel for above pumps with contactors, over voltage and under voltage protection relays, MCBs, phase failure protection, timer, 180 meters long float switch control cable to the roof tanks, start/stop push buttons and indicator lights. All these shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated. There shall also be an adjustable time delay switch to ensure pumping cycles are controlled to not more than 6 per hour. It should include a change-over switch to enable the pumps to work alternately.	1	Item		
G	Excavations Excavate trench in soil/murram for water pipes not exceeding 1000mm deep and average 750mm deep, part return in, fill, ram and surplus cart away.	69	Lm		
Н	Flexible Tubing 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve. To be as Cobra or equal and approved.	35	No.		
	Angle Valves				
Ι	15mm diameter chrome plated angle valve as Jaguar Astra with wall flange or equivalent Stand Pipe	35	No		
J	15mm diameter bib tap suitable for connecting hose pipe complete with threaded adaptors. The tap to be complete with 1meter long 20mm diameter pipe, bends etc. The chrome plated bib tap to be as Cobra ref.107EC taps or equal and approved.	8	No		

Total for Plumbing carried forward to Summary page E-21	
Total for Plumbing carried forward to Summary page E-21	

ltem	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	WATER TANKS				
	Accessories for the 60,000 Litres Reinforced Concrete				
	Water Tanks done by others. The connections to the Tank				
	RC Walls shall be in Paddle Flanges				
А	40mm diameter overflow	1	No		
В	50mm diameter outlets	1	No		
С	32mm diameter inlet (1No)	1	No		
D	100mm diameter washout with gate valve	1	No		
Е	Float switch regulator	1	No		
F	Water level indicator	1	No		
G	Internal ladder	1	No		
Н	External ladder from tank platform	1	No		
Ι	25mm diameter high pressure ball valve	1	No		
	Bulk Water Meter				
J	50mm bulk water meter as 'Kent' or equal and approved				
	equivalent for the connection to the water main supply to site	1	No.		
	and include County Connection charges.				
	Electrical Works				
	Allow for electrical works wiring and fitting to the above pumps,				
Κ	control panel and float switches from isolator provided by	1	Item		
	others.				
	Roof Tanks for Main and Ablution Block				
	Supply, deliver and install vertical close end plastic moulded tank				
	of capacity 2300 litrres and diameter 1600 x 1170mm high. The				
	tank to be assembled complete with cover and having screwed				
L	connections for inlet, outlet, overflow, 25mm high pressure ball	8	No.		
	valve, drain pipes and any other necessary item for its proper				
	functioning. The tank shall be mounted on roof and shall be as				
	ROTO Model or approved equivalent.				
	Supply, deliver and install Rectangular Loft tank plastic moulded				
	tank of capacity 460 litres and Length 1470mm x Breadth				
	940mm x 420mm high. The tank to be assembled complete with				
	cover and having screwed connections for inlet, outlet, overflow,				
Μ	25mm high pressure ball valve, drain pipes and any other	1	No.		
	necessary item for its proper functioning. The tank shall be				
	mounted on roof and shall be as ROTO Model or approved				
	equivalent. (For Gate House)				
	Valve Chamber				
	Valve chamber size 600x450x600mm deep with 100mm				
	concrete (1: 3: 6) base 100mm block sides rendered all round in				
Ν	cement and sand (1:4) and with approved hinged and flanged	1	No		
1	cast iron cover and frame including all necessary excavation,	1	110		
	disposal and formwork.				
	Water Line Markers				
	Standard precast concrete ware line marker, post marked 'WL' set in concrete (1:3:6) base, including formwork, excavations				
Ο	backfilling and disposal. The plate to be painted with blue gloss	8	No		
	oil paint.				
	on paint.				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Bulk Water Meters				
А	Apply for and connect 32mm bulk water meter as 'Kent' or equal and approved equivalent for the connection to the main	1	No.		
Λ	supply of water to site and local council charges.		10.		
	Water Meter Chamber				
	Meter chamber size 600x450x600mm deep with 100mm				
D	concrete (1: 3: 6) base 50mm block sides rendered all round in	1	ЪT		
В	cement and sand (1:4) and with approved hinged and flanged cast iron cover and frame including all necessary excavation,	1	No		
	disposal and formwork.				
	Pipe Sleeves				
	65mm diameter heavy duty PVC (class 41, 2.5mm thick) pipe				
С	sleeves for crossing over pathways and driveways. The sleeves	12	Lm		
	will be encased in 150mm concrete sorround. Pipe Sleeves				
	50mm diameter heavy duty PVC pipe sleeves for crossing over				
D	slabs, columns and beams.	60	Lm		
	Connection to External Water Reticulation				
Е	Allow for connection of the water sytem to the water Reticulation line including the check water meter	Item	Sum		
	Sterilization				
F	Allow for flushing out and sterilizing the whole system with	Terre	Sum		
Г	chlorine to the satisfaction of the engineer	Item	Sum		
	Testing and commissioning				
G	Allow for testing and commissioning of the Internal plumbing installations	Item	Sum		
	installations		0		
	Total for Plumbing carried forward to Summary page E-21				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	3. BILL No. 3. FOUL WATER INTERNAL DRAINAGE			,	, , ,
	Supply and fix uPVC soil system to BS 4660 and BS 4515 and MuPVC waste systems to BS 5255 with screwed and socketed joints to BS 21. Solvent welded joints shall be as per the system's manufacturer's written instructions. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. for the proper and satisfactory functioning of the system.				
	MuPVC and uPVC Waste and Soil pipework				
А	150mm diameter heavy gauge golden brown UPVC pipe	48	Lm		
В	100mm diameter heavy gauge golden brown UPVC pipe	80	Lm		
С	100mm diameter heavy gauge grey mUPVC pipe	38	Lm		
D	50mm ditto	38	Lm		
Е	40mm ditto	22	Lm		
F	32mm ditto	29	Lm		
	Bends				
G	100mm diameter long radius bend	19	No.		
Н	100mm diameter sweep bend	19	No.		
Ι	40mm ditto	8	No.		
J	32mm ditto	31	No.		
	Tees				
Κ	100mm diameter sweep tee	12	No.		
L	50mm diameter sweep tee	8	No.		
Μ	40mm ditto	8	No.		
L	32mm ditto	24	No.		
Ν	Access Caps				
Ο	100mm diameter access cap	19	No.		
Р	40mm ditto	8	No.		
Q	32mm ditto	19	No.		
	Boss Connectors				
R	100 x 50mm diameter boss connector	4	No.		
	WC Connectors				
S	100mm diameter WC connector	19	No.		
	Double branches				
Т	100mm diameter double branch	6	No.		

Item	Description	Qty	Unit	Rate (Kshs)	Amount(Ksh)
	Reducers				
А	50 x 32mm diameter reducer	6	No.		
В	50 x 40mm diameter reducer	4	No.		
	Traps				
С	100 x 100mm diameter floor drain and grating	2	No.		
D	100 x 50mm diameter floor trap and grating	18	No.		
Е	Standard 300 x 300 x 450mm masonry gully trap complete with 125mm thick reinforced concrete cover.	6	No.		
	Inspection Chamber				
	Standard 600 x 450 x (600-750)mm inspection chamber				
F	complete with Cast Iron cover as made by East african Foundry or Equivalent.	14	No.		
	Weathering Slates and Vent Cowls				
G	100mm diameter weathering slate and apron.	5	No.		
Н	100mm diameter vent cowl	5	No.		
Ι	Excavate trench for 100mm pipe not exceeding 1500mm deep and average 250mm deep, part return in, fill & surplus cart away.	88	Lm		
	ROOF DRAINAGE				
	Supply and fix uPVC pipes to BS 4660 and BS 4515 and MuPVC pipes to BS 5255 with screwed and socketed joints to BS 21. Solvent welded joints shall be as per the system's				
J	manufacturer's written instructions. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged				
	and screwed for the proper and satisfactory functioning of the system. Rain water Down Pipes				
Κ	100mm diameter heavy gauge grey mUPVC downpipes	60	Lm		
L	50mm diameter heavy gauge grey mUPVC down pipes Bends	40	Lm		
М	100mm diameter 45 ⁰ bend	6	No.		
Ν	100mm diameter sweep bend	6	No.		
Ο	50mm diameter sweep bend	9	No.		
	Others				
Р	outlet adaptor	12	No		
Q	Rainwater shoe	6	No		
R	Downpipe outlet Guard	10	No		
S	100 x 50mm diameter boss connector	6	No.		
Т	100 x 100mm diameter floor drain and grating	6	No.		
U	Allow for testing & commissioning of drainage installations.	1	Item		
	Total for Internal Drainage and Rainwater Drainage carri page J-24	ed for	ward to	Summary	

				(Kshs)	(Kshs)
]	BILL No. 4. FIRE FIGHTING INSTALLATIONS				, , ,
	HOSEREEL AND PORTABLES				
5	Supply, deliver and install the following fire fighting equipment				
	in positions indicated on the contract drawings or as shall be				
	instructed by the Engineer.				
	Hose Reel				
5	Swinging type hosereel fitted with 30 Metres Long, 20mm				
	diameter reinforced non-kink rubber hose with 5/6 mm lever				
A	operated shut-off nozzle, mild steel feed pipe, isolation valve,	3	No.		
	guide and all other accessories as 'Angus Fire Armour' or equal				
2	and approved.				
J	Fire Hose Cabinet				
5	Surface mounted fire hose cabinet manufactured from electro				
Ę	galvanised steel sheet with folded edges and curled hose plate				
e	edges and painted with electro static powder coating, 180°C				
	baked. The cabinet to have adequate space to house 30m long	3	No.		
	hosereel and 3No. portable fire extinguishers and should				
	conform to BS EN 671-1. To be as Germania or equal and				
	approved.				
	GMS Pipes Class B				
С	25mm diameter pipework	10	Lm		
D	50mm diameter pipework	30	Lm		
[]	Extra Over Pipework				
]	Bends				
Е	25mm diameter bend	4	No.		
F	50mm diameter bend	10	No.		
7	Tees				
G	50mm diameter equal tee	6	No.		
]	Reducers				
Н	50 x 25 mm diameter reducer	2	No.		
ין	Valves				
2	25mm diameter approved medium pressure screw down full way				
-	non-rising stem wedge gate valve to BS 1952, with wheel and				
	head joints to steel tubing. The gate valve to be as PEGLER or	4	No.		
2	approved equivalent.				
J	50mm diameter gate valve	6	No.		

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Unions				
А	25mm diameter pipe union	6	No.		
A B C	25mm diameter pipe union 50mm diameter pipe union Hosereel Pumpset Hose reel pumpset, one duty, the other standby mounted on a frame with a mild steel base plate. Each pump shall have a duty $3m^3/hr$ against 25m head as Grundfos CR series or approved equivalent. In addition, there shall be a 60 litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dry run, 50mm foot valve and strainer, tank connections, gate valves and non-return valves. The pressure set to be as Dayliff or equal and approved.Control shall be effected via a pressure switch through a pre-wired control panel which shall give automatic change-over from duty to standby pump within 5 seconds should the duty pump fail to deliver for any reason. The pumpset shall include all non-returns valves, timer, isolating valves and pipe connections. Control panel for above pumps with contactors, over voltage and under voltage protection relays, MCBs, phase failure protection, timer, 120 meters long float switch control 4-core cable to the roof tanks, start/stop push buttons and indicator lights. All these shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated. There shall also be an adjustable time delay switch to ensure pumping cycles are controlled to not more than 6 per hour. It should include a change-over switch to enable the pumps to work alternately.	6 8	No. No.		
D	Electrical Works Allow for electrical works wiring and fitting to all pumps, control panel and float switches, from isolator provided by others with 3 metres distance. Painting	1	Item		
Е	Allow for painting of the hose reel pipework to signal red	1	Item		
	Total for Fire Protection Services carried forward to S	umma	ry page	e J-2 4	

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Portable Fire Extinguishers				
	Supply, deliver, install, test and commission the following portable fire extinguishers and conforming to BS EN 3 / BS 1449.				
	Water Fire Extinguisher				
А	9 litres water portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	3	No		
	Carbon Dioxide Gas Fire Extinguisher				
В	5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	3	No		
	Dry Chemical Powder Fire Extinguisher				
С	6kg dry chemical podwer portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	3	No		
	Manual Alarm Bell				
D	9" (225mm) manual operated alarm bell (Gong)	3	No		
	Fire BlanketFire blankets - Made of fire resistant glass fiber fabric with silicone coating of size 1.2m x 1.8m,Weight of				
Е	480g/m2 and temperature of 550°C. Packing Covered in Nylon Bag and Packed in Hard PVC Red Pack to conform to BS EN1869:1997 as NAFFCO's NFB 4.6 or equal and approved	3	No.		
	Fire Notices				
	Allow for 4No. fire signage for the hose reel system, 10 No.				
F	LED fire exits signs, 1No. Reflective fire assembly sign and	3	No		
	6No. fire instructions as directed by the Project Engineer.				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Project Stationery				
А	High back leather chair with tilting back and adjustable height as Victoria SB 81A or approved equivalent.	2	No.		
В	Hp laser jet printer, with Copy/Print/Scan Multi-function Machine, WiFi, Laser Printing, capability to print back to back print speed of 30ppm and print resolution above 1200x1200 dpi, memory of 256mb. The printer to be supplied with five toner catridges.	1	No.		
С	Photocopy paper, size A4, 80g/cm ³ , White, 500 sheets	10	Reams		
D	Training Levy Kshs 150,000.00 for State Department for Public Works Mechanical Engineering Department Staff	1	Item		
Е	Add profit and attendance to item D above	1	Item		
	Total for Stationary c/f to Summary page J-	-24			

SUMMARY PAGE (MECHANICAL WORKS).

Item	Description	Amount (Kshs)
1	Total for PreliminariesE-6	
	Sanitary Fittings	
2	Total amount brought forward from pageE-7	
3	Total amount brought forward from pageE-8	
4	Total amount brought forward from pageE-9	
	Internal Plumbing	
5	Total amount brought forward from pageE-10	
6	Total amount brought forward from pageE-11	
7	Total amount brought forward from pageE-12	
8	Total amount brought forward from pageE-13	
9	Total amount brought forward from pageE-14	
	Internal Drainage	
10	Total amount brought forward from pageE-15	
11	Total amount brought forward from pageE-16	
	Fire Fighting Installations	
12	Total amount brought forward from pageE-17	
13	Total amount brought forward from pageE-18	
14	Total amount brought forward from pageE-19	
	Total for Stationery	
15	Total amount brought forward from pageE-20	
16	Contigency Sum	100,000.00
A	Total Amount for Mechanical Works C/f to form of Tender.	
Amou 	int in words	
Tende	erer's Name and Stamp	
Addre	SS	
Perioc	To Execute The Works	
Telepl	none No	
Mobil	e Phone No.	
Tende	erer's V.A.T No	
Tende	erer's P.I.N No	
Tanda	erer's Signature Date	

Witness Signature Date.....

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 authorized 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

Item	Description	Unit	Rate (Kshs)
1.	50mm PPR pipe	LM	
2.	40mm PPR pipe	LM	
3.	32mm PPR pipe	No.	
4.	25mm –ditto	No.	
5.	Pedestal "Duravit" wash hand basin (Chrome pop up waste)	No.	
6.	Urinal flush valve with sensor.	No.	
7.	Paper Towel disposal bin 20L (Foot pedal operated lid)	No.	
8.	Paper Towel dispensing unit (250 Sheets).	No.	
9	25mm GMS pipe class B	No	
10	25mm GMS pipe class C	LM	
11	32 mm Pressure Reducing valve (Pegler)	LM	
12	40mm - ditto	No.	
13	Gate Valve 50mm diameter	No.	
14	6.0mm Thick Pressed Steel Plate of dimension 1000mm X 1000mm	No.	

TECHNICAL SCHEDULE OF ITEMS TO BE SUPPLIED

TECHNICAL SCHEDULE

- 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/Engineer.
- 2. This schedule shall form part of the technical evaluation criterion, and tenderers are therefore advised to complete the schedule as they shall be considered non responsive.

NB. The tenderer must complete in full the technical schedule. Apart from the information required in the technical schedule, the tenderer **MUST SUBMIT LEGIBLE** comprehensive manufacturer's technical brochures and performance details for all items listed in this schedule and **CLEARLY HIGHLIGHT THE SPECIFIC REQUIRED ITEM ONLY**.

S/NO	DESCRIPTION	MANUFACT URER	COUNTRY OF ORIGIN	REMARKS (Catalogue No. etc.)
А	Gate Valves			
В	Pipes Cpcv			
С	Water closet			
D	Wash hand basin			
Е	Urinal			
F	Urinal Flush Valves			
G	Fire Hose reel			
Н	Booster Pumpset			
Ι	Fire Pumpset			
J	Fire Portables			
К	Kitchen Sink			
L	Under sink Water Heater			

SECTION F:

STANDARD FORMS

<u>NOTE:</u>

ALL FORMS IN THIS SECTION MUST BE FILLED AS THEY SHALL BE PART OF THE EVALUATION

CRITERIA

STANDARD FORMS

CONTENTS

FORM

<u>PAGE</u>

1.	KEY PERSONNEL	G-1
2.	CONTRACTS COMPLETED IN THE LAST FIVE (5) YEARS.	G-2
3	SCHEDULE OF ON-GOING PROJECTS	G-3
4	DETAILS OF LITIGATIONS OR ARBITRATION PROCEEDINGS	G-4
5	SCHEDULE OF MAJOR ITEMS OF CONTRACTOR'S EQUIPMENT PROPO CARRYING OUT THE WORKS	OSED FOR GF-5

1 KEY PERSONNEL

POSITION	ons and experience of key personnel proposed for adm: NAME	YEARS OF	YEARS OF
FUSITION		EXPERIENCE	EXPERIENCE
		(GENERAL)	IN PROPOSED
		(GENERAL)	POSITION
			POSITION
1.			
1.			
2.			
۷.			
3.			
5.			
4.			
5.			
6.			
7.			
0			
8.			
9.			
).			
10.			

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

I certify that the above information is correct.

Title

Signature

.....

Date

2 CONTRACTS COMPLETED IN THE LAST FIVE (5) YEARS

PROJECT NAME	NAME OF	TYPE OF WORK	VALUE OF
	CLIENT	AND YEAR OF	CONTRACT
	GLILIT	COMPLETION	(Kshs.)
		COMPLETION	(13115.)

Work performed on works of a similar nature and volume over the last five years.

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

Title Signature Date

3 SCHEDULES OF ON-GOING PROJECTS

PROJECT NAME	NAME OF CLIENT	CONTRACT SUM	% COMP LETE	COMPLET ION DATE

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

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

Title

Signature

Date

3 DETAILS OF LITIGATIONS OR ARBITRATION PROCEEDINGS IN WHICH THE TENDERER IS INVOLVED AS ONE OF THE PARTIES

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

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

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

BILL NO.5 - PROVISIONAL SUMS

ITEM	DESCRIPTION	RATE	AMOUNT (KShs.)
	<u>BILL NO.5 - PROVISIONAL SUMS</u>		
	The following provisional items are to be measured on completion of the works and priced in accordance with rates contained in these Bills of Quantities or pro-rata thereto or deducted in whole if not required.		
	Provisional sum for:		
A	Allow a provisional sum of Kenya Shillings Five Million (Ksh. 5,000,000.00) only for contingencies		5,000,000.00
В	Allow a provisional sum of Kenya Shillings Five Million (Ksh. 5,000,000.00) only for Fluctuations		5,000,000.00
с	Allow a provisional sum of Kenya Shillings Five Hundred Thousand (Ksh. 500,000.00) only for Kenya Power (KPLC) capital cost/utility power connection		500,000.00
	TOTAL BILL NO.5 - PROVISIONAL SUMS CARRIED TO GRAND SUMMARY	KSHs.	10,500,000.00

GRAND SUMMARY

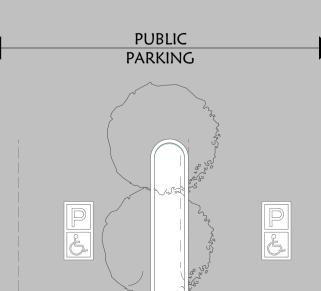
PROPOSED CONSTRUCTION OF ARDHI HOUSE AT MUTOMO, KITUI COUNTY - PHASE I.

GRAND SUMMARY								
BILL NO.	DESCRIPTION	PAGE NO.	FOR TENDERER USE ONLY	FOR OFFICIAL USE ONLY				
			K.SHS.	K.SHS.				
1	PARTICULAR PRELIMINARIES	PRLS/1						
2	BUILDER'S WORKS	BW/26						
3	ELECTRICAL WORKS	E/79						
4	MECHANICAL WORKS	E-22						
5	PROVISIONAL SUMS	PS/1		10,500,000.00				
	GRAND TOTAL CARRIED TO FORM OF							
	TENDER (V.A.T INCLUSIVE)							
	AMOUNT IN WORDS : KENYA SHILLINGS							
	TENDERER'S NAME							
	ADDRESS							
	DATE							
	TENDERER'S SIGNATURE							
	WITNESS'S NAME							
	ADDRESS							
	DATE							
	WITNESS SIGNATURE							

DRAWINGS

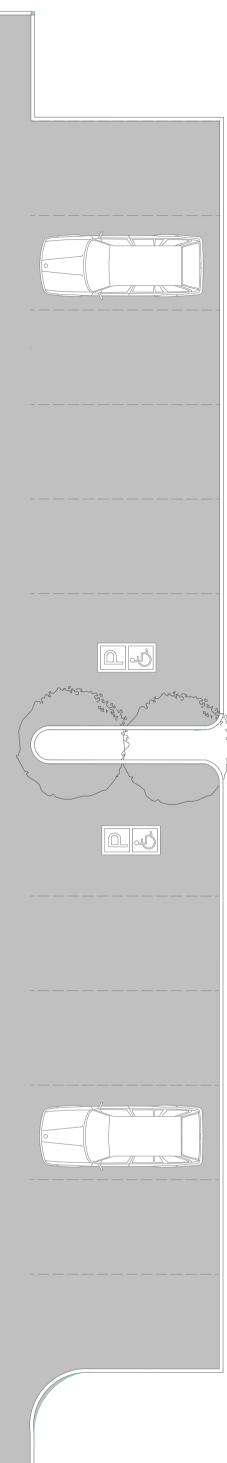


GROUND FLOOR 1:100



STAFF PARKIN

2



NOTES

general

This drawing is to be read in conjuction with engineers' drawings All dimensions are in mm unless otherwise specified. drawings are not to be scaled. Only figured dimensions to to be used. The contractor must check & verify all the dimensions before commencement of the work.

All slabs at ground level to be layed over 1000 gauge

construction

polythene sheeting on 50mm thick murram blinding,on well compacted hardcore. All soils under slabs & around external foundation to be poised for the termites control.

structural All black cotton soil to be removed from below all

clear of black cotton soil to a distance of 500m outside the edge of the surface. For all R.C works, refer to SE's details.

building & paved surfaces. All paved surfaces to be

Foundation depths to be determined on site to the SE approval. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course. All adjacent R.C work and masonry walls to be tied with strap irons at every course.

mechanical

All plumbing & drainage work to comply with P.H specifications. All surface ducts to be accessible from all floors. S.V.P denotes soil vent pipe and to be provided at the head of the drainage. Drains passing beneath buildings and driveways to be encased in 150mm concrete sorround. All underground foul & waste drain pipes shall be of PVC. to comply with B5255. All inspection chambers covers and framing shall be cast iron to comply with B5.497 Table 2 Grade A. The storm water drain pipes to comply with B5.556. Minimum slope in the drain pipes to be 1% No chases for pipes will be allowed in the slabs. Sleeves will be allowed with written approval from the SE No cutting of concrete without express approval of the Architect. or SE. All testing of pipes must be cordinated with electrical & any conflicts must be clarified before works begins. P.V denotes permanent vents.

electrical

All conduits must be laid before plastering.

fire fighting

Provide a 1130 litres reserve tank with a booster pump Dry risers Provide a 1x30m hydraulic Hose-real, on every floor. \Provide manual/ electric break glass fire alarm system. Provide 4x9kg litres water CO2 fire extingushers on every floor

revisions

project

Proposed Ardhi House Mutumo, Kitui County

drawing title

Ground Floor Plan.

WP Item no.

client ministry/department Ministry of Lands, Public Works, Housing and Urban Development

client signature

code

 scale
 1

 2
 3

 project job no.
 drawing no.

 mame
 signed

 date

 Drawn & Designed by
 Arch. A. Njimu

 Checked by
 Arch. E. A. Mwaniki

 Team Leader
 Arch. D. M. Waititu

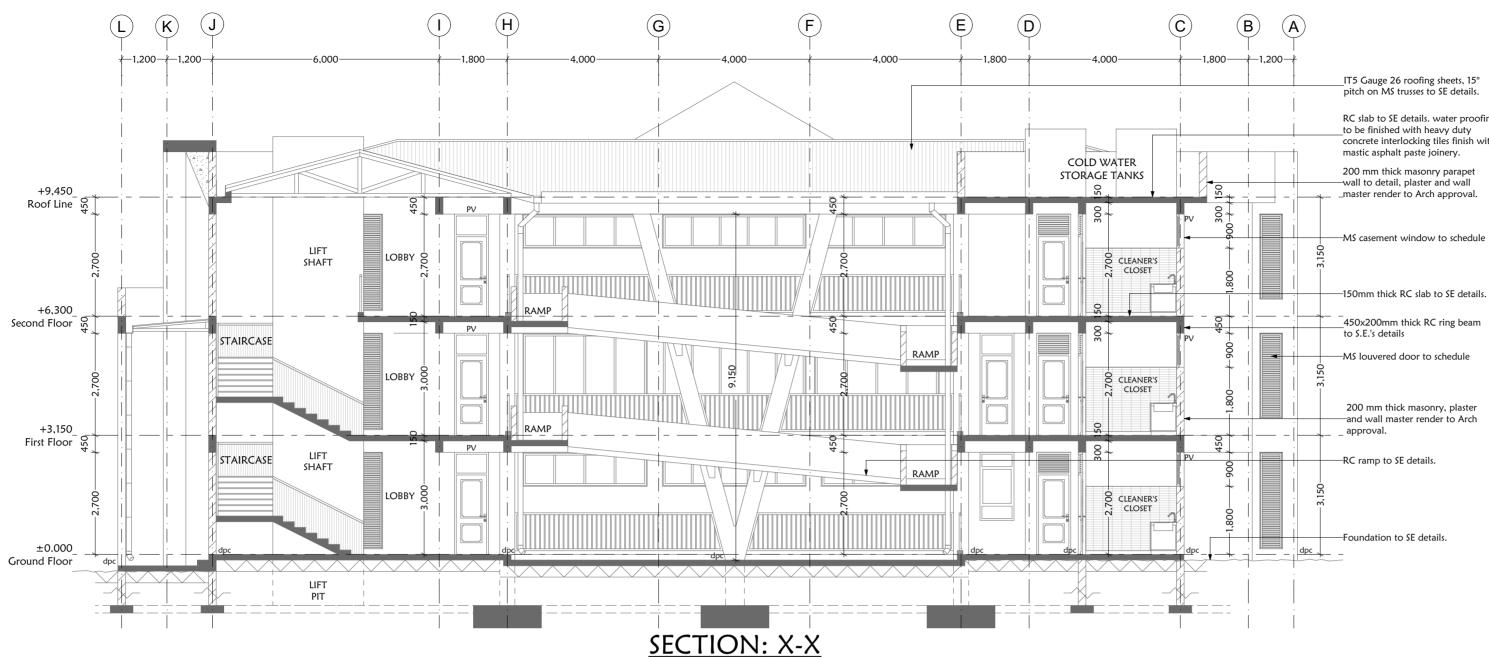
 Team Co-ordinator
 Arch. H. K. Njagi

 APPROVED
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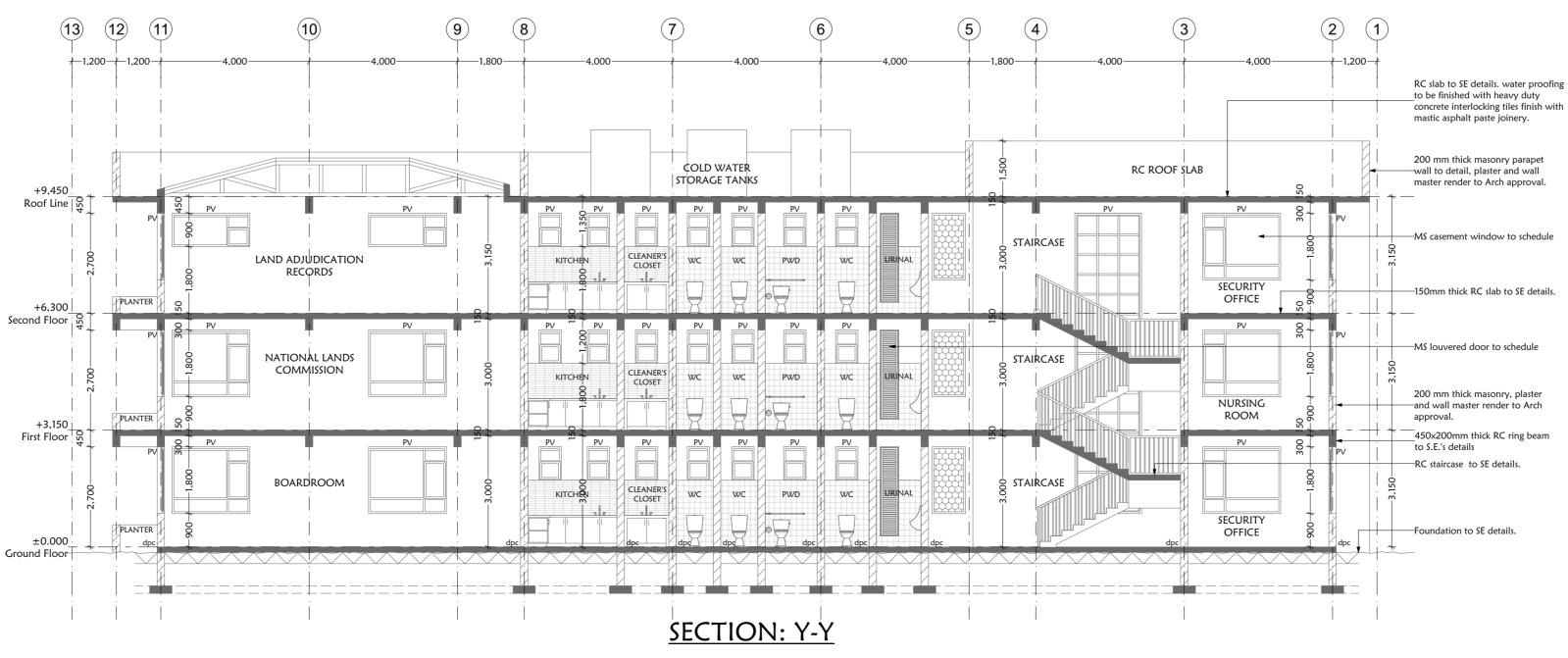
Architect L. M. Mochama Chief Architect

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR PUBLIC WORKS ARCHITECTURAL DEPARTMENT





SECTION X-X 1:100



SECTION Y-Y 1:100

NOTES

general This drawing is to be read in conjuction with engineers' drawings

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All slabs at ground level to be layed over 1000 gauge polythene sheeting on 50mm thick muram blinding.on well compacted hardcore. All soils under slabs & around external foundation to be poised for the termities control.

structural

All black cotton soil to be removed from below all building & paved surfaces. All paved surfaces to be clear of black cotton soil to a distance of 500m outside the edge of the surface.

For all R.C works, refer to SE's details. For an K.-. works, reter to 25's details. Foundation depths to be determined on site to the SE approval. All walls less than 200mm thick to be reinforced. with hoop iron at every alternate course. All adjacent R.C. work and masonry walls to be tied with strap irons at every course.

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oroject				
revisio	ns			
		revisions		

Proposed Ardhi House - Samburu County

drawing title

Section Elevation Y-Y

WP item no.

D111/RV/SBU/1901

client ministry/department Ministry of Lands and Physical Planning client signature code scale 1:100 project job no drawing no 10659A name signed date Drawn &). Oqut Checked by E. A. Mwaniki. Team leader Arch. Gitimu

APPROVED

Architect L.M.Mochama Chief Architect

Co-ordinator

MINISTRYOF TRANSPORT. INFRASTRUCTURE, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR PUBLIC WORKS

ARCHITECTURAL DEPARTMENT



FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

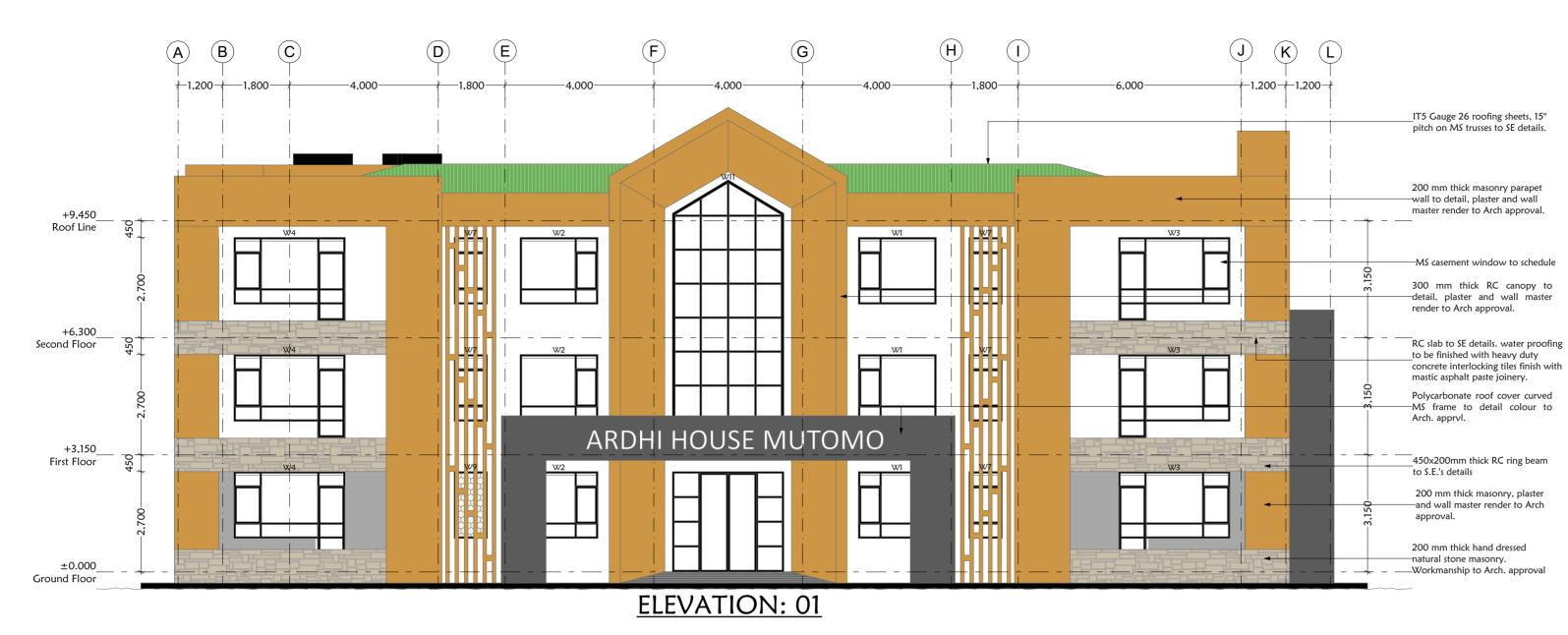
RC slab to SE details, water proofing to be finished with heavy duty concrete interlocking tiles finish with

450x200mm thick RC ring beam

ELEVATION 02 SIDE



ELEVATION 01 FRONT



NOTES

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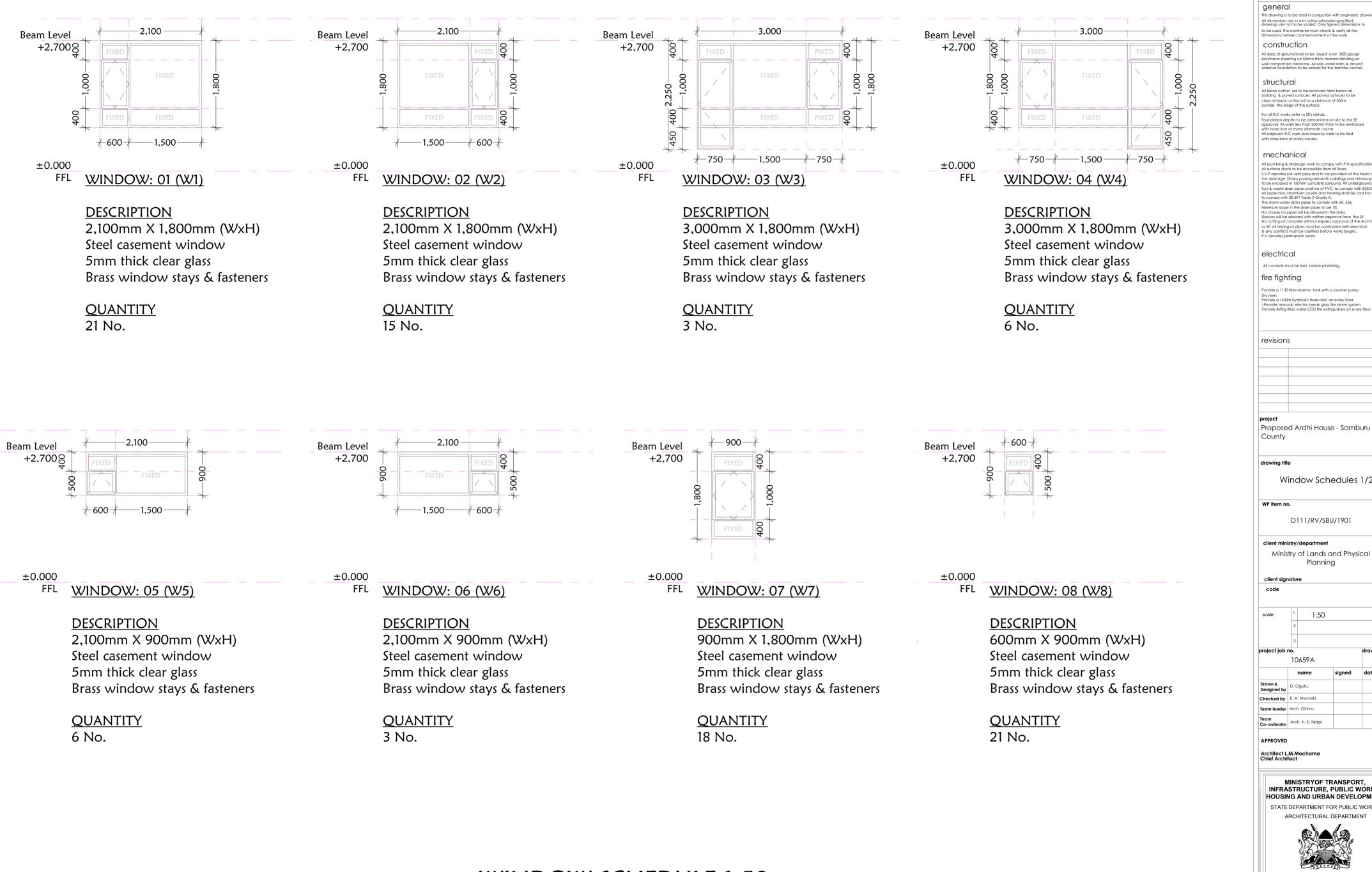
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revisions projec Proposed Ardhi House - Samburu County drawing title Elevations WP item no. D111/RV/SBU/1901 client ministry/department Ministry of Lands and Physical Planning client signature code scale 1:100 project job r drawing no 10659A name signed date Drawn &). Oqut Checked by E. A. Mwaniki. Team leader Arch. Gitimu Co-ordinator APPROVED Architect L.M.Mochama Chief Architect MINISTRYOF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR PUBLIC WORKS ARCHITECTURAL DEPARTMENT



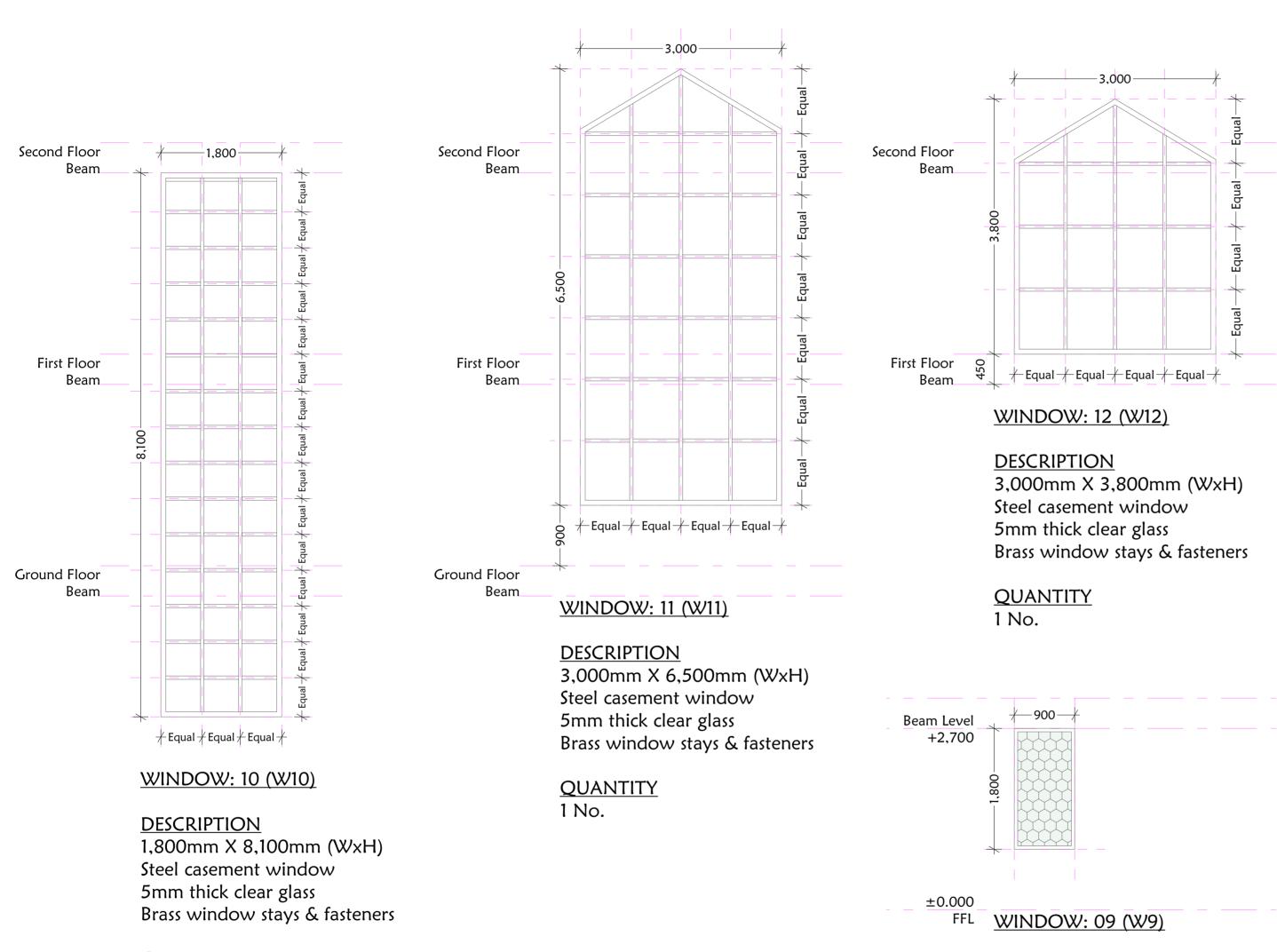
WINDOW SCHEDULE 1:50

NOTES

Window Schedules 1/2

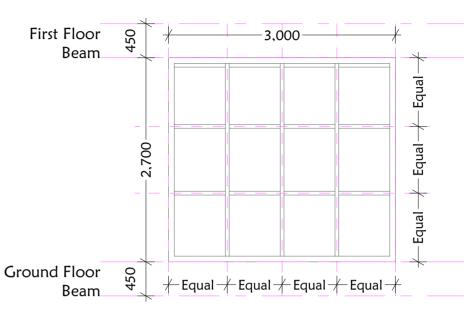
Ministry of Lands and Physical

MINISTRYOF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR PUBLIC WORKS ARCHITECTURAL DEPARTMENT



<u>QUANTITY</u> 1 No.

WINDOW SCHEDULE 1:50



WINDOW: 13 (W13)

DESCRIPTION 3,000mm X 2,700mm (WxH) Steel casement window 5mm thick clear glass Brass window stays & fasteners

QUANTITY 1 No.

DESCRIPTION

900mm X 1,800mm (WxH) 100mm thick concrete vent blocks Pattern to Arch. Approval 150mm X 50mm thick concrete window sill.

QUANTITY

6 No.

NOTES

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evisions

project Propose	d Ardhi House - Samburu

County

drawing title

Window Schedules 2/2

WP item no.

D111/RV/SBU/1901

client ministry/department Ministry of Lands and Physical Planning client signature

code

scale 1:50 roject job 10659A

date

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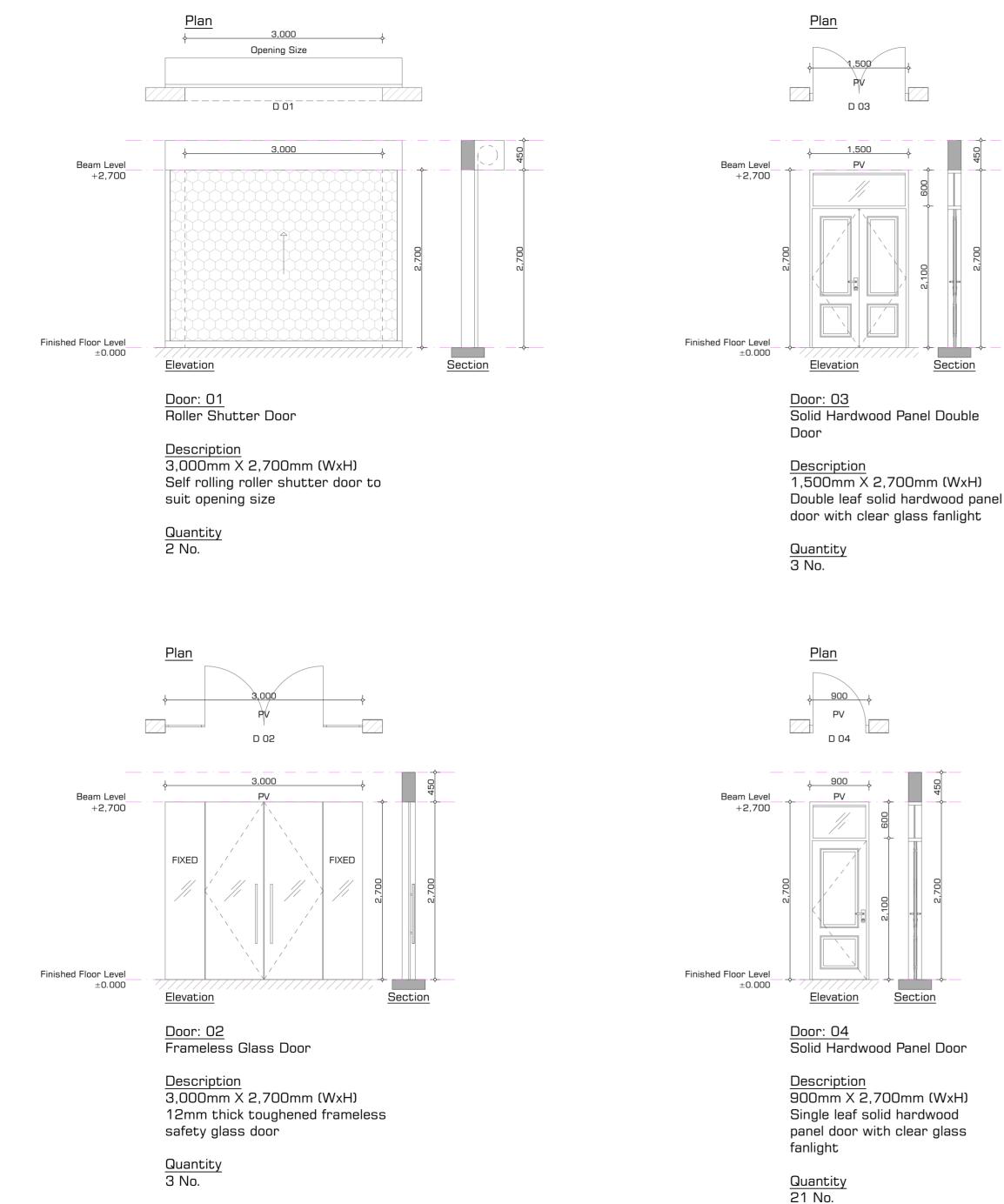
Team leader Arch. Gitimu Team Co-ordinator Arch. H. K. Njagi

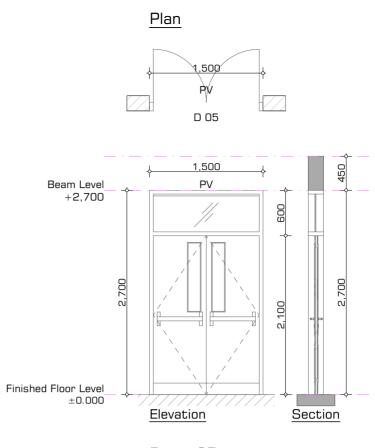
APPROVED

Architect L.M.Mochama Chief Architect

MINISTRYOF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR PUBLIC WORKS ARCHITECTURAL DEPARTMENT







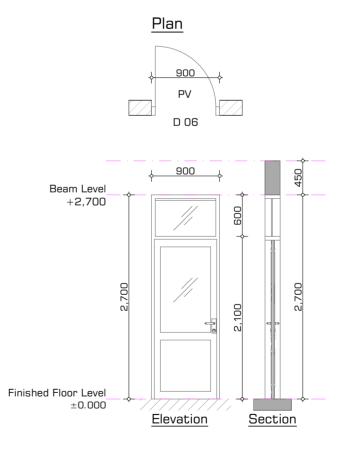
Door: 05

Heavy duty steel Fireproof Door

Description

1,500mm X 2,700mm (WxH) Double leaf heavy duty steel fireproof door with fanlight

Quantity 1 No.



Door: 06 Aluminium Door

Description

900mm X 2,700mm (WxH) Single leaf Aluminium framed glazed door with MDF bottom panel and fanlight

Quantity 19 No.

NOTES

general

This drawing is to be read in conjuction with engineers' drawings All dimensions are in mm unless otherwise specified, drawings are not to be scaled. Only figured dimensions to to be used. The contractor must check & verify all the dimensions before commencement of the work.

construction All slabs at ground level to be layed over 1000 gauge polythene sheeting on 50mm thick murram blinding.on well compacted hardcore. All solis under slabs & around external foundation to be poised for the termites control.

structural

All black cotton soil to be removed from below all building & paved surfaces. All paved surfaces to be clear of black cotton soil to a distance of 500m outside the edge of the surface.

For all R.C works, refer to SE's details. For all R.C. works, refer to SE's details. Foundation depths to be determined on site to the SE approval. All walls less than 200mm thick to be reinforcec with hoop iron at every alternate course. All adjacent R.C. work and masonry walls to be tied with strap irons at every course.

mechanical

Intection in the activity of t

electrical

All conduits must be laid before plastering.

fire fighting

Provide a 1130 litres reserve tank with a booster pump Dry risers Provide a 1x30m hydraulic Hose-real, on every floor. \Provide manual/ electric break glass fire alarm system. Provide 4x9kg litres water CO2 fire extingushers on every floor

project

Proposed Ardhi House Mutumo, Kitui County

drawing title

Door Schedules

WP item no.

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signed Drawn & Designed by Checked by Arch. E. Mwaniki Team leader Arch. J. Kamau Team Co-ordinator

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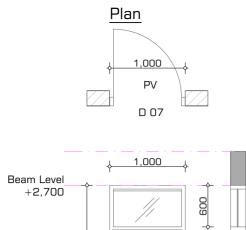
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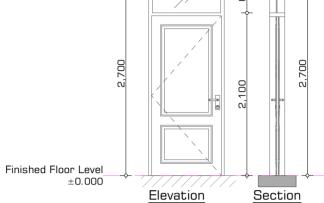
Architect L.M.Mochama Chief Architect

MINISTRYOF TRANSPORT. INFRASTRUCTURE, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR PUBLIC WORKS

ARCHITECTURAL DEPARTMENT





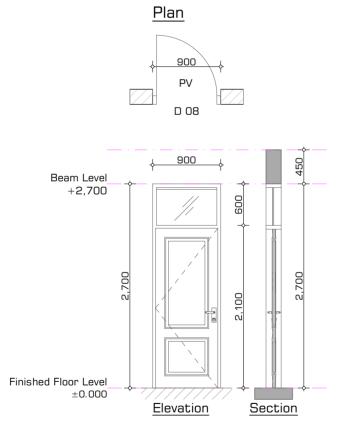


Door: 07 Flush Door

Description 1,000mm X 2,700mm (WxH) Single leaf semi-solid core

flush door with clear glass fanlight

Quantity 3 No.

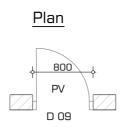


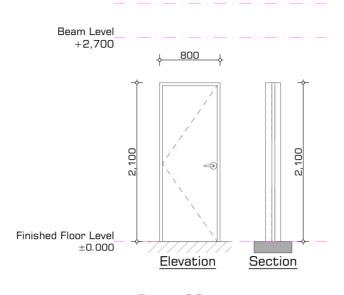
<u>Door: 08</u> Flush Door

Description

900mm X 2,700mm (WxH) Single leaf semi-solid core flush door with clear glass fanlight

Quantity 16 No.



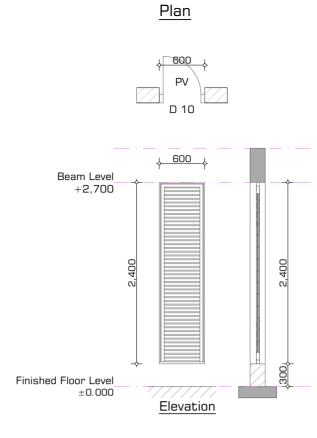


Door: 09 Flush Door

Description

800mm X 2,100mm (WxH) Single leaf semi-solid core flush door

Quantity 9 No.



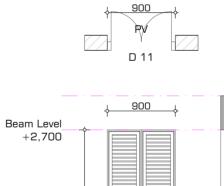
Door: 10 Mild Steel Louvered Door

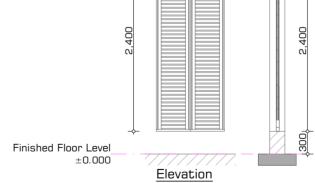
Description

600mm X 2,400mm (WxH) Single leaf mild steel louvered door

Quantity 30 No.

Plan





Door: 11 Mild Steel Louvered Double Door

Description 900mm X 2,400mm (WxH) Double leaf mild steel louvered door

Quantity 12 No.

NOTES

general

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For all R.C works, refer to SE's details. For all K.C. works, refer to SE's details. Foundation depths to be determined on site to the SE approval. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course. All adjacent R.C. wark and masonry walls to be tied with strap irons at every course.

mechanical

All plumbing & drainage work to comply with P.H specifications. All surface ducts to be accessible from all floors. S.V.P denotes soil vent pipe and to be provided at the head of the drainage. Drains passing beneath buildings and driveways to be encased in 150mm concrete sorround. All underground foul & wate drain pipes shall be of PVC. Lo comply with BS2525. All inspection chambers covers and framing shall be cast iron to comply with BS.497 Table 2 Grade A. The storm water drain pipes to comply with BS. 556. Minimum slope in the drain pipes to be 1% No chases for pipes will be allowed in the slabs. Sleeves will be allowed with witten approval from the SE No cuting of concrete without express approval of the Architect. or SE. All testing of pipes must be cordinated with electrical & any conflicts must be calified before works begins. P.V denotes permanent vents.

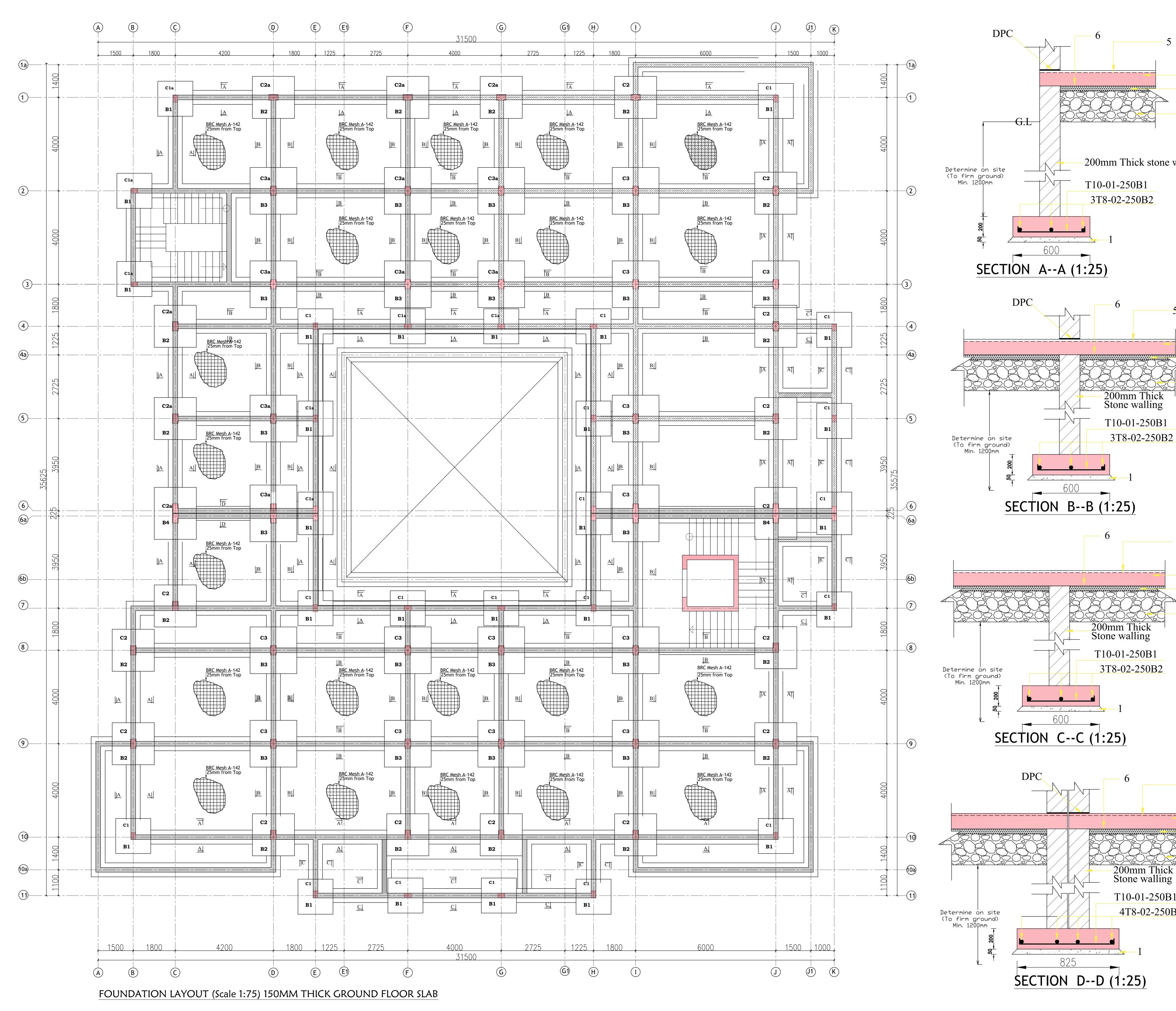
electrical

All conduits must be laid before plastering.

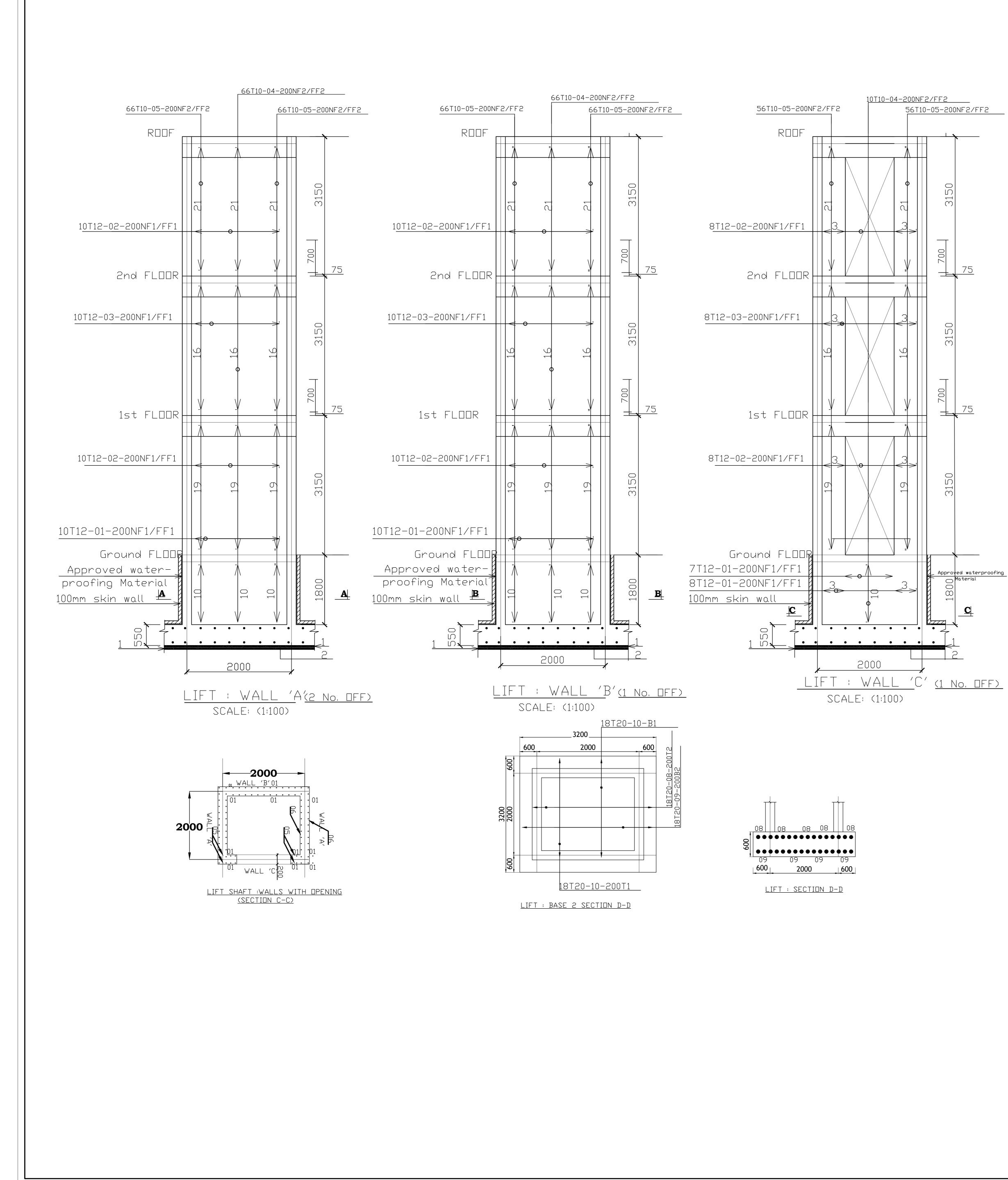
fire fighting

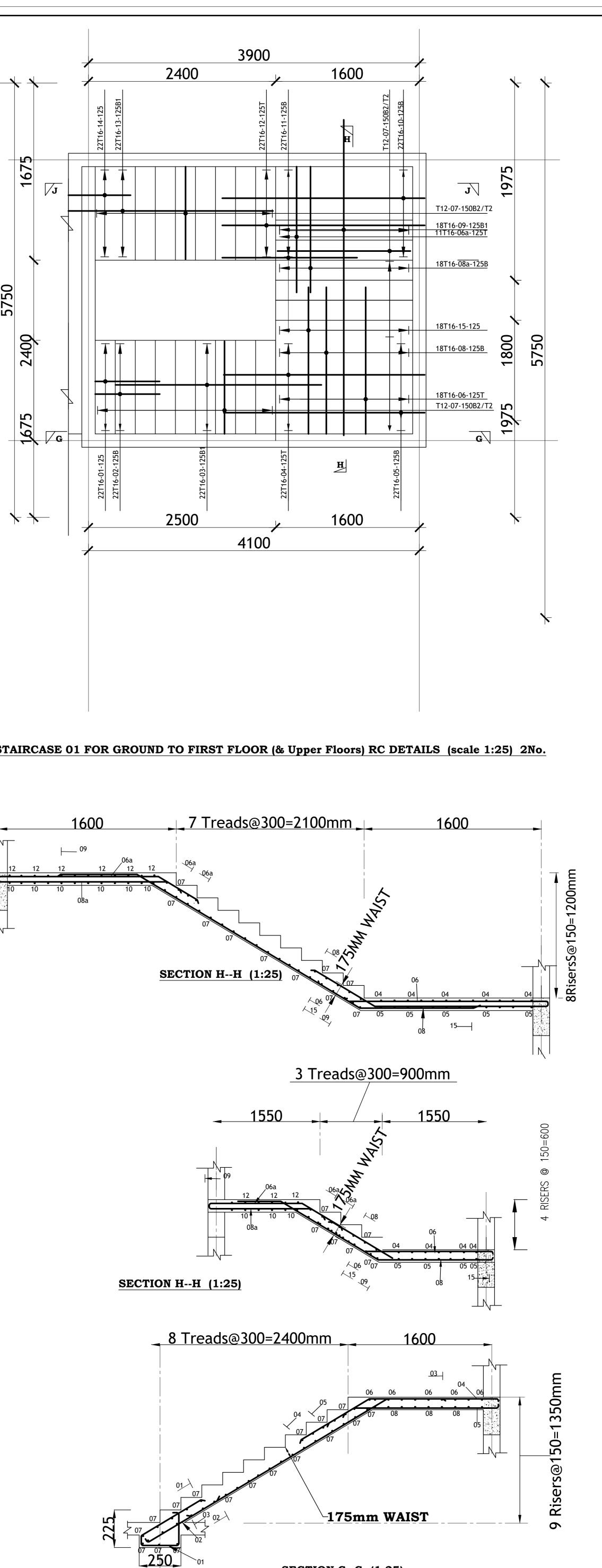
Provide a 1130 litres reserve tank with a booster pump Dry risers Provide a 1x30m hydraulic Hose-real, on every floor. Vrovide manual/ electric break glass fire alarm system. Provide 4x9kg litres water CO2 fire extingushers on every floor

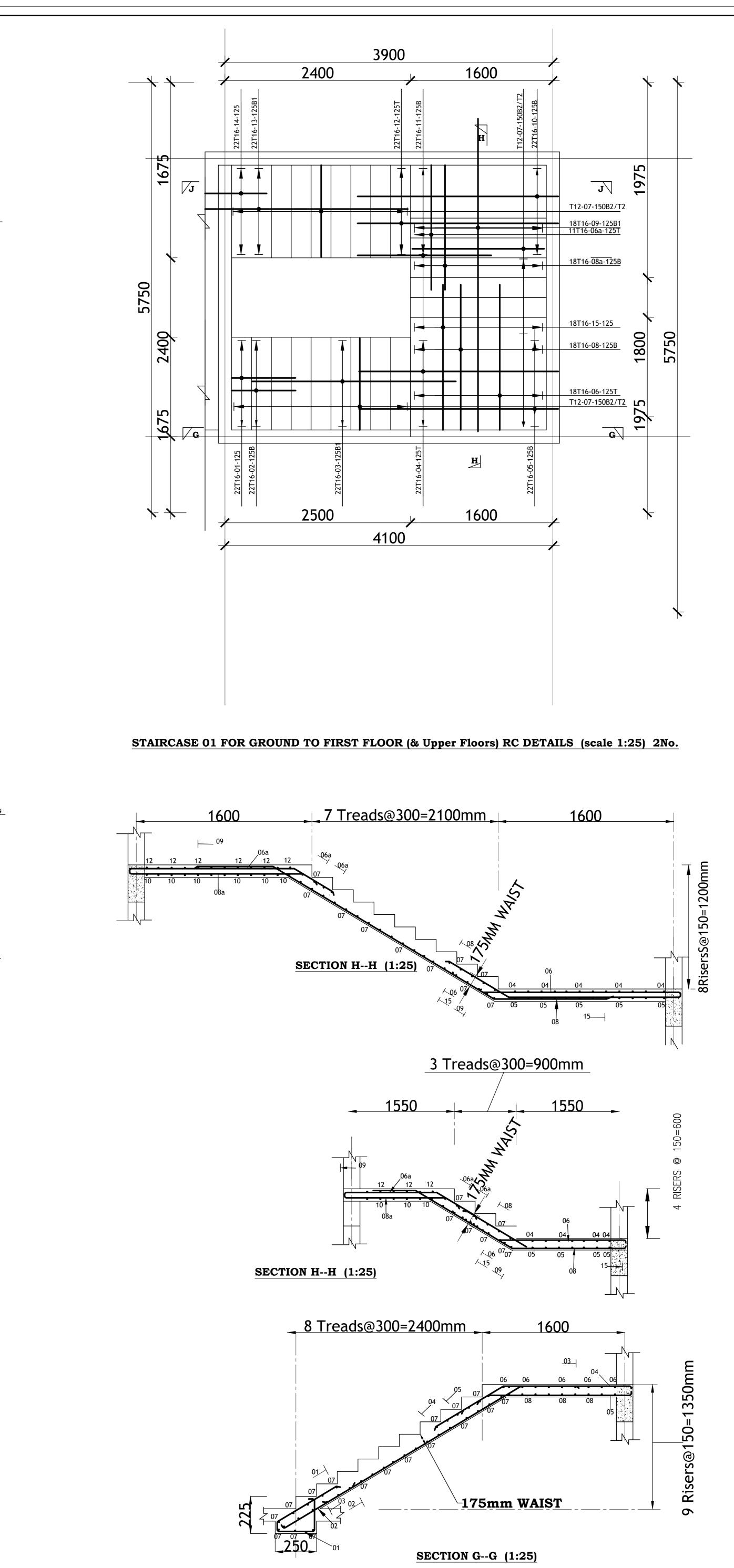
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	NOTES
	[1] All Structural concrete to be class 25/20
	[2] Foundation depth to be determined on site
	[3] Excavations to be inspected before blinding is laid
	[4] Damp proof course (DPC) to be laid under all walls[5] Hardcore to be hand packed and Compacted
	[5] Hardcore to be hand packed and Compacted to Engineer's satisfaction.
— 2	[6] All reinforcements <u>Must</u> be inspected by Structural Engineer before casting concrete.
	[7] Strip foundation to Structural Engineers specs[8] This drawing to be read in conjunction with any
walling	relevant Architectural, Civil, Structural or any other drawings
	 [9] Concrete cover to reinforcement steel to be as follows: [a] Foundation = 50mm [b] Columns = 40mm [c] Beams = 25mm [d] Slabs = 20mm
	[10] High Yield Ribbed Bars to KS:ISO 6935-2 are denoted "T"
	[11] Mild steel reinforcement bars to BS 4449 are denoted "R"
	[12] Any errors, discrepancies or omissions are to be reported to the Engineer immediately for correction before work is undertaken
5-	[13] Assumed bearing Capacity=80KN/M2
4	[14] The Contractor must confirm dimensions on site before commencing of any work
	[15] Minimum crushing strength of masonry stones or building blocks to be 7N/mm2
2	[16] All black cotton soil shall be removed during excavation of foundation.
	[17] Minimum lap length for all reinforcement bars shall be 50 x bar diameter
	KEY TO FOUNDATION
	SECTION DETAILS 1Blinding concrete (1:4:8) 2 300mm Well Compacted Approved Hardcore (Compacted in layers of 150mm) 3 50mm Murram Blinding 4 150mm Thick Slab 5 A142 BRC Mesh
5	5 A142 BRC Mesh6 500mm Gauge Damp
4	Proof Membrane (DPM)
4 3	ISSUES DATE TO APPLICATION TO
<u>⊳</u> 2	No. REVISIONS No. DATE BY DESCRIPTIONS GRP. LDR. C.S. ENG.
	REFERENCE DRAWINGS DESCRIPTIONS
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-5- -4 -3	KITUI COUNTY. DRAWING TITLE FOUNDATION PLAN AND STRIP FOOTINGS DETAILS.
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	NAME SIGN DATE DESIGN/DRAWN Nov, 2024
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	STRUCTURAL DEPARTMENT



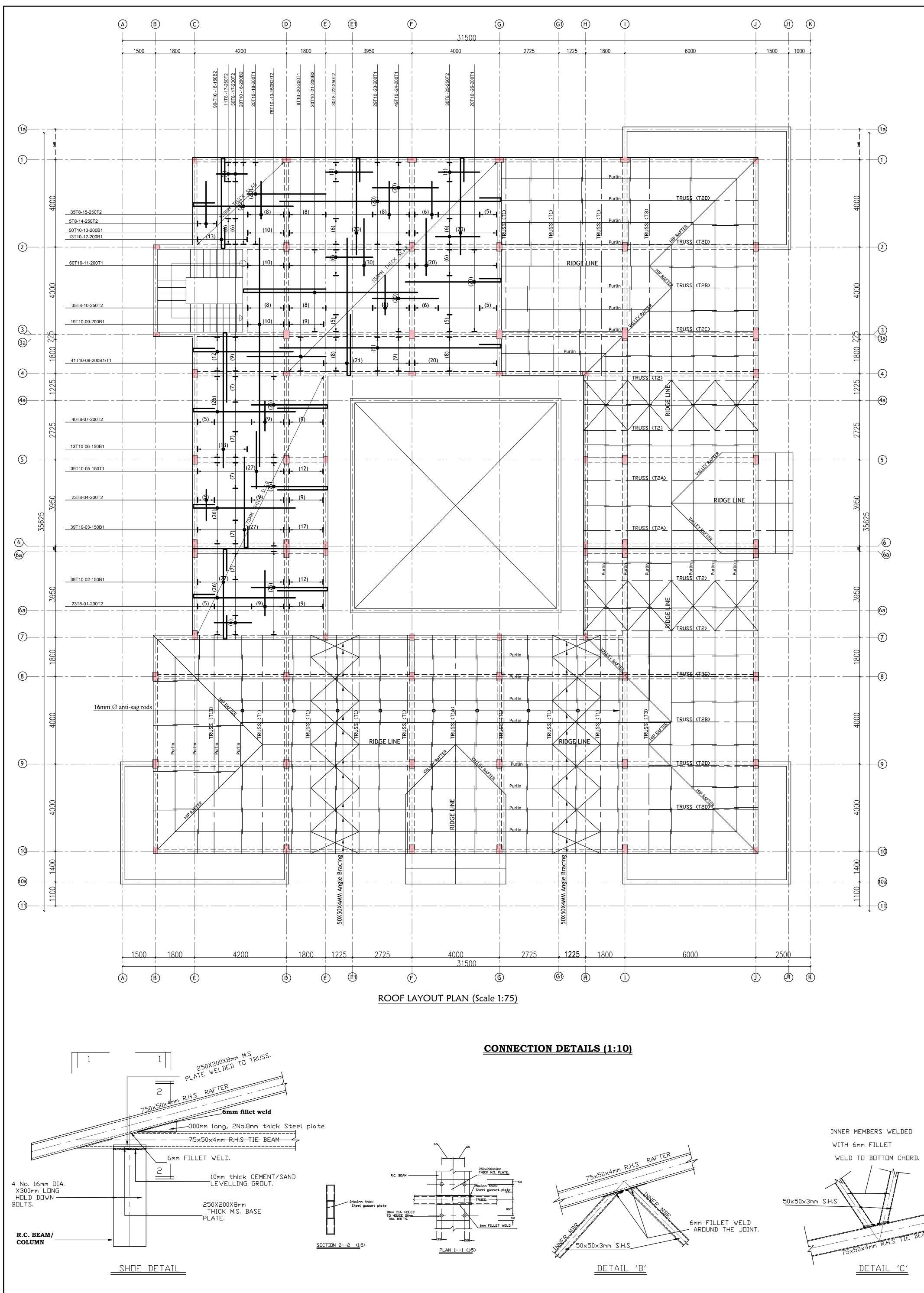


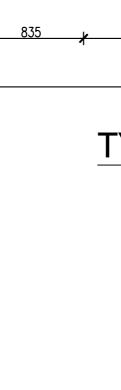


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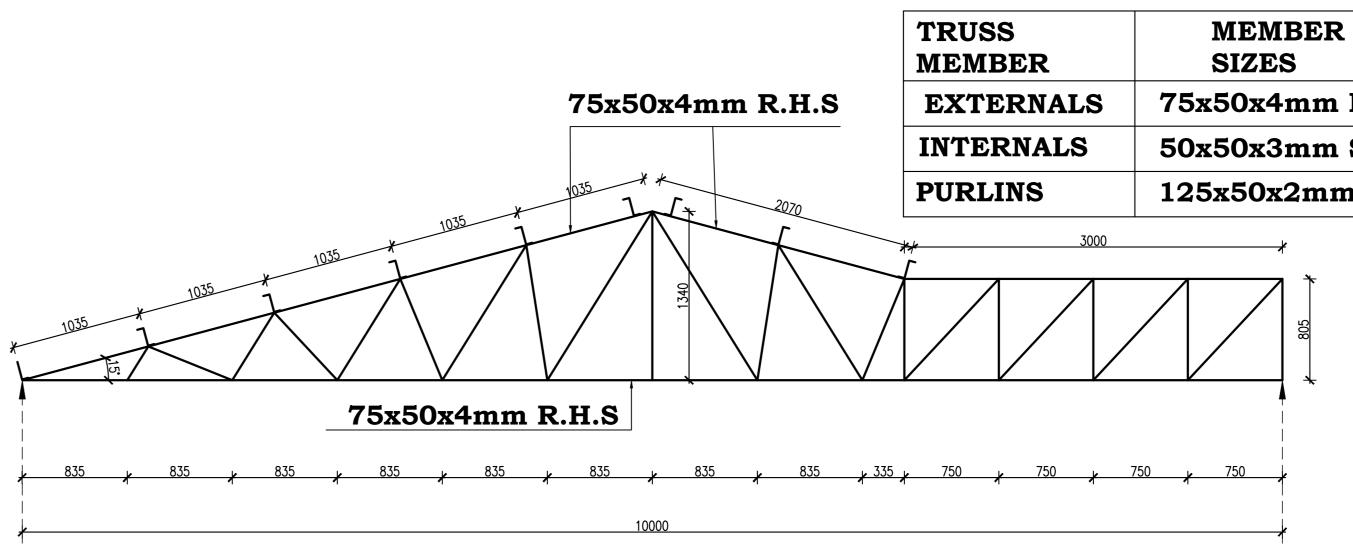
NOTES

[1] All Structural concrete to be class 25/20

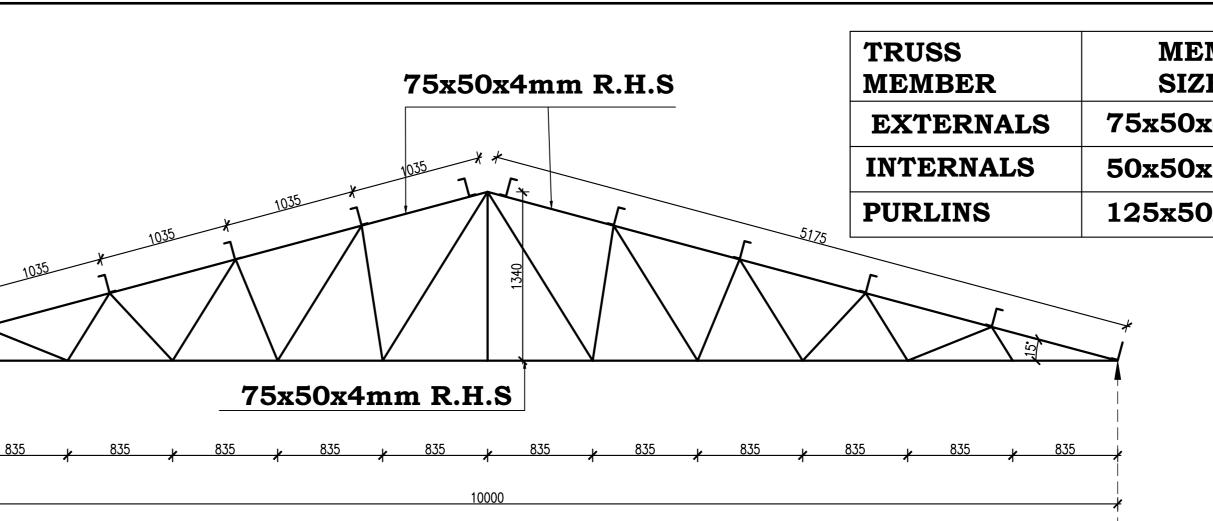




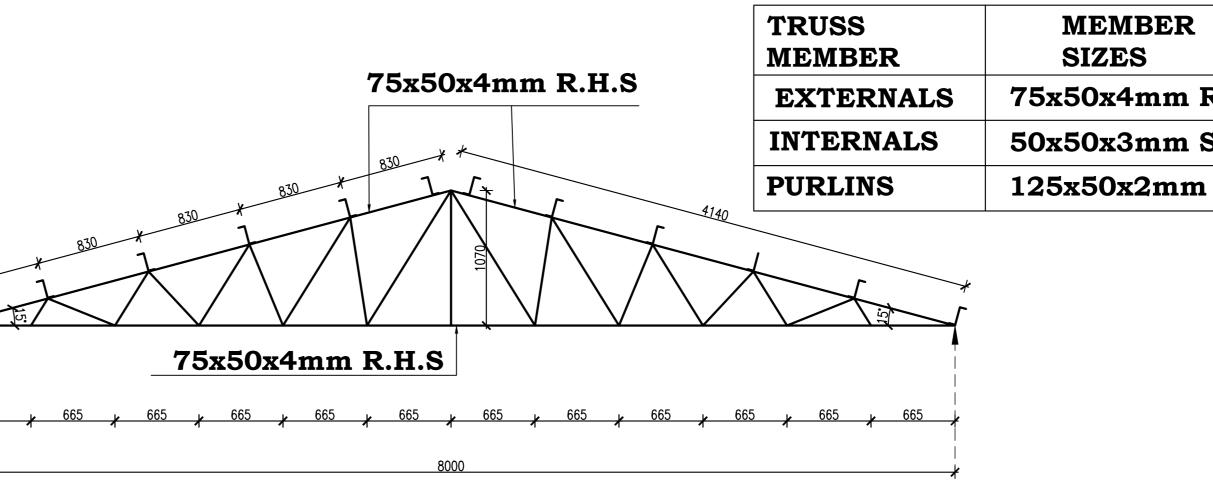




Purlin Bracings Sag Rods

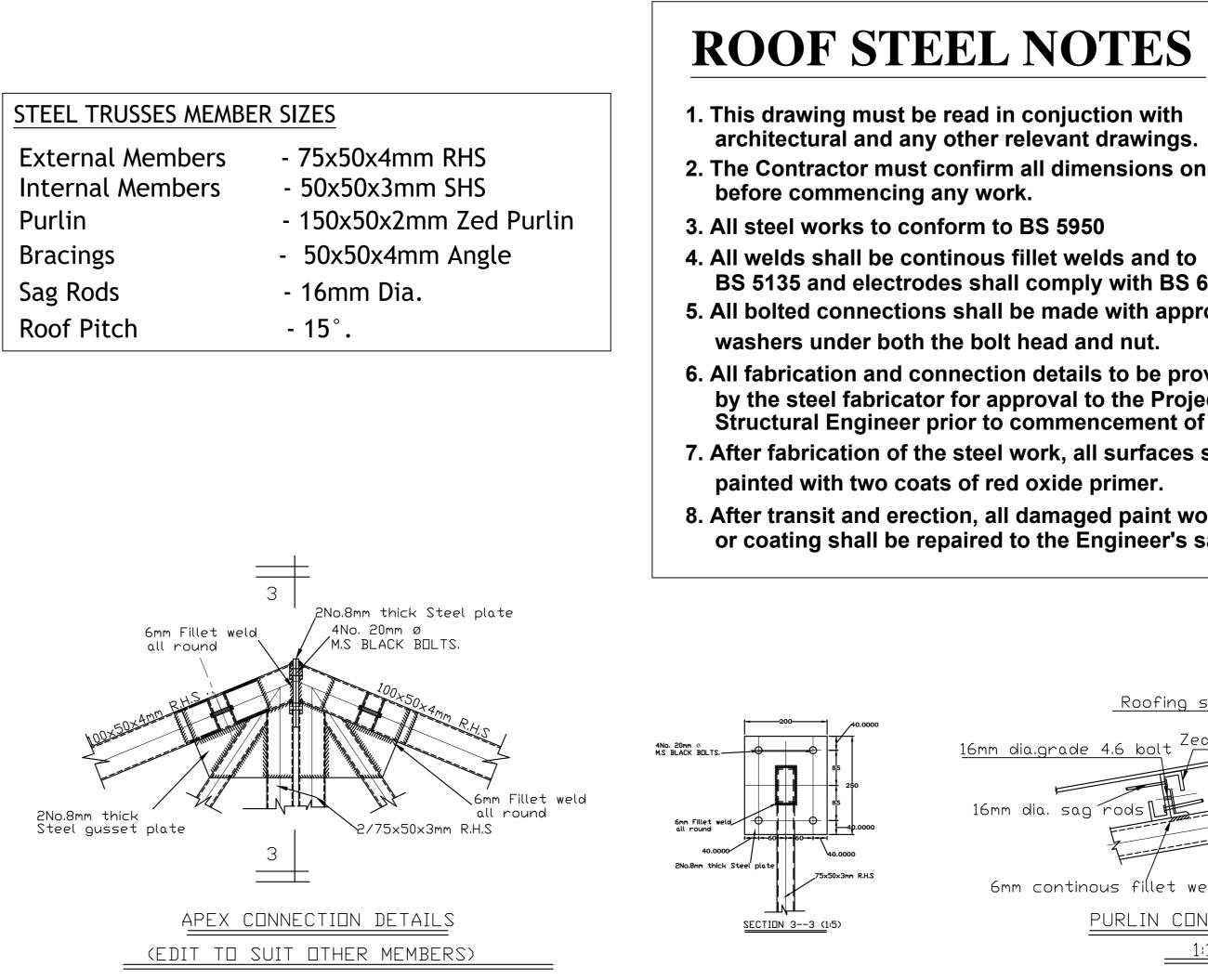




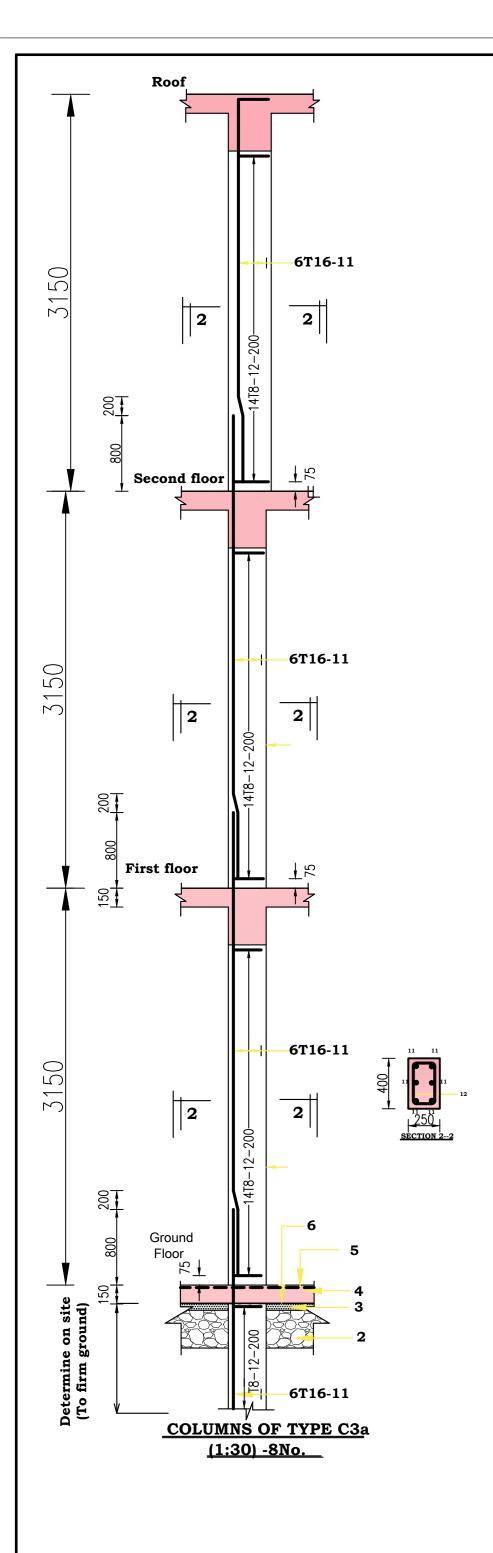


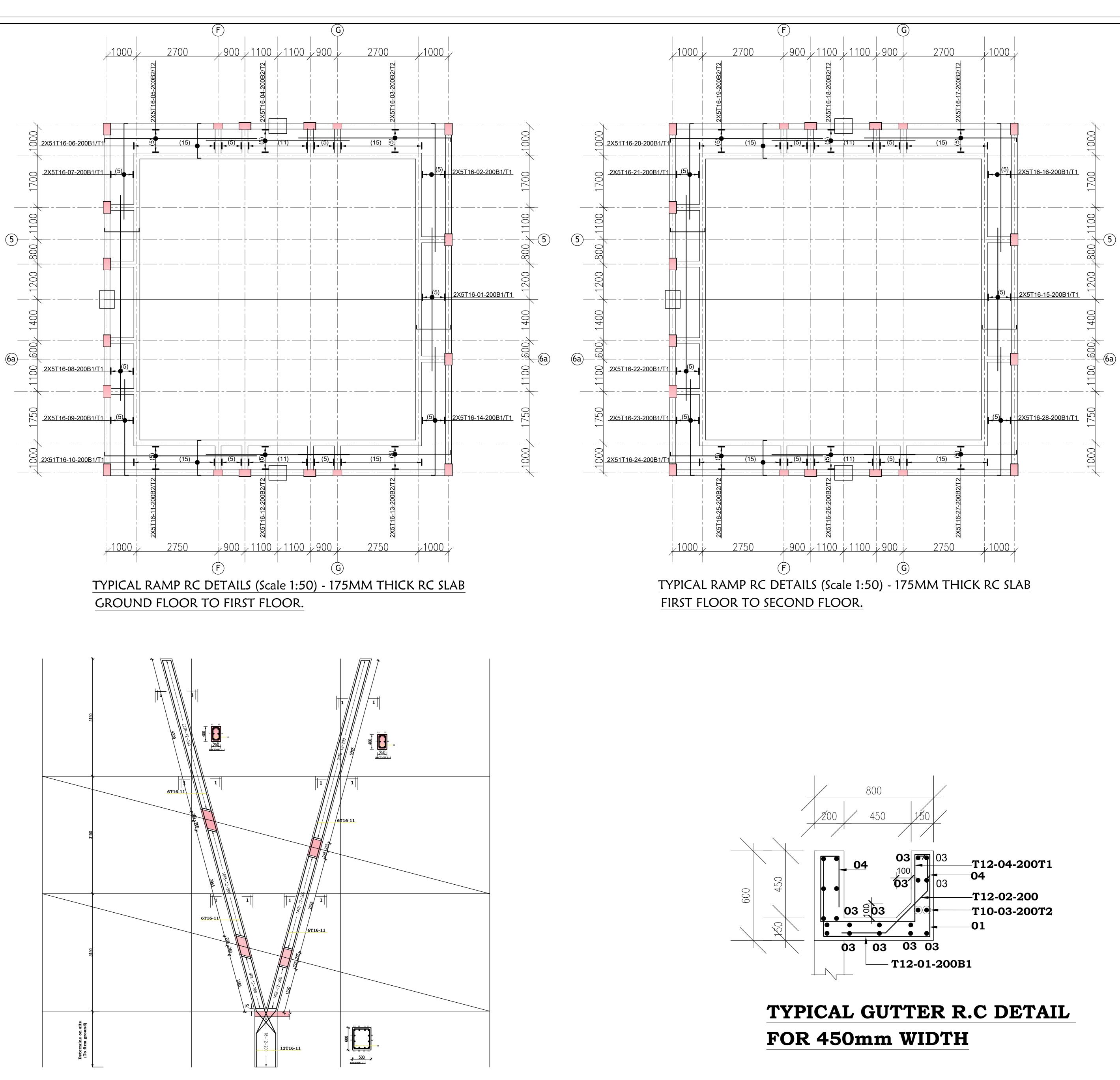


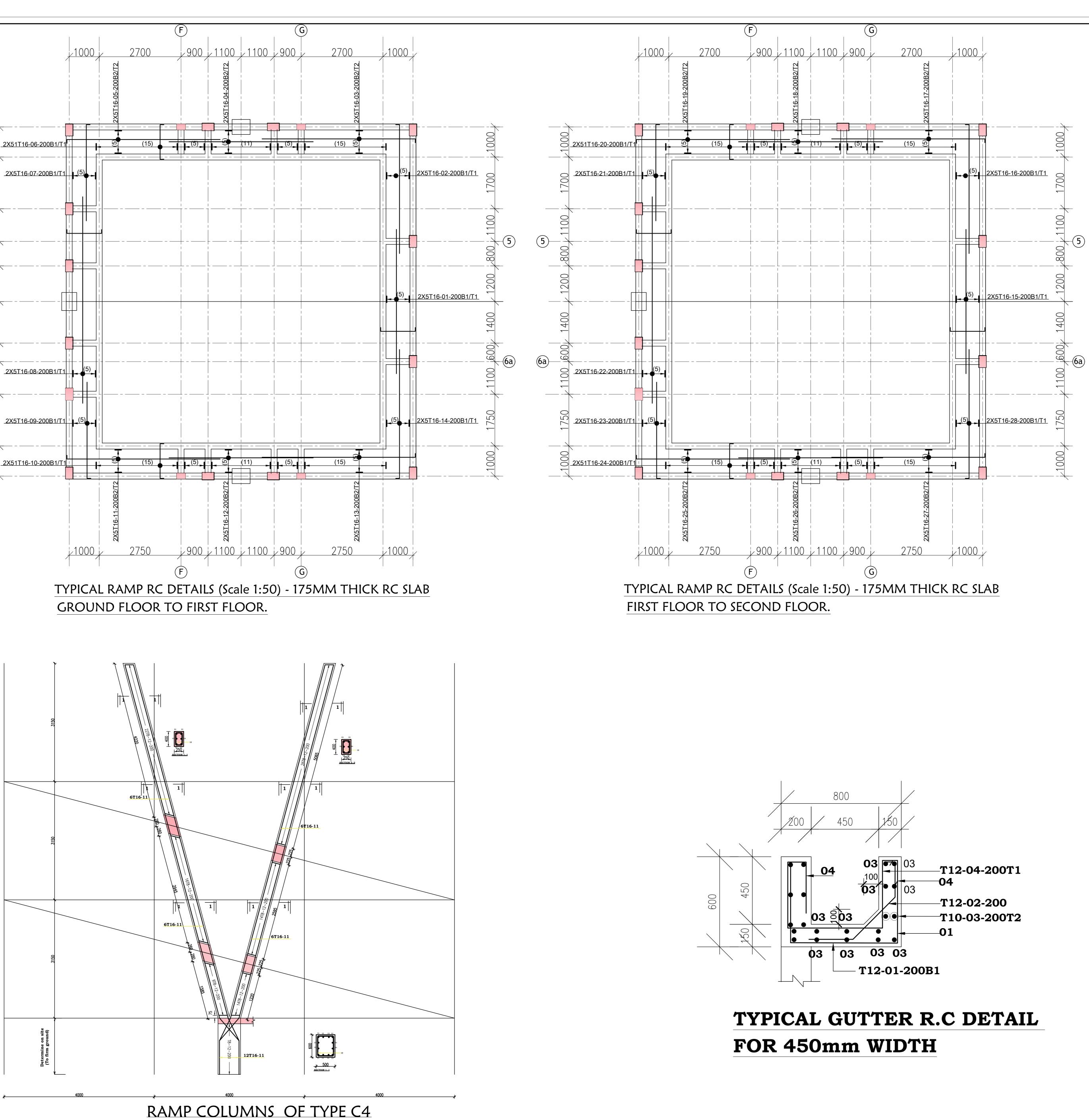
TYPICAL STEEL TRUSS T3 (Scale 1:50)



	NOTES
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x4mm R.H.S	[2] Foundation depth to be determined on site
x3mm S.H.S 0x2mm Zed	[3] Excavations to be inspected before blinding is laid
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	[15] Minimum crushing strength of masonry stones or building blocks to be 7N/mm2
2	[16] All black cotton soil shall be removed during excavation of foundation.
R.H.S	[17] Minimum lap length for all reinforcement bars
S.H.S	shall be 50 x bar diameter
n Zed	
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