



KENYA SCHOOL OF GOVERNMENT
Empowering the Public Service

OPEN NATIONAL TENDER

FOR

**PROPOSED REHABILITATION OF BUILDINGS AT
KENYA SCHOOL OF GOVERNMENT, MOMBASA CAMPUS.**

TENDER NO: KSG/MSA/01/2025-2026

CLOSING DATE: FEBRUARY 10, 2026 AT 11:00AM

PROJECT MANAGER

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DEPARTMENT FOR PUBLIC WORKS
P.O. BOX 42267-0010
NAIROBI REGION.**

ARCHITECT

**REGIONAL ARCHITECT
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INTERIOR DESIGNER

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PROPOSED REHABILITATION OF BUILDINGS AT KENYA SCHOOL OF GOVERNMENT, MOMBASA CAMPUS. TENDER NO: KSG/MSA/01/2025-2026

1. The Kenya School of Government invites sealed tenders from eligible and competent contractors for the Proposed Rehabilitation of Buildings at Kenya School of Government, Mombasa Campus.
2. Interested contractors must be registered with NCA 1 in Building Works and NCA 1 Electrical and Mechanical works as indicated in the tender documents. The Contractor must appear in the current building contractor register.
3. Tendering will be conducted under open competitive tendering method using a standardized tender document and is Open to all eligible bidders.
4. Qualified and interested tenderers may obtain further information and inspect the Tender Documents during office hours 0900 to 1700 hours at the Procurement Office, Kenya School of Government, Lower Kabete Campus.
5. A complete set of tender documents may be purchased or obtained by interested tenders upon payment of a non- refundable fee of KES 1,000/= by M-pesa or Banker's Cheque and payable to the address given below. Tender documents obtained electronically will be free of charge.
6. Tender documents may be viewed and downloaded for free from the website www.ksg.ac.ke or the Government Public Procurement Information Portal www.tenders.go.ke Tenderers who download the tender document must forward their particulars immediately to tenders@ksg.ac.ke to facilitate any further clarification or addendum.
7. All Tenders must be accompanied by a Tender Security in the amount of Kenya Shillings Fifteen Million Only (KES 15,000,000/=) and shall be in the form of an on-demand Bank Guarantee issued by a reputable bank located in Kenya or an Insurance Company approved by Public Procurement Regulatory Authority (PPRA).
8. The Tenderer shall chronologically serialize all pages of the tender documents submitted.
9. A Mandatory pre tender Site visit, shall be held on February 04, 2026 at Kenya School of Government, Mombasa Campus from 8:00am -10:00am and an attendance certificate will be signed by all representatives.
10. Completed tenders must be delivered to the address below on or before February 10, 2026 at 11:00am. Electronic Tenders will not be permitted.
11. Tenders will be opened immediately after the deadline date and time specified

above or any deadline date and time specified later. Tenders will be publicly opened at the address below in the presence of the Tenderers' designated representatives who choose to attend.

Late tenders will be rejected.

The addresses referred to above are:

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

Kenya School of Government

P.O Box 23030-00604, Lower Kabete

13. Physical address for hand Delivery to an office or Tender Box;

Kenya School of Government, Lower Kabete Campus

Administration Block; Ground Floor.

For Enquiries via email; tenders@ksg.ac.ke

14. Address for Submission of Tenders.

Director General

Kenya School of Government

P.O Box 23030-00604, Lower Kabete

Tender Box Located at Administration Block, Ground Floor *on or before February 10, 2026 at 11:00am.*

15. Address for Opening of Tenders.

Kenya School of Government

P.O Box 23030-00604, Lower Kabete

Administration Block on February 10, 2026 at 11:30am.

Name: **Muktar Mohammed**

Designation: **Deputy Director Supply Chain**

Signature:.....

Date: February 02, 2026_____

PART 1 - TENDERING PROCEDURES

SECTION I - INSTRUCTIONS TO

TENDERERS

A GENERAL PROVISIONS

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 “inwriting” 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

2.1 The Procuring Entity requires compliance with the provisions of the Public Procurement and Asset Disposal Act, 2015, Section 62 “Declaration not to engage in corruption”. The tender submitted by a person shall include a declaration that the person shall not engage in any corrupt or fraudulent practice and a declaration that the person or his or her sub-contractors are not debarred from participating in public procurement proceedings.

2.2 The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding collusive practices in contracting. Any tenderer found to have engaged in collusive conduct shall be disqualified and criminal and/or civil sanctions may be imposed. To this effect, Tenders shall be required to complete and sign the “Certificate of Independent Tender Determination” annexed to the Form of Tender.

2.3 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.

2.4 Unfair Competitive Advantage - Fairness and transparency in the tender process require that the firms or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to this tender. To that end, the Procuring Entity shall indicate in the **Data Sheet** and make available to all the firms together with this tender document all information that would in that respect give such firm any unfair competitive advantage over competing firms.

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**.

3.2 Public Officers of the Procuring Entity, their Spouses, Child, Parent, Brothers or Sister. Child, Parent, Brother or Sister of a Spouse, their business associates or agents and firms/organizations in which they have a substantial or controlling interest shall not be eligible to tender or be awarded a contract. Public Officers are also not allowed to participate in any procurement proceedings.

3.3 A Tenderer shall not have a conflict of interest. Any tenderer found to have a conflict of interest shall be disqualified. A tenderer may be considered to have a conflict of interest for the purpose of this tendering process, if the tenderer:

- a) Directly or indirectly controls, is controlled by or is under common control with another tenderer;
- b) Receives or has received any direct or 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 stemming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.

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

3.5 A Tenderer (either individually or as a JV member) shall not participate in more than one Tender, except for permitted alternative tenders. This includes participation as a subcontractor in other Tenders. Such participation shall result in the disqualification of all Tenders in which the firm is involved. 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. A Tenderer shall be deemed to have the nationality of a country if the

Tenderer is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed 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.
- 3.8** 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.
- 3.9** 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 the Charter of the United Nations, Kenya prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.
 - (c) 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 “SECTION I 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 www.nca.go.ke.
- 3.13** The Competition Act of Kenya requires that firms wishing to tender as Joint Venture undertakings which may prevent, distort or lessen competition in provision of services are prohibited unless they are exempt in accordance with the provisions of Section 25 of the Competition Act, 2010. JVs will be required to seek for exemption from the

Competition Authority. Exemption shall not be a condition for tender, but it shall be a condition of contract award and signature. A JV tenderer shall be given opportunity to seek such exemption as a condition of award and signature of contract. Application for exemption from the Competition Authority of Kenya may be accessed from the website www.cak.go.ke.

- 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.

- 4.2** Any goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment shall not be eligible for procurement.

5.0 Tenderer's responsibilities

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

- 5.2** The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine 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 be the tenderer's own expense.

- 5.3** The Tenderer and any of its personnel or agents will be granted permission by the Procuring Entity to enter upon its premises and lands for the purpose of such visit. The Tenderer shall indemnify the Procuring Entity against 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.

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

B. CONTENTS OF TENDER DOCUMENTS

6.0 Sections of Tender Document

- 6.1** The tender document consists of Parts 1, 2, and 3, which includes all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITT 10.

PART 1: Tendering Procedures

Section I – Instructions to Tenderers

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. In case 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.
- 74** 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 The Procuring 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.

8.0 Amendment of Tender Documents

- 8.1 At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the Tender Documents by issuing addenda.
- 8.2 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.
- 8.3 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 ITT 20.3;
- f) **Qualifications:** documentary evidence in accordance with ITT 17 establishing the Tenderer's qualifications to perform 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**.

- 11.2 In addition to the requirements under ITT 11.1, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Tender shall be signed by all members and submitted with the Tender, together with a copy of the proposed JV Agreement. Change of membership and conditions of the JV prior to contract signature will render the tender liable 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 without any alterations to the text, and no substitutes shall be accepted except as provided under ITT 20.3. All blank spaces shall be filled in with the information requested. 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.
- 13.2 When alternative times for completion are explicitly invited, a statement to that effect will be included in the **TDS**, and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.
- 13.3 Except as provided under ITT 13.4 below, Tenderers wishing to offer technical alternatives to the requirements of the Tender Documents must first price the Procuring Entity's design as described in the Tender Documents and shall further provide all information necessary for a complete evaluation of the alternative by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Tenderer with the Winning Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.
- 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 Bill of Quantities shall conform to the requirements specified below.
- 14.2 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Tenderer shall be deemed covered by the rates for other items in the Bill of Quantities and will not be paid for separately by the Procuring Entity. An item not listed in the priced Bill of Quantities shall be assumed to be not included in the Tender, and provided that the Tender is determined substantially responsive notwithstanding this omission, the average price of the item quoted by substantially responsive Tenderers will be added to the Tender price and the equivalent total cost of the Tender so determined will be used for price comparison.

- 14.3** 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.
- 14.5** It will be specified in the **TDS** if the rates and prices quoted by the Tenderer are or are not subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, except in cases where the contract is subject to fluctuations and adjustments, not fixed price. In such a case, the Tenderer shall furnish the indices and weightings for the price adjustment formulae in the Schedule of Adjustment Data and the Procuring Entity may require the Tenderer to justify its proposed indices and weightings.
- 14.6** Where tenders are being invited for individual lots (contracts) or for any combination of lots (packages), tenderers wishing to offer discounts for the award of more than one Contract shall specify in their Tender the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITT 14.4, provided the Tenders for all lots (contracts) are opened at the same time.
- 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.
- 15.2** 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.
- 15.3** 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.
- 17.2** In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract the Tenderer shall provide the information requested in the corresponding information sheets included in Section IV, Tender Forms.
- 17.3** If a margin of preference applies as specified in accordance with ITT 33.1, national 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, a particular contractor or group of contractors qualifies for a margin of preference. Further the information will enable the Procuring Entity identify any actual or potential conflict of interest in relation to the procurement and/or contract management processes, or a possibility of collusion between tenderers, and thereby help to prevent any corrupt influence in relation to the procurement process or contract management.
- 17.5** 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 ownership and control which information 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.
- 17.8** If a tenderer fails to submit the information required by these requirements, its tender will be rejected. Similarly, if the Procuring Entity is unable, after taking reasonable steps, to verify to a reasonable degree the information submitted by a tenderer pursuant to these requirements, then the tender will be rejected.
- 17.9** If information submitted by a tenderer pursuant to these requirements, or obtained by the Procuring Entity (whether through its own enquiries, through notification by the public or otherwise), shows any conflict of interest which could materially and improperly benefit the tenderer in relation to the procurement or contract management process, then:
- i) If the procurement process is still ongoing, the tenderer will be disqualified from the procurement process,
 - ii) if the contract has been awarded to that tenderer, the contract award will be set as (i) depending 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 have committed any criminal offence.

- 17.10** If a tenderer submits information pursuant to these requirements that is incomplete, inaccurate or out-of-date, or attempts to obstruct the verification process, then the consequences of 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 tenderer.

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). A tender 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 may request Tenderers to extend the period of validity of their Tenders. The request and the responses shall be made in writing. If a Tender Security is requested in accordance with ITT 19, it shall also be extended for thirty (30) days beyond the deadline of the extended validity period. A Tenderer may refuse the request without forfeiting its Tender security. A Tenderer granting the request shall not be required or permitted to modify its Tender.

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.

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

- 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.

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

- 19.5** 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) sign the 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.
- 19.8** Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA to debar the Tenderer from participating in public procurement as provided in the law.
- 19.9** The Tender Security or the Tender-Securing Declaration of a JV shall be in the name of the JV that submits the Tender. If the JV has not been legally constituted into a legally enforceable JV at the time of tendering, the Tender Security or the Tender-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITT 4.1 and ITT 11.2.
- 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 original and the 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.
- 20.3** The original and all copies of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Tenderer. This authorization shall consist of a written confirmation as specified in the **TDS** and shall be attached to the Tender. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Tender where entries or amendments have been made shall be signed or initialed by the person signing the Tender.
- 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.
- 20.5** Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Tender.

D. SUBMISSION AND OPENING OF TENDERS

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 an envelope or package or container marked “COPIES”, all required copies of the Tender; and
- c) if alternative Tenders are permitted in accordance with ITT 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.

- 21.2** If an envelope or package or container is not sealed and marked as required, the Procuring Entity will assume no responsibility for the misplacement or premature opening of the Tender. Tenders 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 time also specified in the **TDS**. When so specified in the **TDS**, tenderers shall have the option of submitting their Tenders electronically. Tenderers submitting Tenders electronically shall follow the electronic Tender submission procedures specified in the **TDS**.

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

23.0 Late Tenders

The Procuring Entity shall not consider any Tender that arrives after the deadline for submission of 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 Tender after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITT 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.

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

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**.

25.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelopes with the corresponding Tender shall not be opened but returned to the Tenderer. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Tender opening.

25.3 Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned to the Tenderer. No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Tender opening.

25.4 Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Tender. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Tender opening.

25.5 Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Tenderer and whether there is a modification; the total Tender Price, per lot (contract) if applicable, including any discounts and alternative Tenders; the presence or absence of a Tender Security or Tender-Securing Declaration, if required; and any other details as the Procuring Entity may consider appropriate.

25.6 Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further for evaluation. The Form of Tender and pages of the 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 Entity shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 23.1).

25.8 The Procuring Entity shall prepare minutes of the Tender Opening that shall include, as a minimum: -

- a) the name of the Tenderer and whether there is a withdrawal, substitution, or modification;
- b) the Tender Price, per lot (contract) if applicable, including any discounts;
- c) any alternative Tenders;
- d) the presence or absence of a Tender Security, if new as required;
- e) number of pages of each tender document submitted.

25.9 The Tenderers' representatives who are present shall be requested to sign the minutes. The omission of a Tenderer's signature on the minutes shall not invalidate the contents and effect of the minutes. A copy of the tender opening register shall be distributed to all Tenderers.

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 Tenderers or any other persons not officially concerned with the Tender process until information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 43.
- 26.2 Any effort by a Tenderer to influence the Procuring Entity in the evaluation of the Tenders or Contract award decisions may result in the rejection of its tender.
- 26.3 Notwithstanding 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 a response. Any clarification submitted by a tenderer that is not in response to a request by the Procuring Entity shall not be considered. The Procuring Entity's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the tender shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Procuring Entity in the evaluation of the tenders, in accordance with ITT 31.
- 27.2 If a tenderer does not provide clarifications of its tender by the date and time set in the Procuring Entity's request for clarification, its Tender may be rejected.

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 material deviation, reservation, or omission. A material deviation, reservation, or omission is one that, if accepted, would:
- a) Affect in any substantial way the scope, quality, or performance of the Works specified in the Contract;
 - 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 responsive tenders.

29.3 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.

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, 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 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 as specified 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.

33.2 A margin of preference shall not be allowed unless it is specified so in the TDS.

- 33.3** 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 a specific group of businesses (these groups are Small and Medium Enterprises, Women Enterprises, Youth Enterprises and Enterprises of persons living with disability, as the case 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. In case the Procuring Entity 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.
- 34.3** 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** as can be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Tenderer may be added to the qualifications of the Tenderer.

35. Evaluation of Tenders

- 35.1** The Procuring Entity shall use the criteria and methodologies listed in this ITT and Section III, Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies the Procuring Entity shall determine the Lowest Evaluated Tender in accordance with ITT 40.
- 35.2** To evaluate a Tender, the Procuring Entity shall consider the following:
- a) Price adjustment 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) price adjustment due to quantifiable non material non-conformities in accordance with ITT 30.3; and
 - e) any additional evaluation factors specified in the **TDS** and Section III, Evaluation and Qualification Criteria.
- 35.3** The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be considered in Tender evaluation.
- 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 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 Low Tenders

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.

37.2 In the event of identification of a potentially Abnormally Low Tender, the Procuring Entity shall seek written clarifications from the Tenderer, including detailed price analyses of its Tender price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the Tender document.

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

Abnormally high tenders

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

37.5 In case 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 accept the tender depending on the Procuring Entity's budget considerations.
- ii) If specifications, scope of work and/or conditions of contract are contributory to the abnormally high tender prices, the Procuring Entity shall reject all tenders and may retender for the contract based on revised estimates, specifications, scope of work and conditions of contract, as the case may be.

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.

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

- a) accept the Tender;
- 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.

39.3 An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative determination shall result in disqualification of the Tender, in which event the Procuring Entity shall proceed to the Tenderer who offers a substantially responsive Tender with the next lowest evaluated price to make a similar determination of that Tenderer's qualifications to perform satisfactorily.

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. In case 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.

43.0 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 on 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.

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

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.
- 47.2** Within fourteen (14) days of receipt of the Contract Agreement, the successful Tenderer shall sign, date, and return it to the Procuring Entity.
- 47.3** The written contract shall be entered into within the period specified in the notification of award and before expiry of the tender validity period.

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.
- 48.2** Failure of the successful Tenderer to submit the above-mentioned Performance Security and other documents required in the **TDS** or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the Tenderer offering the next Best Evaluated Tender.
- 48.3** 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 – 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.

ITT Reference	Particulars Of Appendix To Instructions To Tenders
A. General	
ITT 1.1	The name of the contract is: Proposed Rehabilitation of Buildings at Kenya School of Government – Mombasa Campus. The reference number of the Invitation for Tenders is: KSG/MSA/01/2025-2026 The Procuring Entity is: KENYA SCHOOL OF GOVERNMENT
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
ITT 2.4	The firms that provided consultancy services for the contract being tendered for are: STATE DEPARTMENT FOR PUBLIC WORKS, P.O. BOX 42267-00100 NAIROBI
ITT 3.1	The maximum number of members in a Joint Venture (JV) shall be: N/A
B. Contents of Tendering Document	
ITT 7.1	Tenderer will submit any request for clarifications in writing at the Address tenders@ksg.ac.ke to reach the Procuring Entity not later than 7 days prior to the deadline for submission of tenders prescribed by Kenya School of Government. The Procuring Entity shall publish its response at the website www.ksg.ac.ke and tenders.go.ke
ITT 7.2	A pre-arranged pretender site visit <u>shall</u> take place at the following date, time and place: Date: February 04, 2026 Time: 8.00 AM – 10.00AM Place: Kenya School of Government – MOMBASA CAMPUS
ITT 7.3	The Tenderer will submit any questions in writing, to reach the Procuring Entity not later than February 05, 2026
ITT 7.5	The Procuring Entity's website where Minutes of the pre-Tender meeting and the pre-arranged pretender will be published is: www.ksg.ac.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: Kenya School of Government (2) Physical address for hand Courier Delivery to an office or Tender Box: Kenya School of Government, Lower Kabete Campus- Procurement Offices (3) Postal Address: 23030 – 00604, Lower Kabete Contact Person: Muktar Mohamed (4) Contact: 0727496698 (5) Email: Muktar.mohamed@ksg.ac.ke or info@ksg.ac.ke
C. Preparation of Tenders	
ITT 11.1h	The tenderer shall submit the following additional documents in its Tender: 1. Valid Copy of certificate of incorporation/ Registration. (Certified by an advocate) 2. Valid Current Tax Compliance Certificate issued by Kenya Revenue Authority 3. Dully filled, signed and stamped Confidential business questionnaire in the format provided. 4. Valid Copy of Current Single Business permit (Certified by an advocate) 5. Submission of valid CR12 form showing the list of directors /shareholding

ITT Reference	Particulars Of Appendix To Instructions To Tenders
	(issued within the last 1 month) or National Identity Card(s) for Sole Proprietorship/ Partnership 6. Submission of original tender document (including supportive document) properly TAPE BOUND and paginated in the correct sequence and all pages must be initialed/signed/stamped. <u>NB: Spiral Binding and use of Spring or Box Files will not be allowed and will result in automatic disqualification.</u> 7. Letter of authority to seek references from the Tenderer's bankers. 8. Provide proof of Power of attorney. 9. Submit certified copies of Audited accounts (Signed by Auditors and directors) for the last three (3) years (2022, 2023, 2024) (Certified by an advocate)
ITT 13.1	Alternative tenders Shall Not be considered.
ITT 13.2	Alternative times for completion Shall Not permitted.
ITT 13.4	Alternative technical solutions shall be permitted for the following parts of the Works: Not Applicable
ITT 14.5	The prices quoted by the Tenderer Shall Not be subject to adjustment during the performance of the Contract.
ITT 15.2(a)	Foreign currency requirements not allowed .
ITT 18.1	The Tender validity period shall be 175 days.
ITT 18.3	(a) The Number of days beyond the expiry of the initial tender validity period will be 30 days.
ITT 19.1	Tender-Security in the format indicated in the invitation to tender shall be required Tender Security shall be in the amount of Kenya Shillings Two Hundred and Fifty Thousand Shillings Only (KES 15,000,000/=) and shall be in the form of an on-demand Bank Guarantee issued by a reputable bank located in Kenya or an insurance company approved by PPRA and valid for 210 days.
ITT 20.1	In addition to the original of the Tender, the number of copies is: One
ITT 20.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of: Power of Attorney
	D. Submission and Opening of Tenders
ITT 22.1	For <u>Tender submission purposes</u> only, the Procuring Entity's address is: Director General Kenya School of Government P.O Box 23030-00604, Lower Kabete Tender Box Located at Administration Block on or before <u>FEBRUARY 10, 2026 at 11:00am.</u> The deadline for Tender submission is: on or before <u>FEBRUARY 10, 2026 at 11:00am.</u> Tenderers shall not have the option of submitting their Tenders electronically.
ITT 25.1	The Tender opening shall take place at: Kenya School of Government P.O Box 23030-00604, Lower Kabete <u>February 10, 2026 at 11:30am.</u>
ITT 25.1	If Tenderers are allowed to submit Tenders electronically, they shall follow the electronic tender submission procedures: <u>Electronic Tenders Not Allowed</u>
	E. Evaluation and Comparison of Tenders
ITT 30.3	The adjustment shall be based on the <i>"average"</i> price of the item or component as quoted in other substantially responsive Tenders. If the price of the item or component cannot be derived from the price of other substantially responsive

ITT Reference	Particulars Of Appendix To Instructions To Tenders
	Tenders, the Procuring Entity shall use its best estimate.
ITT 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. No Foreign Currencies shall be allowed.
ITT 33.2	A margin of preference and/or reservation shall not apply
ITT 33.4	The invitation to tender is extended to all eligible bidders
ITT 34.1	At this time, the Procuring Entity <i>does not intend to</i> execute certain specific parts of the Works by subcontractors selected in advance.
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 parts of the Works to be subcontracted along with complete details of the subcontractors and their qualification and experience.
ITT 34.3	The parts of the Works for which the Procuring Entity permits Tenderers to propose Specialized Subcontractors are designated as follows: 1. Electrical Works with attached specifications 2. Mechanical Works with attached specifications 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	Additional requirements apply. These are detailed in the evaluation criteria in Section III, Evaluation and Qualification Criteria in addition to those indicated under ITT 11.1
ITT 48.1	Other documents required in addition to the Performance Security are: INSURANCE CERTIFICATES
ITT 50.1	The procedures for making a Procurement-related Complaint are detailed in the "Notice of Intention to Award the Contract" herein and are also available from the PPRA Website www.ppra.go.ke. 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 email or fax), to: For the attention: <i>[insert full name of person receiving complaints]</i> Title/position: <i>[insert title/position]</i> Procuring Entity: <i>[insert name of Procuring Entity]</i> Email address: <i>[insert email address]</i> In summary, a Procurement-related Complaint may challenge any of the following: the terms of the Tendering Documents; and the Procuring Entity's decision to award the contract.

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

1.0 GENERAL PROVISIONS

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

12 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.

1.	MANDATORY REQUIREMENTS MR	PASS/FAIL
MR1	Certificate of Incorporation/ Registration from the Registrar of Companies/ Businesses certified by an advocate and commissioner of oaths.	
MR2	CR12 for Main contractors issued not earlier than 1 month from tender opening date (attach copies of directors' IDs) certified by an advocate and commissioner of oaths.	
MR3	Current Category of Registration with National Construction Authority (NCA) in the relevant trade; (NCA 1 Building Works, Mechanical and Electrical works) Certified by an advocate and commissioner of oaths.	
MR4	Current annual practicing Licenses with NCA matching the registration category; certified by an advocate and commissioner of oaths.	

MR5	Valid Type Approvals from Communications Authority of Kenya (CAK) Server, Firewall, Router, Switches, PABX, Access points, desk phones certified by an advocate and commissioner of oaths.	
MR6	Submit tender security in the amount of Kenya Shillings Fifteen Million Only (KES 15,000,000/=) in the form of an on-demand bank guarantee issued by a reputable bank located in Kenya or Insurance Company approved by PPRA. Addressed and bound to the Kenya School of Government, valid for 210 days from the date of tender opening.	
MR7	Duly filled, stamped and signed form of tender as per format provided.	
MR8	Dully filled, signed and stamped certificate of independent tender determination in the format provided	
MR9	Copy of Valid, Relevant and Current Business Permit certified by an advocate and commissioner of oaths.	
MR10	Copy of Valid Tax Compliance Certificate issued by Kenya Revenue Authority (to be verified on TCC checker) certified by an advocate and commissioner of oaths.	
MR11	Duly filled, stamped and signed confidential business questionnaire in the format provided.	
MR12	CR12 not issued earlier than 1 month from tender opening date (attach copies of National Identity card of listed Directors/Shareholders) and national ID for sole proprietors	
MR13	Main Contractor shall attach dully signed and stamped pre-contract agreement to work together with the Domestic Sub-Contractors (AGPO Youth) – Provide copy of valid AGPO certificate certified by an advocate and commissioner of oaths.	
MR14	Duly filled, signed and stamped Tender Declaration Forms (SD1 & SD2)	
MR15	Submit certified Audited Accounts for the year, 2024, 2023, 2022 and also submit ICPAK License for the Auditor	
MR16	Provide proof of power of attorney certified by an advocate and commissioner of oaths.	
MR17	Copy of current Licenses with Energy and Petroleum Regulatory Authority (EPRA) - Class A-1 certified by an advocate and commissioner of oaths.	
MR18	Copy of valid Registration License from Communication Authority of Kenya (CAK) as Telecommunication contractor certified by an advocate and commissioner of oaths.	
MR19	Copy of valid Compliance Certificate from Communication Authority of Kenya (CAK) as Telecommunication contractor; certified by an advocate and commissioner of oaths.	
MR20	Manufacture's authorization for active components in; Firewall, Routers, Switches, PABX, Access points, desk phones	
MR21	Duly Filled, stamped and signed pre-tender site visit form by both Employer and Engineer, quantity Surveyor or Architect Representing the Bidder	
MR22	Bid MUST be submitted in the format required by the procuring entity – the tender document to be TAPE/BOOK BOUND and returned in the order and pages provided in the advertisement to tender, initialed on each page and paginated in the sequential format of 1, 2, 3, 4 including	

	attachments. (Spiral Binding and use of Spring or box files will not be accepted and will lead to automatic disqualification)	
NB: - Bidders must meet all the mandatory requirements to qualify for technical evaluation. Note: The bidders' who do not satisfy any of the above requirements shall be considered non-responsive and their tenders will not be evaluated further		

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

Note:

The bid security shall be in accordance with the following notes:-

- **(A)** *The tenderer shall furnish as part of his tender a tender surety in the amount as stated in the tender document on the Appendix to Instructions to Tenderers”.*
- **(B)** *The unconditional Tender surety shall be in Kenya shillings and be in form of a certified cheque, bank draft, an irrevocable letter of credit or a guarantee from a reputable Bank/ Insurance approved by PPRA located in the Republic of Kenya. The format of the surety shall be in accordance with the sample form included in the tender documents and the tender surety shall be valid for **210 days** from the date of tender opening”.*
- **(C)** *A substantially responsive tender is one which conforms to all terms and condition and specifications of the tender document without material deviation or reservation and has a valid Bank/Insurance guarantee”.*

Preliminary evaluation criteria for the proposed specialist works listed under ITT 34.3 to be as contained in the **bills of quantities and specifications**

STAGE 2: TECHNICAL EVALUATION

The tender document shall be examined based on clause 11.1 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;

- 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 desired*
- b) *document on the Appendix to Instructions to Tenderers”.*
 - **(B)** *The unconditional Tender surety shall be in Kenya shillings and be in form of a certified cheque, bank draft, an irrevocable letter of credit or a guarantee from a reputable Bank/ Insurance approved by PPRA located in the Republic of Kenya. The format of the surety shall be in accordance with the sample form included in the tender documents and the tender surety shall be valid for **150 days** from the date of tender opening”.*
 - **(C)** *A substantially responsive tender is one which conforms to all terms and condition and specifications of the tender document without material deviation or reservation and has a valid Bank/Insurance guarantee”.*

*Preliminary evaluation criteria for the proposed specialist works listed under ITT 34.3 to be as contained in the **bills of quantities and specifications***

The award of points for the **STANDARD FORMS** considered in this section shall be as shown below:

PARAMETER MAXIMUM POINTS

(i)	Business Questionnaire Form-----	5
(i)	Key personnel -----	20

(ii) Contract Completed in the last Five (5) years-----	20
(iii) Schedules of on-going projects -----	8
(iv) Schedules of contractor's equipment-----	20
(v) Audited Financial Report for the last 3 years-----	10
(vi) Evidence of Financial Resources -----	15
(viii) Litigation History	2
TOTAL	<u>100</u>

The detailed scoring plan shall be as shown in table1 below: -

Table A: Assessment for Eligibility Criteria

	MANDATORY REQUIREMENT	MAX.
I	Business Questionnaire Form • Completely filled ----- 5 • Not filled ----- 0	5
li	Key Personnel (Attach evidence)	
	Director of the firm Holder of degree/diploma in relevant Engineering field- 6 Holder of certificate in relevant Engineering field----- 4 Holder of trade test certificate in relevant Engineering field - 2 No relevant certificate ----- 1	6
	At least 1No. degree/diploma holder of key personnel in relevant field • With over 10 years relevant experience ----- 6 • With over 5 years relevant experience----- 4 • With under 5 years relevant experience ----- 2	6
	At least 1No certificate holder of key personnel in relevant field • With over 10 years relevant experience----- 4 • With over 5 years relevant experience ----- 3 • With under 5 years relevant experience -----1	4
	At least 2No artisan (trade test certificate in relevant field) • Artisan with over 10 years relevant experience ----- 2 • Artisan with under 10 years relevant experience ----- 1 • Non skilled worker with over 10 years relevant experience- 1	4
lii	Contract completed in the last five (5) years (Max of 4No. Projects)- Provide Evidence (certificates of practical completion, certificates of making good defects) • Project of similar nature, complexity or magnitude ----- 5 • Project of similar nature but of lower value than the one in consideration ----- 3 • No completed project of similar nature -----0	20
iv	On-going projects including sub contracts – Provide Evidence (Award letter and Contract Agreement) No project of similar nature, complexity and magnitude (Attach Proof)-----8 Three and below Projects of similar, nature complexity & magnitude - 5 Four and above Projects of similar nature, complexity and magnitude - 1	8
V	Schedule of contractors equipment and transport (proof or evidence of ownership/Lease) a) Relevant Transport (Pick-ups, Vans etc.)	10

	- Means of transport (At least 5 @ 2 Marks each) ----- 10 - No means of transport ----- 0	
	b) Relevant Equipment i.e. Concrete mixer, Trucks, Lorries etc. (At least 5 @ 2 Marks each) - Has relevant equipment for work being tendered ----- 10 - No relevant equipment for work being tendered ----- 0	10
	Financial report -Main Contractor	
Vi	a) Audited financial report (last three (3) years, 2024, 2023 & 2022) - Average Annual Turn-over equal to or greater than the cost of the project ----- 10 - Average Annual Turn-over above 50% but below 100% of the cost of the project ----- 6 - Average Annual Turn-over below 50% of the cost of the project -- 3	10
	b) Evidence of Financial Resources (cash in hand, lines of credit, overdraft facility etc) - Has financial resources to finance the projected monthly cash flow* for three months ----- 15 - Has financial resources equal to the projected monthly cash flow* -- 10 - Has financial resources less the projected monthly cash flow* -- 5 - Has not indicated sources of financial resources ----- 0	15
Vii	Litigation History *Litigation history shall be in form of a sworn affidavit from a commissioner of oaths (Not more than six (6) months old) - Duly Filled ----- 2 - Not filled ----- 0	2
	CUT OFF SCORE 80 POINTS BIDDER'S SCORE	100

The pass-mark under the Technical Evaluation is 80 percent. Any bidder who scores below the pass mark will be considered non responsive

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

STAGE 3 - FINANCIAL EVALUATION

Upon completion of the technical evaluation a detailed financial evaluation for the bidder (and all their joint venture partners) shall follow.

(The financial evaluation shall proceed in the manner described in the Public Procurement and Disposal Act (2015) of the laws of Kenya and the Public Procurement and Disposal Regulations, 2020 specifically section 77.

The evaluation shall be in three stages

- Determination of Arithmetic Errors for the bidder (and all their joint venture partners);
- Comparison of Rates for the bidder (and all their joint venture partners); and
- Consistency of the Rates for the bidder (and all their joint venture partners);

A) Determination of the Arithmetic Errors

Arithmetic Errors will be corrected by the Procuring Entity as follows:

- In the event of a discrepancy between the amount as stated in the form of Tender and the corrected tender figure in the Main summary of the Bills of Quantities, the amount as stated in the Form of tender shall prevail. Pursuant to Section 82 of the Public Procurement and Asset Disposal Act 2015, 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;
- Error correction factor shall be computed by expressing the difference between the amount and the corrected tender sum as a percentage of the corrected contract works

- iii) The Error correction factor shall be applied to all contract works (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuations of variations.

B) Comparison of rates for the bidder

Items that are underpriced or overpriced may indicate potential for non-delivery and front loading respectively. The committee shall promptly write to the tenderer asking for detailed breakdown of costs for any of the quoted items, relationship between those prices, proposed construction/installation methods and schedules.

The evaluation committee shall evaluate the responses and make an appropriate recommendation to the procuring entity's tender committee giving necessary evidence. Such recommendations may include but not limited to:

- a) Recommend no adverse action to the tenderer after a convincing response;
- b) Employer requiring that the amount of the performance bond be raised at the expense of the successful tenderer to a level sufficient to protect the employer against potential financial losses;
- c) Recommend non-award based on the response provided and the available demonstrable evidence that the scope, quality, completion timing, administration of works to be undertaken by the tenderer, would adversely be affected or the rights of the employer or the tenderers obligations would be limited in a substantial way.

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 -RECOMMENDATION FOR AWARD

Award Criteria:

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

POST QUALIFICATION CRITERIA- DUE DILIGENCE

Particulars of post – qualification if applicable. The Client, Kenya School of Government may inspect the premises and under due diligence to seek further clarification/confirmation, if necessary, 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. The following may be verified:

1. Verify physical address
2. Verify works done (signed contracts, award letters and completion certificates)
3. Verify ongoing projects if any
4. Verify transport requirements if any
5. Verify any other document that may be deemed necessary.

QUALIFICATION FORM

S/No	Qualification Subject	Qualification Requirement	Document to be Completed	Qualification Met/ Not Met
1	Nationality	Nationality in accordance with ITT 3.6	Forms ELI – 1.1 and 1.2, with attachments	
2	Tax Obligations for Kenyan Tenderers	Has produced a current tax clearance certificate or tax exemption certificate issued by Kenya Revenue Authority in accordance with ITT 3.14.	Attachment	
3	Conflict of Interest	No conflicts of interest in accordance with ITT 3.3	Form of Tender	
4	PPRA Eligibility	Not having been declared ineligible by the PPRA as described in ITT 3.7	Form of Tender	
5	State- owned Enterprise	Meets conditions of ITT 3.8	Forms ELI – 1.1 and 1.2, with attachments	
6	Goods, equipment and services to be supplied under the contract	To have their origin in any country that is not determined ineligible under ITT 4.1	Forms ELI – 1.1 and 1.2, with attachments	
7	History of Non-Performing Contracts	Non-performance of a contract did not occur as a result of contractor default since 1 st January [.....].	Form CON-2	
8	Suspension Based on Execution of Tender/Proposal Securing Declaration by the Procuring Entity	Not under suspension based on execution of a Tender/Proposal Securing Declaration pursuant to ITT 19.9	Form of Tender	
9	Pending Litigation	Tender's financial position and prospective long-term profitability still sound according to criteria established in 3.1 and assuming that all pending litigation will NOT be resolved against the Tenderer.	Form CON – 2	
10	Litigation History	No consistent history of court/arbitral award decisions against the Tenderer since 1 st January <i>[insert year]</i> .	Form CON – 2	
11	Financial Capabilities	(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 requirements estimated as Kenya Shillings <i>[insert amount]</i> equivalent for the subject contract(s) net of the Tenderer's other commitments.	Form FIN – 3.1, with attachments	

		(ii) The Tenderers shall also demonstrate, to the satisfaction of the Procuring Entity, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments. (iii) The audited balance sheets or, if not required by the laws of the Tenderer's country, other financial statements acceptable to the Procuring Entity, for the last <i>[insert number of years]</i> years shall be submitted and must demonstrate the current soundness of the Tenderer's financial position and indicate its prospective long-term profitability.		
12	Average Annual Construction Turnover	Minimum average annual construction turnover of Kenya Shillings <i>[insert amount]</i> , equivalent calculated as total certified payments received for contracts in progress and/or completed within the last <i>[insert of year]</i> years, divided by <i>[insert number of years]</i> years	Form FIN – 3.2	
13	General Construction Experience	Experience under construction contracts in the role of prime contractor, JV member, sub-contractor, or management contractor for at least the last <i>[insert number of years]</i> years, starting 1 st January <i>[insert year]</i> .	Form EXP – 4.1	
14	Specific Construction & Contract Management Experience	A minimum number of <i>[state the number]</i> similar contracts specified below that have been satisfactorily and substantially completed as a prime contractor, joint venture member, management contractor or sub-contractor between 1st January <i>[insert year]</i> and tender submission deadline i.e. (number) contracts, each of minimum value Kenya shillings..... equivalent. <i>[In case the Works are to be tender as individual contracts under multiple contract procedure, the minimum number of contracts required for purposes of evaluating qualification shall be selected</i>	Form EXP 4.2(a)	

		<i>from the options mentioned in ITT 35.4]</i> The similarity of the contracts shall be based on the following: <i>[Based on Section VII, Scope of Works, specify the minimum key requirements in terms of physical size, complexity, construction method, technology and/or other characteristics including part of the requirements that may be met by specialized subcontractors, if permitted in accordance with ITT 34.3]</i>		

SECTION IV - TENDERING FORMS

QUALIFICATION FORMS:

1.FOREIGN TENDERER'S 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
A	Local Labor			
1				
2				
3				
4				
5				
B	Sub contracts from Local sources			
1				
2				
3				
4				
5				
C	Local materials			
1				
2				
3				
4				
5				
D	Use of Local Plant and Equipment			
1				
2				
3				
4				
5				
E	Add any other items			
1				
2				
3				
4				
5				
6				
	TOTAL COST LOCAL CONTENT			
	PERCENTAGE OF CONTRACT PRICE			

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 for alternative equipment proposed by the Tenderer.

Item of equipment		
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 ☐ Leased ☐ Specially manufactured	
	Omit the following information for equipment owned by the Tenderer.	
Owner	Name of Owner: Address of Owner: Telephone Number:	
Agreements	Details of rental / lease / manufacture agreements specific to the project	

3.FORM PER -1:

Contractor's Representative and Key Personnel Schedule

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

4.FORM PER -2:

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

Name of Tenderer:		
Position [# 1]: <i>[title of position from Form PER-1]</i>		
Personnel information	Name:	Date of birth:
	Address:	E-mail:
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency: <i>[language and levels of speaking, reading and writing skills]</i>	
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
<i>[main project details]</i>	<i>[role and responsibilities on the project]</i>	<i>[time in role]</i>	<i>[describe the experience relevant to this position]</i>

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:	<i>[insert period (start and end dates) for which this Contractor’s Representative or Key Personnel is available to work on this contract]</i>
Time commitment:	<i>[insert period (start and end dates) for which this Contractor’s Representative or Key Personnel is available to work on this contract]</i>

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:

Name: _____

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Tenderer:

Signature: _____

Date: (day month year): _____

5.TENDERER'S 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 Information Form

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: <i>[indicate country of Constitution]</i>
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 and a list of Board of Directors

5.2 FORM ELI – 1.2

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

Date:

ITT No and Title:

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 or association), and/or registration documents of the legal entity named above, in accordance with ITT 3.6. ☐ In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Procuring Entity, in accordance with ITT 3.5. 2. Included are the organizational chart and a list of Board of Directors.

5.3 FORM CON – 2

Historical Contract Non-Performance, Pending Litigation and Litigation History

Tenderer's Name: _____

Date: _____

JV Member's Name _____

ITT No. and title: _____

Non-Performed Contracts in accordance with Section III, Evaluation and Qualification Criteria			
☐ Contract non-performance did not occur since 1 st January <i>[insert year]</i> specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 2.1.			
☐ Contract(s) not performed since 1 st January <i>[insert year]</i> specified in Section III, Evaluation and Qualification Criteria, requirement 2.1			
☐ Contract(s) withdrawn since 1 st January <i>[insert year]</i> 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)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Procuring Entity: <i>[insert full name]</i> Address of Procuring Entity: <i>[insert street/city/country]</i> Reason(s) for nonperformance: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
Pending Litigation, in accordance with Section III, Evaluation and Qualification Criteria			
☐ No pending litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.3.			
☐ Pending litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.3 as indicated 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: _____	

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:	
Litigation History in accordance with Section III, Evaluation and Qualification Criteria			
☐ 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.			
<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: <i>[indicate complete contract name, number, and any other identification]</i> Name of Procuring Entity: <i>[insert full name]</i> Address of Procuring Entity: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Procuring Entity" or "Contractor"]</i> Reason(s) for Litigation and award decision <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>

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

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.

☐ 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 FORM FIN – 3.2

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
<i>[indicate year]</i>	<i>[insert amount and indicate currency]</i>		
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

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 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 Year	Ending Year	Contract Identification	Role of Tenderer
		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			
If member in a JV or sub-contractor, specify participation in total Contract amount				
Procuring Entity's Name:				
Address:				
Telephone/fax number				
E-mail:				
Description of the similarity in accordance with Sub-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 (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 ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount			Kenya Shilling	
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity in the contract (i)	Percentage participation (ii)	Actual Quantity Performed (i) × (ii)	
Year 1				
Year 2				
Year 3				
Year 4				
Procuring Entity's Name:				
Address: Telephone/fax number E-mail:				

OTHER FORMS

6.0 FORM OF TENDER

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

INSTRUCTIONS TO TENDERERS

The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address.

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

Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION OF THE TENDERER attached to this Form of Tender.

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

Tender submission] **Tender** **Name** **and**

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

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

To: *[Insert complete name of Procuring Entity]*

Dear Sirs,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct and complete the Works and remedy any defects therein for the sum² of Kenya Shillings *[Amount in figures]* _____ Kenya Shillings *[amount in words]* _____

The above amount includes foreign currency³ 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 adhere by this tender until _____ *[Insert date]*, and it shall remain binding upon us and may be accepted at any time before that date.
4. 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:

² *This sum should be carried forward from the Summary of the Bills of Quantities.*

³ *The percentage quoted above should not include provisional sums, and not more than two foreign currencies are allowed.*

- i. **No reservations:** We have examined and have no reservations to the Tendering document, including Addenda issued in accordance with Instructions to tenderers (ITT 7);
- ii. **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITT 3;
- iii. **Tender/Proposal-Securing Declaration:** We have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing Declaration or Proposal-Securing Declaration in Kenya in accordance with ITT 3.6;
- iv. **Conformity:** We offer to supply in conformity with the Tendering document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: *[insert a brief description of the Goods and Related Services]*;
- v. **Tender Price:** The total price of our Tender, excluding any discounts offered in item (f) below is:
- vi. Option 1, in case of one lot: Total price is: *[insert the total price of the Tender in words and figures, indicating the various amounts and the respective currencies]*;or

Option 2, in case of multiple lots: (a) Total price of each lot *[insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]*; and (b) Total price of all lots (sum of all lots) *[insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies]*;
- vii. **Discounts:** 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 are shown below: *[Specify in detail the method that shall be used to apply the discounts]*;
- x. **Tender Validity Period:** Our Tender shall be valid for the period specified in TDS 17.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 21.1 (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. **Performance Security:** If our Tender is accepted, we commit to obtain a performance security in accordance with the Tendering document;
- xii. **One Tender per tenderer:** We are not submitting any other Tender(s) as an individual tenderer, and we are not participating in any other Tender(s) as a Joint Venture member, or as a subcontractor, and meet the requirements of ITT 3.9, other than alternative Tenders submitted in accordance with ITT 12;
- xiii. **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the

Procuring Entity. Further, we are not ineligible under the Kenya laws or official regulations or pursuant to a decision of the United Nations Security Council;

xiv. **State-owned enterprise or institution:** *[select the appropriate option and delete the other] [We are not a state- owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of ITT 3.7];*

xv. **Commissions, gratuities, fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Tendering process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount

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

xvi. **Binding Contract:** We understand that this Tender, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;

xvii. **Procuring Entity Not Bound to Accept:** We understand that you are not bound to accept the lowest evaluated cost Tender, the Best Evaluated Tender or any other Tender that you may receive; and

xviii. **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption.

xix. **Code of Ethical Conduct:** 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.

xx. **Collusive practices:** We hereby certify and confirm that the tender is genuine, non-collusive and made with the intention of accepting the contract if awarded. To this effect we have signed the “Certificate of Independent tender Determination” attached below.

xxi. We, the Tenderer, have completed fully and signed the following Forms as part of our Tender:

- Tenderer's Eligibility; Confidential Business Questionnaire – to establish we are not in any conflict to interest.
- Certificate of Independent Tender Determination – to declare that we completed the tender without colluding with other tenderers.
- Self-Declaration of the Tenderer – to declare that we will, if awarded a contract, not engage in any form of fraud and corruption.
- 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 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]

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]

*: In the case of the Tender submitted by a 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. The power of attorney shall be attached with the Tender Schedules.

(a) TENDERER'S ELIGIBILITY-CONFIDENTIAL BUSINESS QUESTIONNAIRE

Instruction to Tenderer

Tenderer is instructed to complete the particulars required in this Form, *one form for each entity if Tenderer is a JV.*

Tenderer is further reminded that it is an offence to give false information on this Form.

(a) Tenderer's details

No	Item	Description
1	Name of Procuring Entity	
2	Reference Number of Tender	
3	Date & Time of Tender Opening	
4	Name of Tenderer	
5	Full Address & Contact Details of Tenderer	1.Country 2.City 3.Location 4.Building 5.Floor 6.Postal Address 7.Name & Email Address of Contact Person
6	Current Trade License Registration Number & Expiring Date	
7	Name, Country, 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 Tenderer Handles	
10	State if Tenderer is listed on the stock exchange, give name and full address (Postal and physical addresses, email and telephone number) and 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.

	Name of Partners	Nationality	Citizenship	Shares Owned
1				
2				
3				

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

Private or public Company

State the nominal and issued capital of the Company

Nominal Kenya Shillings (Equivalent).....

Issued Kenya Shillings (Equivalent).....

Give details of Directors as follows.

	Name of Directors	Nationality	Citizenship	Shares Owned
1				
2				
3				

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

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.

	Name of Person	Designation in the Procuring Entity	Interest/Relationship with Tenderer

Conflict of interest disclosure

	Type of Conflict	Disclosure (Yes or No)	If Yes provide details of the relationship with tenderer
1	Tenderer is directly or indirectly controls, is controlled by or is under common control with another tenderer.		
2	Tenderer receives or has received any direct or indirect subsidy from another tenderer		
3	Tenderer has the same legal representative as another tenderer		

4	Tender has a relationship with another tenderer, directly or through common a third party that puts it in a position to influence the tender of another tenderer, or influence the decisions of the Procuring Entity regarding this tendering process.		
5	Any of the Tenderer's affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the tender.		
6	Tenderer would be providing goods, works, non-consulting services or consulting services during implementation of the contract Specified in this Tender Document.		
7	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract.		
8	Tenderer has a close business or family relationship with a professional staff of the Procuring Entity who would be involved in the implementation or supervision of the 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 _____

Title or Designation _____

(Signature)

(Date)

(b) CERTIFICATE OF INDEPENDENT TENDER DETERMINATION

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

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

I have read and I understand the contents of this Certificate;

I understand that the Tender will be disqualified if this Certificate is found not to be true and complete in every respect;

I am the authorized representative of the Tenderer with authority to sign this Certificate, and to submit the Tender on behalf of the Tenderer;

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:

has been requested to submit a Tender in response to this request for tenders;

could potentially submit a tender in response to this request for tenders, based on their qualifications, abilities or experience;

The Tenderer discloses that [check one of the following, as applicable]:

The Tenderer has arrived at the Tender independently from, and without consultation, communication, agreement or arrangement with, any competitor;

the Tenderer has entered into consultations, communications, agreements or arrangements with one or more competitors regarding this request for tenders, and the Tenderer discloses, in the attached document(s), complete details thereof, including the names of the competitors and the nature of, and reasons for, such consultations, communications, agreements or arrangements; In particular, without limiting the generality of paragraphs (5)(a) or (5)(b) above, there has been no consultation, communication, agreement or arrangement with any competitor regarding: prices;

methods, factors or formulas used to calculate prices;

the intention or decision to submit, or not to submit, a tender; or

the submission of a tender which does not meet the specifications of the request for Tenders; except as specifically disclosed pursuant to paragraph (5)(b) above;

In addition, there has been no consultation, communication, agreement or arrangement with any competitor regarding the quality, quantity, specifications or delivery particulars of the works or services to which this request for tenders relates, except as specifically authorized by the procuring authority or as specifically disclosed pursuant to paragraph (5)(b) above;

the terms of the Tender have not been, and will not be, knowingly disclosed by the Tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening, or of the awarding of the Contract, whichever comes first, unless otherwise required by law or as specifically disclosed pursuant to paragraph (5)(b) above.

Name:

Title:

Date:

Signature:

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

(c) SELF-DECLARATION FORMS

FORM SD1

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

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

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

THAT the aforesaid Bidder, its Directors and subcontractors have not been debarred from participating in procurement proceeding under Part IV of the Act.

THAT what is deponed to herein above is true to the best of my knowledge, information and belief.

.....
(Title)

.....
(Signature)

.....
(Date)

Bidder Official Stamp

FORM SD2

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

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

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

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

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

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

THAT what is deponed to herein 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 Procurement and Asset
Disposal and my responsibilities under the Code.

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

Name of Authorized signatory.....

Sign.....

Position.....

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

E-mail.....

Name of the Firm/Company.....

Date.....

(Company Seal/ Rubber Stamp where applicable)

Witness

Name

Sign.....

Date.....

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

- 2.1 The Government of Kenya requires that all parties including Procuring Entities, Tenderers, (applicants/proposers), Consultants, Contractors and Suppliers; any Sub-contractors, Sub-consultants, Service providers or Suppliers; any Agents (whether declared or not); and any of their Personnel, involved and engaged in procurement under Kenya's Laws and Regulation, observe the highest standard of ethics during the procurement process, selection and contract execution of all contracts, and refrain from Fraud and Corruption and fully comply with Kenya's laws and Regulations as per paragraphs 1.1 above.
- 2.2 Kenya's public procurement and asset disposal act (*no. 33 of 2015*) under Section 66 describes rules to be followed and actions to be taken in dealing with Corrupt, Coercive, Obstructive, Collusive or Fraudulent practices, and Conflicts of Interest in procurement including consequences for offences committed. A few of the provisions noted below highlight Kenya's policy of no tolerance for such practices and behavior:
- 1) a person to whom this Act applies shall not be involved in any corrupt, coercive, obstructive, collusive or fraudulent practice; or conflicts of interest in any procurement or asset disposal proceeding;
 - 2) A person referred to under subsection (1) who contravenes the provisions of that sub-section commits an offence;
 - 3) Without limiting the generality of the subsection (1) and (2), the person shall be—
 - a) disqualified from entering into a contract for a procurement or asset disposal proceeding; or
 - b) if a contract has already been entered into with the person, the contract shall be voidable;
 - 4) The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedy the procuring entity may have;
 - 5) An employee or agent of the procuring entity or a member of the Board or committee of the procuring entity who has a conflict of interest with respect to a procurement:-
 - a) shall not take part in the procurement proceedings;
 - b) shall not, after a procurement contract has been entered into, take part in any decision relating to the procurement or contract; and
 - c) shall not be a subcontractor for the bidder to whom was awarded contract, or a member of the group of bidders to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.
 - 6) An employee, agent or member described in subsection (1) who refrains from doing anything prohibited under that subsection, but for that

subsection, would have been within his or her duties shall disclose the conflict of interest to the procuring entity;

- 7) If a person contravenes subsection (1) with respect to a conflict of interest described in subsection (5)(a) and the contract is awarded to the person or his relative or to another person in whom one of them had a direct or indirect pecuniary interest, the contract shall be terminated and all costs incurred by the public entity shall be made good by the awarding officer. Etc.

2.3 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 set forth below as follows:
 - i) "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii) "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - iii) "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - iv) "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - v) "obstructive practice" is:
 - deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede investigation by Public Procurement Regulatory Authority (PPRA) or any other appropriate authority appointed by Government of Kenya into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - acts intended to materially impede the exercise of the PPRA's or the appointed authority's inspection and audit rights provided for under paragraph 2.3 e. below.

- b) Defines more specifically, in accordance with the above procurement Act provisions set forth for fraudulent and collusive practices as follows:

"fraudulent practice" includes a misrepresentation of fact in order to influence a procurement or disposal process or the exercise of a contract to the detriment of the procuring entity or the tenderer or the contractor, and includes collusive practices amongst tenderers prior to or after tender submission designed to establish tender prices at artificial non-competitive levels and to deprive the procuring entity of the benefits of free and open competition.

- c) Rejects a proposal for 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 sanction or debar or recommend to appropriate authority (ies) for sanctioning and debarment of a firm or individual, as applicable under the Acts and Regulations;
- e) Requires that a clause be included in Tender documents and Request for Proposal documents requiring (i) Tenderers (applicants/proposers), Consultants, Contractors, and Suppliers, and their Sub-contractors, Sub-consultants, Service providers, Suppliers, Agents personnel, permit the PPRA or any other appropriate authority appointed by Government of Kenya to 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 ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and tendering, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

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, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

FORM OF TENDER SECURITY-OPTION 1 -DEMAND BANK GUARANTEE

Beneficiary:

Request for Tenders No:

Date:

TENDER GUARANTEE No.:

Guarantor:

We have been informed that (herein after called "the Applicant") has submitted or will submit to the Beneficiary its Tender (herein after called" the Tender") for the execution of under Request for Tenders No. ("The ITT").

Furthermore, we understand that, according to the Beneficiary's conditions, Tenders must be supported by a Tender guarantee

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

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

having been notified of the acceptance of its Tender by the Beneficiary during the Tender Validity Period or any extension there to provide by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the Performance.

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.

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

[Signature]

FORMAT OF TENDER SECURITY [Option 2–Insurance Guarantee]

TENDER GUARANTEE No.: _____

Whereas [Name of the tenderer] (hereinafter called “the tenderer”) has submitted its tender dated [Date of submission of tender] for the [Name and/or description of the tender] (hereinafter called “the Tender”) for the execution of _____ under Request for Tenders No. _____ (“the ITT”).

KNOW ALL PEOPLE by these presents that WE of [Name of Insurance Company] having our registered office at (hereinafter called “the Guarantor”), are bound unto [Name of Procuring Entity] (hereinafter called “the Procuring Entity”) in the sum of (Currency and guarantee amount) for which payment well and truly to be made to the said Procuring Entity, the Guarantor binds itself, its successors and assigns, jointly and severally, firmly by these presents.

Sealed with the Common Seal of the said Guarantor this ____ day of _____ 20 ____.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Applicant:

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

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.

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.

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]

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

Tender No.: *[insert number of tendering process]*

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

I/We understand that, according to your conditions, bids must be supported by a Tender-Securing Declaration.

I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation(s) under the bid conditions, because we—(a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.

I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of:

Our receipt of a copy of your notification of the name of the successful Tenderer; or

Thirty days after the expiration of our Tender.

I/We understand that if I am /we are/ in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.

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

Name:..... Duly authorized to sign the

bid for and on behalf of: *[insert complete name of Tenderer]*

Dated on day of, ... *[Insert date of signing]* Seal or Stamp

5.APPENDIX TO TENDER

Schedule of Currency requirements

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

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

PART 2: WORKS REQUIREMENTS

SECTION V - BILLS OF QUANTITIES

(a) Preambles

1. The method of measurement of completed work for payment shall be in accordance with the general principles of the standard Method of Measurement of Building Works of East Africa - Second Edition (Metric), published in January, 1987 by the Architectural Association of Kenya, Chapter of Quantity Surveyors.
2. The Site is situated in Kenya School of Government, Mombasa Campus; Kizingo area, Vanga Road. Access to the site shall be through Vanga Road.

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 program 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 program 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, waterpipes 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. The 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 October 15, 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 of his rates.
26. The Contractor shall provide temporary sheds, offices mesh 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 to remove 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 Contractor 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 Contractor's 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 July 01, 2000. A 3% withholding tax will be applicable to all interim payments 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 June 06, 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 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:

PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT
A	<u>PARTICULAR PRELIMINARIES</u>	
	<u>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</u> Preliminaries to the contract are mandatory conditions and responsibilities the contractor is required to fulfill for the complete and proper execution of the contract. The contractor is advised to read and understand all his obligations under preliminaries. Should he find that fulfillment of any of the items will lead to him incurring any cost not covered under measured works he shall price such works accordingly otherwise failure to price any item will be construed to mean that the tenderer has included it in other priced items in the bills of quantities. NB: VAT SHALL be inclusive in all rates	
B	<u>ABBREVIATIONS</u> Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows; C.M. Shall mean cubic Metre S.M. Shall mean square Metre L.M. Shall mean linear Metre mm Shall mean Millimeter KG Shall mean Kilogram No. Shall mean Number PRS. Shall mean Pairs B.S. Shall mean the British Standard Specification published by the British Standards Institution, 2 park Street, London W.I. Ditto Shall mean the whole of the preceding description except as qualified in m.s. Shall mean measured separately. a.b.d Shall mean as before described.	
PP/2	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>EMPLOYER</u> The Employer is Kenya School of Government The term "Employer" and "Government" wherever used in the contract document shall be synonymous	
B	<u>CONTRACTOR</u> The term "Contractor" refers to the person whose or corporate body that's tender to carry out the Works has been accepted by the Employer	
C	<u>PROJECT MANAGER</u> The term "P.M." wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorized to represent him on behalf of the Government.	
D	<u>ARCHITECT</u> The term "Architect" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Nairobi Regional works Office for State Department for Public Works P.O. Box 42267, NAIROBI.	
E	<u>QUANTITY SURVEYOR</u> The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Nairobi Regional works Office for State Department for Public Works P.O. Box 42267, NAIROBI.	
F	<u>ELECTRICAL ENGINEER</u> The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Nairobi Regional works Office for State Department for Public Works P.O. Box 42267, NAIROBI.	
G	<u>MECHANICAL ENGINEER</u> The term "Mechanical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Nairobi Regional works Office for State Department for Public Works P.O. Box 42267, NAIROBI.	
H	<u>STRUCTURAL ENGINEER</u> The term "Structural Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Nairobi Regional works Office for State Department for Public Works P.O. Box 42267, NAIROBI.	
PP/3	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>DESCRIPTION OF THE WORKS AND SCOPE OF CONTRACT</u> The works comprise Demolition, Doors, Windows, Tiling, Painting and associated mechanical works as in detailed bills of quantities. The scope of contract generally comprises the of provision of Materials, Labour, tools, site management and all accessories necessary in the partitioning, doors, finishes, fittings and associated electrical installation and Mechanical works	
B	<u>LOCATION OF SITE</u> The site of the Proposed Rehabilitation of Buildings at KSG, MOMBASA. The Contractor is advised to visit the site to familiarize himself with the nature and position of the site. No claims arising from the Contractor's failure to do so will be entertained.	
C	<u>FORM OF CONTRACT</u> The form of contract will be the one included in the Republic of Kenya Standard Tender Document for Procurement of Works (Building and Associated Civil Engineering) (2021 Edition) hereby attached and Conditions of Contract are those attached thereto. If the Contractor considers that compliance with any of the Conditions of Contract involves any expenses distribute them among his rates for the various items in the Bills of Quantities with any of the Conditions of Contract. These are numbered from 1 to 20 as set out on pages 74 to 126 of these tender documents. Particulars of the insertion to be made in the Appendix of the Appendix of the Contract Agreement will be found in the Particular Preliminaries of these Bills of Quantities.	
D	<u>PERFORMANCE BOND.</u> The Contractor shall find and submit on the Form of Tender the name of one surety who shall be an approved bank or approved fidelity insurance company and who will be willing to be bound to the Employer in an amount of Five per cent (5%) of the Contract amount for the due performance of the contract up to the date of completion as certified by the "Employer's Representative" and who will when and if called upon, sign a Bond to that effect on Ministry of Roads Public works and Housing Form No 118 (without the addition of any limitations) on the same day as the Contract Agreement is signed. In the event of the surety named in the form of tender not being approved by the Employer, the Contractor shall furnish within seven days another Surety to the approval of the Government.	
PP/4	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>METHOD OF MEASUREMENT</u> The Bills of quantities have been prepared in accordance with the general principles of the standard Method of Measurement of Building Works of East Africa - Second Edition (Metric), published in January, 1987 by the Architectural Association of Kenya, Chapter of Quantity Surveyors.	
B	<u>SUFFICIENCY OF TENDER</u> The Contractor be deemed to have satisfied himself before tendering as to the correctness and sufficiency of the Tender for the Works and of the rates and prices stated in the priced Bills of Quantities which rates and prices shall cover all his obligations under the Contract and all matter and things necessary for the proper completion and maintenance of the work	
C	<u>BID SECURITY</u> 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 of One Hundred and Twenty (120) days from the date of Tender Opening. 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"	
D	<u>AREA TO BE OCCUPIED BY THE CONTRACTOR</u> 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"	
E	<u>ADJOINING PROPERTY</u> Take all necessary precautions to prevent damage to adjoining property. Any damage occurring must be made good to the satisfaction of the "PROJECT MANAGER" and/or owner(s) of the adjoining property at the contractor's expense.	
PP/5	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>SANITATION OF THE WORKS</u> The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the "PROJECT MANAGER"	N/A
B	<u>CLAIMS</u> 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 claim or intent to claim notice to the "PROJECT MANAGER" within fourteen days after the event giving rise to the claim has first arisen. The claim shall be submitted within fourteen days thereafter. No claims shall be entertained if the contractor has not complied with these conditions.	
C	<u>OFFICE FOR THE "PROJECT MANAGER"</u> 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 maintain a lock-up pedestal type water or bucket closet for the sole use of the "ER" including making temporary connections to the drain where applicable to the satisfaction Government and Medical Officer of Health and pay the services of a cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be complete before the contractor is permitted to commence the works. The Contractor shall make available on site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 Metre metallic linen tape.	
D	<u>PROGRESS CHART.</u> 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 "Employer's Representative" and a further copy to be retained site. Progress to be recorded and chart to be amended as necessary as the work proceeds.	
PP/6	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>FIRM PRICE CONTRACT</u> This is a Firm price contract and, therefore the tenderer shall not be reimbursed for any increases in the costs of materials and/or labour in the execution of the works except as provided under the fluctuations clause.	
B	<u>PRICING RATES</u> The tenderer shall include for all costs in executing the whole of the works, including supply of Materials, Labour, tools, equipment and site management, replacing damaged items, fixing, taxes, all to comply with the said Conditions of Contract.	
C	<u>PAYMENTS</u> The tenderer's attention is drawn to the fact that the Employer shall only pay for the work done all in accordance with the 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	<u>URGENCY OF THE WORKS</u> The Contractor is notified that these "works are urgent" and should be completed within the period stated in these Particular Preliminaries. The Contractor should allow for any costs he may incur by having to complete the works within the stipulated contract period.	
E	<u>SIGN BOARD</u> Allow for providing, erecting and maintaining throughout the course of the contract and afterwards clearing away a sign board in accordance with the details to be obtained from the "PROJECT MANAGER"	
F	<u>VIEWING OF DRAWINGS</u> Any tenderer interested in viewing the drawings related to this project before submission of the tenders may do so by contacting the "PROJECT MANAGER"	
G	<u>USE OF SITE</u> Do not use the site for any other purpose other than carrying out the works. Do not permit or display any advertisement without the consent of the "PROJECT MANAGER"	
PP/7	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>V.A.T DEDUCTIONS</u> The tenderer is advised that in accordance with Government public notice No. 35 &36 Dated 11th September 2003 operational from 1st October 2003, withholding VAT will be levied against the contract sum by the Employer and remitted 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 of 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.	
B	NB: VAT SHALL be included in all rates	
C	<u>PLANT AND LABOUR RETURNS</u> The Contractor shall prepare and deliver to the Architect or his representative detailed returns showing the number and category of his supervisors, numbers of the several classes of labour and plant employed on the works together with those of all his Sub – Contractors. The Contractor shall keep a visitors’ book on the site and shall ensure that the names of all visitors to the site are duly recorded.	
D	<u>TRANSPORT TO AND FROM THE SITE</u> The Contractor shall include in his tender price for the transport of materials, workmen, etc., to and from the site of the proposed works, at such hours and by such routes as are permitted by the competent Authorities.	
E	<u>WATER FOR WORKS</u> The Contractor shall provide at his own risk and cost all necessary arrangements for clean and fresh water for the works including that required by the Sub- contractors on site. He must provide for any temporary plumbing, meter, payment of all water bills, storage facilities and clear away after completion and make good works disturbed. No guarantee is given or implied that sufficient water will be available from the mains and the Contractor must make his own arrangements for augmenting this supply at his own cost as necessary. Nominated Sub-Contractors are to be made liable for the cost of any water used or any installation specially provided for their own use.	
	<u>LOCAL REGULATIONS AND BY – LAWS</u> The Contractor is to comply with all local regulations and by – laws of the local Authority including serving of notices, paying of fees including all stamp charges.	
PP/8	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>POLICE REGULATIONS</u> The Contractor shall at all times observe police and traffic Regulations including those regarding the loading or unloading of or waiting vehicles on the Public Highways and the Contract Sum shall be deemed to include for strict compliance therewith.	
B	<u>LIGHTING AND POWER FOR THE WORKS</u> The Contractor shall provide at his own risk and cost the required electricity supply for the works including that required by Sub-Contractors and others on site, and pay all fees and obtain all permits in connection therewith. Nominated Sub-Contractors are to be made liable for the cost of any electrical power used and for any installations provided specifically for their own use.	
C	<u>DAY WORKS</u> The Project Manager may, if in his opinion deems it necessary or desirable, order in writing that any additional or substituted work shall be executed on a day work basis. The contractor shall then be paid for such work in accordance with day work rates and percentage additions to be agreed with the Project Quantity Surveyor. The contractor shall furnish to the Architect all receipts or vouchers as may be necessary to prove the amounts paid and before ordering materials shall submit to the Architect quotations for the same for his approval. The contractor shall furnish to the Architect all receipts or vouchers as may be necessary to prove the amounts paid and before ordering materials shall submit to the Architect quotations for the same for his approval. In respect of all works executed on a day work basis the contractor shall during the continuance of such works, deliver each day to the Project Manager a list in duplicate of names, occupation and time of all work men employed on such work and a statement also in duplicate showing the description and the quantity of all materials and plant used therein or thereof. (other than plant which is included in the percentage addition on net amount of wages) One copy of each list and statement will, if correct or when agreed, be signed by the Project Manager and returned to the Contractor.	
PP/9	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>TELEPHONE</u> A telephone will be provided on site by the contractor. He must allow for footing all bills incurred by him and the design team during the entire contract period.	
B	<u>CONTRACTOR'S SUPERINTENDENT / SITE AGENT</u> 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 Architect and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.	
C	<u>LABOUR</u> No labour may be housed on site with the exception of watchmen. The Contractor shall provide, erect and maintain satisfactory housing for the watchmen and shall remove the same on completion of the works. Unless the Project Manager otherwise agrees the Contractor is to recruit locally all his unskilled labour and as much as possible of his skilled labour.	
D	<u>HOARDING</u> 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 centers with two 75 x 50 mm timber rails. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.	
E	<u>PROTECTION OF THE WORKS</u> The Contractor shall protect or cover-up all finished work liable to damage including provision of temporary roofs, gutters, drain etc. during the progress of the works and until the completion of the works. Any damage occurring to the works, materials, drains, paths or other works due to weather or want of protection during the progress of the works shall be made good by the Contractor at no extra cost.	
F	<u>CONCRETE CUBE TESTS</u> The Contractor shall allow for the cost of preparing, delivery and testing of concrete samples required by the Engineers and shall obtain test Certificates of concrete test tubes, each cube size 150 x 150 x 150 mm or such other size as may be directed by the Engineer. A set of 3No x 50 Tests @ = Kshs.....	
PP/10	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>PROGRAMME / PROGRESS CHART</u> Within seven (14) days of signing the Contract, the Contractor shall prepare a full detailed program and progress chart in the form of bar chart, precedence diagram or network analysis showing completion dates of various sections of work and resource requirement to the approval of the Project Manager. If the Contractor proposes sectional completion of the works, he must plan this detail including access roads and services and this program shall be reflected on the chart. Upon letting of the Sub-contract works the Contractor shall incorporate times and details of each Sub-contractor's work – which information is to be agreed with the Sub-contractor concerned and the chart shall be so designed to accommodate this information. At the end of each week the Contractor shall mark on the chart in a different colour the actual time taken to complete the respective stages and section of the works. The Contractor shall also show upon the chart the anticipated weekly labour strength required, divided into labourers and craftsmen, and shall similarly mark up the actual numbers employed. The Contractor shall supply approved copies of the chart to the Project Manager. The Contractor shall liaise with the Project Manager, Nominated Sub-contractors and Nominated Suppliers to ensure that Contract Completion date remains unchanged.	
B	<u>TRAINING LEVY</u> The Contractor's attention is drawn to legal Notice No. 237 of October, 1971, (or such subsequent edition as may be current) together with the latest amendments (if any) which requires payment by the Contractor of a Training Levy at the rate of ¼% (one quarter per cent) of the Contract Sum on all Contracts of more than Kshs. 50,000.00 in value and his tender must include for all costs arising or resulting therefrom. Proof of Payment of this levy will be required.	
C	<u>VALUE ADDED TAX</u> The Contractor's attention is drawn to the Provisions of the Finance Bill, 1999 which requires payment by the Contractor of Value Added Tax (VAT) on construction services rendered. The Contractor will included VAT in his rates	
PP/11	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>WITHHOLDING TAX ON CONSULTANCY, AGENCY FEES AND CONTRACTUAL PAYMENTS SECTION 35 (3) (f) (i) (ii)</u> The Contractor's attention is drawn to the Kenya Revenue Authority (K.R.A.) Public and any other amendments thereafter Notice notifying the Tax paying public that with effect from 1st July, 2000, 2 % withholding tax is applicable to all payments made to residents' persons in respect of Consultancy, Agency or Contractual Payments as follows; i) To individuals' recipients without a registered business name or without a Personal Identification Number (PIN) if the amount is Kshs. 24,000 or more per month ii) The recipient is a person working under a registered business name of having a Personal Identification Number (PIN) if the amount is Kshs. 200,000.00 or more in a month In this case the payer should advice the commissioner of Income Tax of payments paid in writing immediately.	
B	<u>STANDARD LEVY</u> The Contractor's attention is drawn to Legal Notice No. 267 of 1990 (or such subsequent edition as may be current) together with the latest amendments (if any), which requires payment by all Contractor's Standards levy at the rate of 1/5% (one fifth per cent) of the ex-factory price in respect of manufacture during this each month subsequent to a ceiling of Kshs. 200,000.00 per Annum. The tenderer must allow for all cost arising or resulting therefrom. Proof of Payment of this levy will be required	
C	<u>SAFETY</u> The Contractor shall comply all times with the requirements of the Factory Act (Cap 514), Building Construction Rules, Supplement 18, Legal Notice No. 40 dated 5th April, 1984 to ensure that the safety of his workpeople and authorized visitors to the site is protected at all times. In particular, there shall be proper provision of planked footways and guardrails scaffolding, etc., protection against falling materials and tools and the site shall be kept tidy and clear of dangerous rubbish. The Contractor shall appoint a Safety Officer as required by the Factory Act and notify the Factory inspector of his name. The safety officer shall be on site at all times and all directions given by the Architect to the safety officer shall be deemed to be Architect's instructions, and shall be complied with promptly without additional cost to the Contract.	
PP/12	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>PROTECTIVE CLOTHING</u> The Contractor shall provide all protective or any other special clothing or equipment for his employees that may be necessary. This shall include, inter-alia, safety helmets, gloves, goggles, earmuffs, gum boots, overalls, etc., according to the type of work. The Contractor shall ensure that safety helmets are worn by all Staff on site at all times.	
B	<u>PROPRIETARY MATERIALS</u> Where proprietary materials are specified here-in-after, the Contractor may propose the use of materials of other manufacture but of equal quality for approval by the Project Manager. All materials and goods where specified to be obtained from a particular manufacturer or supplier are to be used in accordance with their instructions.	
C	<u>STANDARD FORMS</u> Any tender with standard forms not filled as appropriate will be treated as non-responsive.	
D	<u>TENDER VALIDITY</u> Clause 3.6 of the Instructions to Tenderers has been amended to read: Tenders shall remain valid for a period of One Hundred and Seventy Five (175) days from the date of Tender Opening. All Tenderers are advised to note this amendment when filling the Form of Tender".	
E	<u>AS-BUILT DRAWINGS</u> 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.	
G	<u>TESTING AND COMMISSIONING OF INSTALLED SYSTEMS</u> Allow for testing, commissioning and integration of the whole installed systems	
H	<u>TRAINING AND CERTIFICATION</u> Allow for training and certification of 5 No. Users/ Equipment operators and 5 No. Technical staff from SDPW	
J	<u>WARRANTY AND DOCUMENTATION</u> Allow for preparing and presenting warranty and documentation in respect of all works including cabling, water reticulation and foul drainage layout diagrams in indelible point labels. Prepare individual test results of network cables, water pipes, waste pipes and AC installations, including any other as directed by the Engineer (for each and for all points to be submitted as a bound report). Attach printed results and soft copy	
PP/13	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
	<u>PROJECT MANAGEMENT EXPENSES</u>	
A	Provide a provisional sum of Kenya Shillings One Million Seven Hundred and Fifty Thousand (Kshs.1,750,000/=) only for the Project Management team Allowances for site visits, inspections, transport, airtime and stationery.	1,750,000.00
B	Allow for Contractor's profits and overheads on A above. (....%)	
C	Provide a provisional sum of Kenya Shillings Five Hundred and Fifty Thousand (Kshs.550,000/=) only for Clerk of Works expenses.	550,000.00
D	Allow for Contractor's profits and overheads on C above. (.... %)	
	5 NO. LAPTOP WITH THE FOLLOWING SPECIFICATIONS FOR PROJECT ENGINEERS • Processor: Intel® Core™ Ultra 7 255H processor • Operating System: Windows 11 Pro • Neural Processing Unit (NPU):13 trillion operations per second (TOPS) AI performance • Graphics: UMA: Integrated Graphics • Memory:24GB LPDDR5X (6400MHz), dual channel • Storage:1TB M.2 PCIe Gen4 SSD TLC (2242) • Battery:☐57Whr Supports Rapid Charge Boost (15 minutes = 2 hours capacity) • Audio:☐Dolby Audio™ 2x2W speakers Dual-array mics • Camera :1080p FHD Infrared (IR) Camera with webcam privacy shutter • Ports/Slots: Left: • 2 x USB-C® (USB 10Gbps) with power delivery 3.1 • HDMI® 1.4 (supports resolution up to 4K@30Hz) • Headphone / mic combo Right: • Power button • 2 x USB-A (USB 5Gbps) • Wireless: Wi-Fi 7* with Bluetooth® 5.4 • Display : 14" WQXGA (1920 x 1200) OLED, 16:10 aspect ratio, 400nit, 60Hz, 100% DCI-P3, TÜV Rheinland Low Blue Light (hardware/software controlled) Dimensions (H x W x D) :17.5mm x 313mm x 227mm / 0.68" x 12.32" x 8.93" Pen: Base Pen 3.0	1,900,000.00
	<u>VEHICLES, INSURANCE AND FUEL</u>	
B	Purchase and provide 1No 4WD Pick up as per specifications for the exclusive use of the project supervisor and his staff. Ownership of the vehicle shall revert to the client at the end of the project	7,000,000.00
C	Allow for provision of comprehensive insurance cover, driver, vehicle operating and maintenance for vehicle above not exceeding 7.5% of the Vehicle price	525,000.00
D	Allow for provision of comprehensive insurance cover, driver, vehicle operating and maintenance expenses for client's existing project vehicle	2,000,000.00
E	Provide for fueling and maintenance of the vehicles. Allow for 3,000 km per Month.	3,600,000.00
PP/14	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
	Defects Liability Period 6 Months from practical completion Date for Possession To be agreed with the Project Manager Date for Completion 104 Weeks from date of Possession Liquidated and Ascertained at the rate of Kshs.0.05% of Contract Sum per week or part thereof Prime Cost Sums for which the Contractor desires to tender for..... Period of Interim Certificates: Monthly Minimum amount of interim certificates: Period of Honoring Certificates: 45 days Percentage of Certified Value Retained: 10% Limit of Retention Fund: 5%	
PP/15	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
	<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 Brought Forward from page PP/9 Brought Forward from page PP/10 Brought Forward from page PP/11 Brought Forward from page PP/12 Brought Forward from page PP/13 Brought Forward from page PP/14	
PP/16	TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO GRAND SUMMARY	

BILL NO 2:

GENERAL PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT
	<u>GENERAL PRELIMINARIES</u>	
A	<u>PRICING OF ITEMS OF PRELIMINARIES</u> Preliminaries to the contract are mandatory conditions and responsibilities the contractor is required to fulfill for the complete and proper execution of the contract. The contractor is advised to read and understand all his obligations under preliminaries. Should he find that fulfillment of any of the items will lead to him incurring any cost not covered under measured works he shall price such works accordingly otherwise failure to price any item will be construed to mean that the tenderer has included it in other priced items in the bills of quantities.	
B	<u>SUPERVISION AND WORKING HOURS</u> 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. The working hours shall be those generally worked by good employers in the in the Building and Civil Engineering trades in Kenya. No work shall be carried out at night or on gazetted holidays unless the "PROJECT MANAGER" shall so direct. No work shall be covered up nor shall any concreting be carried out in the in the absence of the Clerk of Works without prior approval of the "PROJECT MANAGER" in writing.	
C	<u>SITE</u> The term "the Site" wherever used hereinafter and in all Contract Documents shall mean the lands and other places on, under or through which the works are to be executed or carried out and any other lands or places provided by the Employer for the purpose of the Contract. The Contractor is advised to visit the site and will be deemed to have acquainted himself with regard to the nature and position, means of access, risk of injury or damage to existing property, conditions undeunder which the work will have to be carried out, the supply of and conditions affecting labour and the facilities for obtaining the articles of materials referred to in these Bills of Quantities. No claim by the Contractor will be allowed on the grounds of any such matter or otherwise. The Contractor must obtain the approval of the Architect regarding the use of any materials found on site.	
GP/18	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>INSURANCE</u> The Contractor shall insure as required in Condition No.15 of the Conditions of contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the "PROJECT MANAGER" either by production of an insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clause have been complied with in all respects. Thereafter the "PROJECT MANAGER" shall from time to time ascertain that the premiums are duly paid up by the Contractor, who, if called upon to do so, shall produce receipted premium renewals for the "PROJECT MANAGER" inspection.	
B	<u>PAYMENT FOR MATERIALS ON SITE</u> 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.	
C	<u>QUALITY OF THE WORKS</u> The works should be of high quality and the contractor will be required to make samples of the work to be executed for approval by the PM before he commences the carrying out of the works. The contractor should allow for sample works in his rates accordingly. In case a sample does not meet the standards set by the PM, the contractor shall be expected to make another sample at his cost until it is approved by the PM.	
D	<u>SAMPLES</u> 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 required by the "PROJECT MANAGER" for his approval or rejection and any other samples in case of rejection until such samples are approved by the "PROJECT MANAGER" and he may reject any materials or workmanship not in his opinion to be up to the 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 Roads Public Works & Housing. 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.	
GP/19	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>EXISTING SERVICES</u> 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 shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.	
B	<u>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</u> The Contractor is notified that these works are to be carried out on a site where the Client is going on with other normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the Client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site.	
C	<u>SECURITY OF WORKS ETC.</u> The Contractor shall be entirely responsible for the security of all the works, stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.	
D	<u>ACCESS TO SITE AND TEMPORARY ROADS.</u> Means of access to the Site shall be agreed with the "PROJECT MANAGER" prior to commencement of the work and the Contractor must allow for building any necessary temporary access roads for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the "PROJECT MANAGER"	
E	<u>CLEARING AWAY</u> 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 works and stains and leave in a clean and tidy state to the reasonable satisfaction of the "PROJECT MANAGER"	
GP/20	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>WORKS TO BE DELIVERED UP CLEAN</u> 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."	
B	<u>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</u> <u>Attendance</u> Clause B19(a) of the Standard Method of Measurement is and the following clause is substituted: - Attendance on nominated Sub-Contractors shall be given as an item in and shall be deemed to include: allowing use of standing scaffolding, messrooms, sanitary conditions and welfare facilities; provision of special scaffolding where necessary, 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. <u>Fix Only: -</u> "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.	
C	<u>ALTERATIONS TO BILLS, PRICING, ETC.</u> Any unauthorized 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 Bills of Quantities. All items 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.	
GP/21	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>PROVISIONAL SUMS.</u> 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 Measurements. Such sums are net and no addition shall be made to them for profit.	
B	<u>PRIME COST (OR P.C.) SUMS.</u> 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 Measurements. Persons or firms nominated by the "PROJECT MANAGER" to execute work or to provide and fix materials or goods as stated in Condition No. 8 of the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.	
C	<u>ADJUSTMENT OF P.C. SUMS.</u> In the final account all P.C. Sums shall be deducted and the amount properly expended upon the P.M's order in respect of each of them added to the Contract sum. The Contractor shall provide 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.	
D	<u>ADJUSTMENT OF PROVISIONAL SUMS.</u> In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the "PROJECT MANAGERS" order added to the contract Sum. Such work shall be valued as described for variations in condition No. 22 of the conditions of Contract, but should any part of the contract be executed by a nominated Sub-Contractor, or any articles for the Work be supplied by a Nominated Supplier, the value of such work or articles shall be treated as P.C. P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.	
GP/22	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>PROVISIONAL WORK</u> 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 be 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" If the Contractor makes default in these respects he shall, if the "PROJECT MANAGER" so directs, uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.	
B	<u>NOMINATED SUB-CONTRACTORS</u> When any work is ordered by the "PROJECT MANAGER" to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts as described in Condition No 8 of the Conditions of Contract and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract contractor's work concerned in the P.C. Sums under the description "Add for Attendance".	
C	<u>NOMINATED SUPPLIERS</u> The cost of "fix only" materials to be obtained from Nominated Suppliers which are covered by Prime Cost or Provisional Sums shall include for taking delivery where directed, checking with invoices or idents, reporting and claiming damages for shortages and damaged goods, defraying demurrage, signing for as having been received in good order, transporting, unloading, storing, covering and protecting until the time of fixing, unpacking, replacing anything lost or damaged, sorting, assembling, hoisting to required levels and fixing as described. Before placing any orders with Nominated Sub-Contractors or Nominated Suppliers the Contractor must ascertain that the terms and conditions of the quotations and the dates of delivery of materials or execution of works comply with the terms of Contract and the Progress Schedule.	
D	<u>DIRECT CONTRACTS</u> 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 the instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.	
GP/23	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>ATTENDANCE UPON OTHER TRADESMEN, ETC.</u> 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 and measured and paid for to the extent executed at rates provided in these bills.	
B	<u>GENERAL SPECIFICATION.</u> 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 General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be followed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.	
C	<u>PLANT, TOOLS AND VEHICLES</u> 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 formwork, scaffolding or temporary works of any kind shall be used afterwards in the permanent work.	
D	<u>MATERIALS AND WORKMANSHIP</u> All materials and workmanship used in the execution of the works shall be of the best quality and description unless otherwise described. Any materials condemned by the Architect shall be immediately removed from site at the Contractor's expense. The standard of workmanship shall not be inferior to the current British codes of practice and / or equivalent Kenya Building Standards. No materials for use in the permanent construction are to be used for any temporary or other purpose other than that for which they are provided.	
GP/24	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>MATERIALS ON SITE</u> 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 is to include the materials of Main Contractor, and Nominated Sub-Contractors Suppliers.	
B	<u>MATERIALS ARISING FROM EXCAVATIONS</u> Materials of any kind obtained from the excavations shall be the property of the Government Unless the "PROJECT MANAGER" directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the "PROJECT MANAGER". Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.	
C	<u>SIGN FOR MATERIALS SUPPLIED.</u> The Contractor will be required to sign a receipt for all articles and materials supplied by the "PROJECT MANAGER" at the time of taking delivery thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and 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"	
D	<u>STORAGE OF MATERIALS</u> The Contractor shall provide at his own risk and cost where directed on the site weatherproof lockup sheds for the safe storage and custody of materials for the works and for the use of workmen engaged thereon and shall remove such 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.	
E	<u>MATERIALS FROM DEMOLITIONS</u> Any materials from demolitions and not re-used shall become the property of the Client/User. The Contractor shall allow in his rates for the cost of transporting, storing and securing the materials on site as directed by the "PROJECT MANAGER"	
GP/25	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>SITE LEVELS AND SETTING OUT</u> Before commencing the work the Contractor must arrange for and agree with the Employer's Representatives the existing site levels and similarly establish and agree a bench mark. The Contractor shall set out the Works in accordance with the dimension and levels shown on the drawings and shall be responsible for the correctness of all dimensions and levels so set out by him and will be required to amend all errors arising from inaccurate setting out cost and expense. In the event of any error or discrepancies these shall be reported to by the Architect for his immediate attention. No work shall be commenced by the Contractor until he has received written instruction from the Architect to adjust such discrepancies which may be proved. Upon receipt of such instructions the Contractor shall thereupon be responsible for adjustments necessary. No claim for extra expense or relief from the Provisions of Clause 5 of the Conditions of Contract based on any discrepancy or error in the dimensions or levels shown on the Drawings may be made thereafter. Before any work is commenced by Sub-Contractors or specialist firms, dimensions must be checked on the site and or building and agreed with the Contractor irrespective of the comparable dimensions shown on the drawings. The Contractor shall be responsible for the accuracy of such dimensions.	
B	<u>LABOUR REGULATIONS & FAIRWAGES</u> The Contractor shall comply with the Regulation of Wages and Conditions of Employment Act and pay wages and other emoluments and observe working hours and Conditions of Labour not less favourable than the minimum remuneration and conditions of employment applicable in the district in which the work is carried out. These regulations must be conveniently displayed at all times during the execution of the Contract for the information of employees in all places used for the execution of the Contract. The Contractor shall furnish to the Architect if called upon to do so such particulars of the rates of wages, hours, and conditions of labour referred to above. The Contractor shall recognize the freedom of employees to belong to Trade Unions and maintain daily records in English of time worked and wages paid to individual employees. The Contractor shall be responsible for compliance by Sub - Contractors employed in the execution of the Contract with the aforementioned labour regulations. Should a claim be made to the Architect alleging the Contractor's default in payment of fair wages of any workman employed on the Contract and if satisfactory proof thereof is furnished to the Architect by the Department responsible for labour for the time being, the Architect may, failing payment by the Contractor, pay the Claim out of any monies due or which may become due to the Contractor under the Contract	
GP/26	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
A	<u>SAFETY, HEALTH AND WELFARE OF WORK FORCE</u> The contractor shall allow for providing for safety, health and welfare of work people and for complying with any relevant ordinances' regulations or union agreements	
B	<u>NATIONAL INSURANCE AND PENSION FUND</u> The contractor shall allow for making any National Insurance or Social Security Fund or payments due in respect of his work force	
C	<u>HOLIDAYS AND TRANSPORT FOR WORK FORCE</u> The contractor shall allow for holiday and transport for work people and of complying with any relevant Ordinances Regulations or Union agreements.	
D	<u>OVERTIME</u> The Contractor shall be responsible for any extra costs for overtime arrangements he may consider necessary in order to complete the works within the Contract time unless otherwise instructed by the Architect. For any overtime worked in accordance with written instructions by the Architect, the Contractor shall be reimbursed in respect of such overtime to the extent only of the additional net cost of unproductive time payable over and above the basic hourly rates as Act, Building and construction Industry Wages Council and shall exclude any bonuses, profits and overheads.	
E	<u>DISTURBANCE OR NUISANCE</u> The Contractor shall allow for taking all necessary precautions in the order of execution of the works so as to avoid causing disturbance or nuisance to the occupants or any existing buildings on or adjacent to the works and to the public and for complying with the Architect instructions in this respect.	
F	<u>INTERRUPTION OF WORK</u> The Contractor is to allow hereinafter for all cost incurred by the interruption of work due to public parades, professions and the like.	
G	<u>BLASTING OPERATIONS</u> 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.	
GP/27	<i>Carried to Collection</i>	

ITEM	DESCRIPTION	AMOUNT
	<u>COLLECTION</u>	
	Brought Forward from page GP/1	
	Brought Forward from page GP/2	
	Brought Forward from page GP/3	
	Brought Forward from page GP/4	
	Brought Forward from page GP/5	
	Brought Forward from page GP/6	
	Brought Forward from page GP/7	
	Brought Forward from page GP/8	
	Brought Forward from page GP/9	
	Brought Forward from page GP/11	
GP/28	TOTAL FOR GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY	

PREAMBLES AND PRICINGS NOTES

PREAMBLES AND PRICING NOTES

A. GENERALLY

- All work to be carried out in accordance with the Ministry of Public Works General Specifications for Building Works issued in 1976 or as qualified or

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

C. WALLING

- All precast concrete blocks shall be manufactured by the methods and to the sizes specified in the Ministry of Public Works "Specification for Metric Sized Concrete

- Walling of 100 mm thickness or under shall be reinforced with hoop iron every
- Prices for walling must allow for all costs in preparing, packing and sending

D. CARPENTRY

- The grading rules for cypress shall be the same for podocarpus and all timber
- All structural timber must conform to the minimum requirements for moisture content and preservative treatment and timber prices must allow for preparing,
- Prices must also include for all nails and fasteners.

E. JOINERY

- Cypress for joinery shall be second grade in accordance with the latest grading
- Where Mahogany is specified, this refers to prime grade only. The Contractor may with the approval of the Project Manager; use either Msharagi or Mvuli in
- 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
- 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,

PN/30

A. IRONMONGERY

- Ironmongery shall be specified in the Bills of Quantities or equal and approved.
- Prices must include for removing and re-fixing during and after painting, labeling all keys, and for fixing to hardwood, softwood, concrete or blockwork.
- Catalogue references given for ironmongery are for purposes of indicating quality and size of item(s). Should the Contractor wish to substitute the specified

B. STRUCTURAL STEELWORK

- All structural steelwork shall comply with the Ministry of Public Works “Structural Steelwork Specification (1973) and shall be executed by an approved

C. PLASTERWORK AND OTHER FINISHES

- All finishing shall be as described in the general specifications and in these Bills of
- Prices for paving are to include for brushing concrete clean, wetting and coating
- Rates for glazed wall tiling are to include for a 12 mm cement and sand (1:4)

D. GLAZING

- Where polished plate glass is specified, this refers to general glazing quality.
- Prices for glazing shall include for priming of rebates before placing putty.
- The Contractor will be responsible for replacing any broken or scratched glass

E. PAINTING

- Painting shall be applied in accordance with the manufacturers’ instructions.
- Prices for painting are to include for scaffolding, preparatory work, priming coats, protection of other works and for cleaning up on completion. Prices for

F. TILES - CERAMIC, PORCELEIN, GRANITO ETC

- No tiles shall be fitted/installed without sample approvals.
- No claim shall be allowed on the grounds that the bidder priced an inferior

G. CURTAINS & COVERS ETC

- The bidder shall be deemed to have priced the best materials
- No curtains & covers shall be fitted/installed without sample approvals.
- No claim shall be allowed on the grounds that the bidder priced an inferior

BILL NO. 3

BUILDERS WORKS

BAHARI HOSTELS

ITEM	DESCRIPTION	QTY	UNIT		
	<u>WASHROOMS BUILDERS' WORKS</u> <u>CAREFUL DEMOLITION WORKS</u> The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc. as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Project 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 carted 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 A B Carefully demolish the existing wall tiles, and make good surfaces to receive new Granito wall tiles (m/s) , Approximate area of 2460sm, load and cart away the arising debris Carefully hack the existing floor finish and make it good to receive new screed (M/S) an approximate area of 3000sm, load and cart away the arising debris				
		2,460.00	SM		
		3,000.00	SM		
BH/34	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	DEMOLITION - (CONTINUED)				
A	Carefully polish/scrub off existing parquet floor finish, repair damaged floor sections and prepare surfaces to receive new varnish (m/s) , Approximate area of 100sm.				
B	Carefully remove the existing broken window panes and make it good to receive new window panes (M/S) an approximate area of 200sm, load and cart away the				
C	arising debris	200.00	SM		
D	Carefully remove the existing wooden doors and frames, load and store as directed by the client and make good surfaces to receive new wooden doors (m/s) , Approximate No. of 164	164.00	NO		
E	Carefully remove the existing WCs, load and store as directed by the client and make good surfaces to receive new WCs (m/s) , Approximate No. of 84	84.00	NO		
F	Carefully remove the existing Sink, load and store as directed by the client and make good surfaces to receive new Sinks (m/s) , Approximate No. of 84	84.00	NO		
G	Carefully remove the existing Bathtub, load and store as directed by the client and make good surfaces to receive				
H	new tiling floor (m/s) , Approximate No. of 84	84.00	NO		
	Carefully Scrub down existing wall paints and make it good to receive new painting (M/S) an approximate area of 9000sm, load and cart away the arising debris	9,000.00	SM		
	Carefully take down existing ceiling finish including timber cornice, make good disturbed timber brandering and prepare to receive new ceiling (M/S) an approximate area of 720sm, load and cart away the arising debris	720.00	SM		
BH/35	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
A	Carefully demolish existing old damaged roof tiles and its accessories and dispose the waste as directed by the project manager (Approximately 740 SM)	740.00	SM		
B	GUTTER Carefully demolish existing roof gutter, eaves and dispose the waste as directed by the project manager (Approximately 243 LM)	243.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from BH/34 Brought forward from BH/35 Brought down from above				
BH/36	TOTAL FOR DEMOLITIONS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
A	<u>ROOFING</u>				
	<u>ROOF IMPROVEMENT</u>				
	<u>Sawn cypress treated as described in trusses including templates, fillets, straps, splices and hoisting 2660000 mm above ground level and with a moisture content not exceeding 12%</u>				
	Assorted timber	2,660.00	LM		
B	<u>Wrought cypress treated as described and with a moisture content not exceeding 12%</u>				
	Fascia board, size 225x50mm	240.00	LM		
C	<u>ROOF COVERING</u>				
	<u>Decra Roofing sheets</u>				
	'Stone Coated" tiles forest green/rose garnet or equal and approved size 1350x420mm overall on and fixed 50x50mm treated softwood battens at 370mm centers m/s	740.00	SM		
	Ridge cap	205.00	LM		
D	Hip cap	80.00	LM		
E	Extra for eaves course including tilting fillet	70.00	LM		
F					
BH/37	Totals Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Decoration and painting</u>				
	<u>Knot, stain prepare and apply three coats oil gloss paint to:</u>				
A	General surfaces of timber	48.00	SM		
B	Surfaces of timber 200-300mm girth	205.00	LM		
	<u>Prepare and apply three coats gloss oil paint</u>				
C	<u>to:</u> General surfaces of plastic gutters	50.00	SM		
D	Surfaces of large pipes	15.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from BH/37				
	Brought down from above				
BH/38	TOTALS FOR ROOFING CARRIED TO BUILDER'S WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>DOORS</u>				
	<u>Solid Mvule doors</u>				
A	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round;	84.00	NO		
B	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round ;				
	<u>Mvule door frames and finishes</u>	84.00	NO		
C	250x50mm door frame with three labours plugged to wall				
	25mm quadrant beading	1,209.60	LM		
D	40x20mm molded architrave	1,209.60	LM		
E	<u>Ironmongery as per 'union' catalogue or other equal and approved</u>	1,209.60	LM		
F	100mm pressed steel brass hinges	252.00	PRS		
G	3 Lever mortice lock complete with aluminum handles able to withstand high humidity level with corrosion	84.00	NO		
H	2 Lever mortice lock complete with aluminum handles	84.00	NO		
J	fixed to wall able to withstand high humidity level with corrosion				
K	<u>Metal fixing cramps</u>	168.00	NO		
	30 x 3mm. Approved door cramps 250mm. Long once bent one end drilled and screwed to wood able to withstand high humidity level with corrosion	168.00	NO		
BH/39	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Painting</u>				
	<u>Prime back of wood before fixing</u>				
A	Surfaces between 100-200mm girth	1,209.60	LM		
B	Ditto between not exceeding 100 mm ditto	2,419.20	LM		
C	General surfaces of wood	453.60	SM		
	<u>Prepare and apply 3 coats gloss oil paint to:</u>				
D	General surfaces of wood	453.60	SM		
E	Wood surfaces 100-200mm girth	1,209.60	LM		
F	Ditto between not exceeding 100 mm ditto	2,419.20	LM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from BH/39				
	Brought down from above				
BH/40	TOTAL FOR DOORS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>WINDOWS</u> Aluminum Windows -as per window schedule supply and fix <u>only extruded powder coated aluminium</u> <u>windows mitred at corners including reinforcing cleats; all accessories</u> <u>full width; snap rubber glazing beads and</u> <u>sealing strips; and all necessary ironmongery; all to</u> <u>Architect's approval, all to comply with Architects details</u> <u>& schedule</u>				
A	Window size 1200mm x 1500 high Window	168.00	NO		
B	size 1200mm x 900 high <u>Prepare and apply 3</u>	84.00	SM		
C	<u>coats of gloss oil to:</u> Railing	60.00	SM		
BH/41	TOTAL FOR WINDOWS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>FINISHES</u>				
	<u>EXTERNAL FINISHINGS</u>				
	<u>Painting</u>				
A	Rendered surfaces	9,000.00	SM		
	<u>Wall Finishes</u>				
	<u>12 mm Thick cement and sand (1:3) plaster to:-</u>				
B	Wall internally.	2,460.00	SM		
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic wall tiles/wool carpet (m/s).</u>				
C	30 mm Thick screed.	840.00	SM		
	<u>Imported wall tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;</u>				
D	600 x 300 x 8 mm Thick Imported wall tiles fixed with an approved adhesive.	2,460.00	SM		
	<u>Prepare and apply three coats of first grade silk vinyl emulsion paint to:</u>				
E	Ditto but existing walls.	9,000.00	SM		
BH/42	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued FLOORS</u>				
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic floor tiles/wool carpet (m/s).</u>				
A	30 mm Thick screed.	3,000.00	SM		
	<u>Non slip Imported Wood like floor tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;</u>				
B	400 x 400 x 8 mm Thick Non slip Imported Wood like floor tiles fixed with an approved adhesive.	3,000.00	SM		
C	Ditto 150 x 400 x 8mm skirting ditto	1,500.00	LM		
	<u>CEILING FINISHES</u>				
	<u>Ceiling finishes</u>				
	<u>The following in wrot cypress</u> Cornice; 100				
D	x 25mm molded cornice	1,500.00	LM		
E	25 x 100mm Tongue & Grooved boarding secret nailed to and including 50 x 50mm celcured wrot cypress bearers or brandering at 600mm centres	145.80	SM		
	<u>In sawn second grade pressure impregnated cypress. 50 x</u>				
F	50mm timber brandering	1,800.00	LM		
G	Ditto but plugged	420.00	LM		
	<u>Gypsum ceiling</u>				
H	Gypsum ceiling fixed to timber brandering (m/s) at 600mm both ways including strips and other necessary accessories.	1,920.00	SM		
BH/43	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued</u>				
	<u>Painting and Decorations</u>				
	<u>Tongue & Grooved timber surfaces</u>				
	<u>Prepare and apply three coats of 'CROWN SOLO' or other equal and approved polyurethane varnish to:-</u>				
A	Surfaces of eaves; over 300mm girth external Frames	145.80	sm		
B	over 100mm but not exceeding 200mm girth	2,220.00	lm		
	<u>Prepare and apply three coats first quality silk vinyl paint on the following surfaces, internally:</u>				
C	Gypsum board ceiling Soffits of	1,920.00	sm		
D	slabs	2,824.00	sm		
E	Extra over celotex ceiling for trap door size 600 x 450 mm wide comprising and including 50x50mm timber framing	10.00	NO		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from W.R/9 Brought forward from W.R/10 Brought down from above				
BH/44	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	JOINERY FITTINGS				
	<u>Wardrobes</u>				
A	Carefully pull down the following in 25mm thick blockboards sides, divisions and doors with first quality mahogany veneer facing on both faces; hardwood lipping on all exposed edges; including all necessary ironmongery	84.00	NO		
	Wardrobe size 2000mm long x 600mm deep x 2400mm high overall:				
	<u>Drawers</u>				
B	Carefully pull down the following in 25mm thick blockboards sides with first quality mahogany veneer facing on both faces; 6mm thick plywood bottoms; including all necessary ironmongery	252.00	NO		
	Drawer size 450x550x150mm deep				
C	<u>Ironmongery</u>	336.00	NO		
	Wardrobe door handles				
	<u>Mirror</u>				
D	6 mm Float plate silver coated mirror size 2000x450mm high	84.00	NO		
BH/45	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

[illegible]

SABAKI HOSTEL

ITEM	DESCRIPTION	QTY	UNIT		
	WASHROOMS BUILDER'S WORKS CAREFUL DEMOLITION WORKS The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc. as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is				
	to be executed to the satisfaction of the Project 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 carted 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				
A	Carefully demolish the existing wall tiles, and make good surfaces to receive new Granito wall tiles (m/s) , Approximate area of 720sm load and cart away the arising debris	720.00	SM		
B	Carefully hack the existing floor finish and make it good to receive new screed (M/S) an approximate area of 1200sm, load and cart away the arising debris	1,200.00	SM		
SB/48	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	DEMOLITION - (CONTINUED)				
A	Carefully polish/scrub off existing parquet floor finish, repair damaged floor sections and prepare surfaces to receive new varnish (m/s) , Approximate area of 100sm.				
B	Carefully remove the existing broken window panes and make it good to receive new window panes (M/S) an approximate area of 80sm, load and cart away the arising debris	80.00	SM		
C	Carefully remove the existing wooden doors and frames, load and store as directed by the client and make good surfaces to receive new wooden doors (m/s) , Approximate No. of 90	90.00	NO		
D	Carefully remove the existing WCs, load and store as directed by the client and make good surfaces to receive new WCs (m/s) , Approximate No. of 30	90.00	NO		
E	Carefully remove the existing Sink, load and store as directed by the client and make good surfaces to receive new Sinks (m/s) , Approximate No. of 30	90.00	NO		
F	Carefully remove the existing Bathtub, load and store as directed by the client and make good surfaces to receive new tiling floor (m/s) , Approximate No. of 30	90.00	NO		
G	Carefully Scrub down existing wall paints and make it good to receive new painting (M/S) an approximate area of 3648sm, load and cart away the arising debris	3,648.00	SM		
H	Carefully take down existing ceiling finish including timber cornice, make good disturbed timber brandering and prepare to receive new ceiling (M/S) an approximate area of 300 sm, load and cart away the arising debris	300.00	SM		
SB/49	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
A	Carefully demolish existing old damaged roof tiles and its accessories and dispose the waste as directed by the project manager (Approximately 340 SM)	340.00	SM		
B	GUTTER Carefully demolish existing roof gutter, eaves and dispose the waste as directed by the project manager (Approximately 100 LM)	100.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from SB/48 Brought forward from SB/49 Brought down from above				
SB/50	TOTAL FOR DEMOLITIONS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>ROOFING</u>				
	<u>ROOF IMPROVEMENT</u>				
	<u>Sawn cypress treated as described in trusses including templates, fillets, straps, splices and hoisting 1330000mm above ground level and with a moisture content not exceeding 12%</u>				
A	Assorted timber	1,330.00	LM		
	<u>Wrought cypress treated as described and with a moisture content not exceeding 12%</u>				
B	Fascia board, size 225x50mm	100.00	LM		
	<u>ROOF COVERING</u>				
	<u>Decra Roofing sheets</u>				
C	"Stone Coated" tiles forest green/rose garnet or equal and approved size 1350x420mm overall on and fixed 50x50mm treated softwood battens at 370mm centres m/s	340.00	SM		
D	Ridge cap	105.00	LM		
E	Hip cap	20.00	LM		
F	Extra for eaves course including tilting fillet	10.00	LM		
SB/51	Totals Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Decoration and painting</u>				
	<u>Knot, stain prepare and apply three coats oil gloss paint to:</u>				
A	General surfaces of timber	20.00	SM		
B	Surfaces of timber 200-300mm girth	105.00	LM		
	<u>Prepare and apply three coats gloss oil paint to:</u>				
C	General surfaces of plastic gutters	50.00	SM		
D	Surfaces of large pipes	15.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from SB/51 Brought down from above				
SB/52	TOTALS FOR ROOFING CARRIED TO BUILDER'S WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>DOORS</u>				
A	<u>Solid Mvule doors</u>				
	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round ;	60.00	NO		
B	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round ;	30.00	NO		
	<u>Mvule door frames and finishes</u>				
C	250x50mm door frame with three labours plugged to wall	648.00	LM		
D	25mm quadrant beading 40x20mm molded	648.00	LM		
E	architrave	648.00	LM		
	<u>Ironmongery as per 'union' catalogue or other equal and approved</u>				
F	100mm pressed steel brass hinges	135.00	PRS		
G	3 Lever mortice lock complete with aluminum handles able to withstand high humidity level with corrosion	60.00	NO		
H	2 Lever mortice lock complete with aluminum handles	30.00	NO		
J	fixed to wall able to withstand high humidity level with corrosion	90.00	NO		
	<u>Metal fixing cramps</u>				
K	30 x 3mm. Approved door cramps 250mm. Long once bent one end drilled and screwed to wood able to withstand high humidity level with corrosion	90.00	NO		
SB/53	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Painting</u>				
	<u>Prime back of wood before fixing</u>				
A	Surfaces between 100-200mm girth	648.00	LM		
B	Ditto between not exceeding 100 mm ditto General	1,296.00	LM		
C	surfaces of wood	243.00	SM		
	<u>Prepare and apply 3 coats gloss oil paint to:</u>				
D	General surfaces of wood	243.00	SM		
E	Wood surfaces 100-200mm girth	648.00	LM		
F	Ditto between not exceeding 100 mm ditto	1,296.00	LM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from SB/53 Brought down from above				
SB/54	TOTAL FOR DOORS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>WINDOWS</u> <u>Aluminum Windows -as per window schedule supply and fix only</u> <u>extruded powder coated aluminum</u> <u>windows mitred at corners including reinforcing cleats; all accessories</u> <u>full width; snap rubber glazing beads and</u> <u>sealing strips; and all necessary ironmongery; all to</u> <u>Architect's approval, all to comply with Architects details</u> <u>& schedule</u>				
A	Window size 1200mm x 1500 high	60.00	NO		
B	Window size 1200mm x 900 high <u>Prepare and apply 3 coats of</u>	60.00	SM		
C	<u>gloss oil to:</u> Railing	90.00	SM		
SB/55	TOTAL FOR WINDOWS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>FINISHES</u>				
	<u>EXTERNAL FINISHINGS</u>				
	<u>Painting</u>				
A	Rendered surfaces	3,648.00	SM		
	<u>Wall Finishes</u>				
B	12 mm Thick cement and sand (1:3) plaster to:- Wall internally.	720.00	SM		
C	Cement and sand (1:4) screed trowelled smooth to receive ceramic wall tiles/wool carpet (m/s). 30 mm Thick screed.	120.00	SM		
D	Imported wall tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in: 600 x 300 x 8 mm Thick Imported wall tiles fixed with an approved adhesive.	720.00	SM		
E	Prepare and apply three coats of first grade silk vinyl emulsion paint to: Ditto but existing walls.	3,648.00	SM		
SB/56	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued FLOORS</u>				
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic floor tiles/wool carpet (m/s).</u>				
	30 mm Thick screed.				
A	<u>Non slip Imported Wood like floor tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in:</u>	1,200.00	SM		
	400 x 400 x 8 mm Thick Non slip Imported Wood like floor tiles fixed with an approved adhesive.				
B	Ditto 150 x 400 x 8mm skirting ditto	1,200.00	SM		
C	<u>CEILING FINISHES</u>	600.00	LM		
	<u>Ceiling finishes</u>				
	<u>The following in wrot cypress</u> Cornice; 100				
	x 25mm moulded				
D	cornice	600.00	LM		
E	25 x 100mm Tongue & Grooved boarding secret nailed to and including 50 x 50mm celcured wrot cypress bearers or brandering at 600mm centres	60.00	SM		
	<u>In sawn second grade pressure impregnated cypress.</u> 50 x				
F	50mm timber brandering	750.00	LM		
G	Ditto but plugged	150.00	LM		
	<u>Gypsum ceiling</u>				
H	Gypsum ceiling fixed to timber brandering (m/s) at 600mm both ways including strips and other necessary accessories.	780.00	SM		
SB/57	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued</u>				
	<u>Painting and Decorations</u>				
	<u>Tongue & Grooved timber surfaces</u>				
	<u>Prepare and apply three coats of 'CROWN SOLO' or other equal and approved polyurethane varnish to:-</u>				
A	Surfaces of eaves; over 300mm girth external Frames over	60.00	sm		
B	100mm but not exceeding 200mm girth	900.00	lm		
	<u>Prepare and apply three coats first quality silk vinyl paint on the following surfaces, internally:</u>				
C	Gypsum board ceiling	780.00	sm		
D	Soffits of slabs	1,200.00	sm		
E	Extra over celotex ceiling for trap door size 600 x 450 mm wide comprising and including 50x50mm timber framing	5.00	NO		
SB/58	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>COLLECTIONS</u> Brought forward from SB/56 Brought forward from SB/57 Brought forward from SB/58				
SB/59	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>JOINERY FITTINGS</u> <u>Wardrobes</u> Carefully pull down the following in 25mm thick blockboards sides, divisions and doors with first quality mahogany veneer facing on both faces; hardwood lipping on all exposed edges; including all necessary ironmongery A Wardrobe size 2000mm long x 600mm deep x 2400mm high overall: 30.00 NO <u>Drawers</u> Carefully pull down the following in 25mm thick blockboards sides with first quality mahogany veneer facing on both faces; 6mm thick plywood bottoms; including all necessary ironmongery B Drawer size 450x550x150mm deep 90.00 NO <u>Ironmongery</u> D Wardrobe door handles 120.00 NO <u>Mirror</u> E 6 mm Float plate silver coated mirror size 2000x450mm high 30.00 NO				
SB/60	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>SECTION SUMMARY</u>				
1	Demolitions brought forward from	SB/50			
2	Roof brought forward from	SB/52			
2	Doors brought forward from	SB/54			
3	Windows brought forward from	SB/55			
4	Finishes brought forward from	SB/59			
5	Finishes brought forward from	SB/60			
SB/61	TOTAL BUILDER'S WORKS FOR SABAKI HOSTEL CARRIED TO COLLECTION				

GALANA HOSTELS

ITEM	DESCRIPTION	QTY	UNIT		
	WASHROOMS BUILDERS' WORKS CAREFUL DEMOLITION WORKS The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc. as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is				
	to be executed to the satisfaction of the Project 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 carted 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				
A	Carefully demolish the existing wall tiles, and make good surfaces to receive new Granito wall tiles (m/s) , Approximate area of 324 sm load and cart away the arising debris	324.00	SM		
B	Carefully hack the existing floor finish and make it good to receive new screed (M/S) an approximate area of 546 sm, load and cart away the arising debris	546.00	SM		
GN/63	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>DEMOLITION - (CONTINUED)</u>				
A	Carefully polish/scrub off existing parquet floor finish, repair damaged floor sections and prepare surfaces to receive new vanish (m/s) , Approximate area of 100sm.				
B	Carefully remove the existing broken window panes and make it good to receive new window panes (M/S) an approximate area of 30 sm, load and cart away the arising debris	30.00	SM		
C	Carefully remove the existing wooden doors and frames, load and store as directed by the client and make good surfaces to receive new wooden doors (m/s) , Approximate No. of 24	48.00	NO		
D	Carefully remove the existing WCs, load and store as directed by the client and make good surfaces to receive new WCs (m/s) , Approximate No. of 24	24.00	NO		
E	Carefully remove the existing Sink, load and store as directed by the client and make good surfaces to receive new Sinks (m/s), Approximate No. of 24	24.00	NO		
F	Carefully remove the existing Bathtub, load and store as directed by the client and make good surfaces to receive new tiling floor (m/s) , Approximate No. of 24	24.00	NO		
G	Carefully Scrub down existing wall paints and make it good to receive new painting (M/S) an approximate area of 2832sm, load and cart away the arising debris	2,832.00	SM		
H	Carefully take down existing ceiling finish including timber cornice, make good disturbed timber brandering and prepare to receive new ceiling (M/S) an approximate area of 273 sm, load and cart away the arising debris	273.00	SM		
GN/64	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
A	Carefully demolish existing old damaged roof tiles and its accessories and dispose the waste as directed by the project manager (Approximately 300 SM)	300.00	SM		
B	GUTTER Carefully demolish existing roof gutter, eaves and dispose the waste as directed by the project manager (Approximately 100 LM)	100.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from GN/63 Brought forward from GN/64 Brought down from above				
GN/65	TOTAL FOR DEMOLITIONS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>ROOFING</u>				
	<u>ROOF IMPROVEMENT</u>				
	<u>Sawn cypress treated as described in trusses including templates, fillets, straps, splices and hoisting 1330000mm above ground level and with a moisture content not exceeding 12%</u>				
A	Assorted timber	1,330.00	LM		
	<u>Wrought cypress treated as described and with a moisture content not exceeding 12%</u>				
B	Fascia board, size 225x50mm	100.00	LM		
	<u>ROOF COVERING</u>				
	<u>Decra Roofing sheets</u>				
C	'Stone Coated" tiles forest green/rose garnet or equal and approved size 1350x420mm overall on and fixed 50x50mm treated softwood battens at 370mm centers m/s	300.00	SM		
D	Ridge cap	105.00	LM		
E	Hip cap	35.00	LM		
F	Extra for eaves course including tilting fillet	15.00	LM		
GN/66	Totals Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Decoration and painting</u>				
	<u>Knot, stain prepare and apply three coats oil gloss paint to:</u>				
A	General surfaces of timber	20.00	SM		
B	Surfaces of timber 200-300mm girth	105.00	LM		
	<u>Prepare and apply three coats gloss oil paint to: General</u>				
C	surfaces of plastic gutters	50.00	SM		
D	Surfaces of large pipes	15.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from GN/66				
	Brought down from above				
GN/67	TOTALS FOR ROOFING CARRIED TO BUILDER'S WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>DOORS</u>				
	<u>Solid Mvule doors</u>				
A	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round;	24.00	NO		
B	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round;	24.00	NO		
	<u>Mvule door frames and finishes</u>				
C	250x50mm door frame with three labours plugged to wall	345.60	LM		
D	25mm quadrant beading	345.60	LM		
E	40x20mm molded architrave	345.60	LM		
	<u>Ironmongery as per 'union' catalogue or other equal and approved</u>				
F	100mm pressed steel brass hinges	72.00	PRS		
G	3 Lever mortice lock complete with aluminum handles able to withstand high humidity level with corrosion	24.00	NO		
H	2 Lever mortice lock complete with aluminum handles	24.00	NO		
J	fixed to wall able to withstand high humidity level with corrosion	48.00	NO		
	<u>Metal fixing cramps</u>				
K	30 x 3mm. Approved door cramps 250mm. Long once bent one end drilled and screwed to wood able to withstand high humidity level with corrosion	48.00	NO		
GN/68	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Painting</u>				
	<u>Prime back of wood before fixing</u>				
A	Surfaces between 100-200mm girth	345.60	LM		
B	Ditto between not exceeding 100 mm ditto General	691.20	LM		
C	surfaces of wood	129.60	SM		
	<u>Prepare and apply 3 coats gloss oil paint to: General</u>				
D	surfaces of wood	129.60	SM		
E	Wood surfaces 100-200mm girth	345.60	LM		
F	Ditto between not exceeding 100 mm ditto	691.20	LM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from GN/68				
	Brought down from above				
GN/69	TOTAL FOR DOORS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	WINDOWS Aluminum Windows -as per window schedule supply and fix only extruded powder coated aluminum windows mitred at corners including reinforcing cleats; all accessories full width; snap rubber glazing beads and sealing strips; and all necessary ironmongery; all to Architect's approval, all to comply with Architects details & schedule				
A	Window size 1200mm x 1500 high	24.00	NO		
B	Window size 1200mm x 900 high	24.00	SM		
C	Prepare and apply 3 coats of gloss oil to: Railing	20.00	SM		
GN/70	TOTAL FOR WINDOWS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>FINISHES</u>				
	<u>EXTERNAL FINISHINGS</u>				
	<u>Painting</u>				
A	 Rendered surfaces	2,832.00	SM		
	<u>Wall Finishes</u>				
	<u>12 mm thick cement and sand (1:3) plaster to: -</u>				
B	Wall internally.	324.00	SM		
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic wall tiles/wool carpet (m/s).</u>				
C	30 mm thick screed.	48.00	SM		
	<u>Imported wall tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;</u>				
D	600 x 300 x 8 mm Thick Imported wall tiles fixed with an approved adhesive.	324.00	SM		
	<u>Prepare and apply three coats of first grade silk vinyl emulsion paint to:</u>				
E	Ditto but existing walls.	2,832.00	SM		
GN/71	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued</u>				
	<u>FLOORS</u>				
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic floor tiles/wool carpet (m/s).</u>				
A	30 mm Thick screed.	546.00	SM		
	<u>Non slip Imported Wood like floor tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;</u>				
B	400 x 400 x 8 mm Thick Non slip Imported Wood like floor tiles fixed with an approved adhesive.	546.00	SM		
C	Ditto 150 x 400 x 8mm skirting ditto	273.00	LM		
	<u>CEILING FINISHES</u>				
	<u>Ceiling finishes</u>				
	<u>The following in wrot cypress</u>				
D	Cornice; 100 x 25mm molded cornice	273.00	LM		
E	25 x 100mm Tongue & Grooved boarding secret nailed to and including 50 x 50mm celcured wrot cypress bearers or brandering at 600mm centers	60.00	SM		
	<u>In sawn second grade pressure impregnated cypress. 50 x</u>				
F	50mm timber brandering	682.50	LM		
G	Ditto but plugged	136.50	LM		
	<u>Gypsum ceiling</u>				
H	Gypsum ceiling fixed to timber brandering (m/s) at 600mm both ways including strips and other necessary accessories.	491.40	SM		
GN/72	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued</u>				
	<u>Painting and Decorations</u>				
	<u>Tongue & Grooved timber surfaces</u>				
	<u>Prepare and apply three coats of 'CROWN SOLO' or other equal and approved polyurethane varnish to:-</u>				
A	Surfaces of eaves; over 300mm girth external	60.00	sm		
B	Frames over 100mm but not exceeding 200mm girth	819.00	lm		
	<u>Prepare and apply three coats first quality silk vinyl paint on the following surfaces, internally:</u>				
C	Gypsum board ceiling	491.40	sm		
D	Soffits of slabs	546.00	sm		
E	Extra over celotex ceiling for trap door size 600 x 450 mm wide comprising and including 50x50mm timber framing	5.00	NO		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from GN/71				
	Brought forward from GN/72				
	Brought down from above				
GN/73	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>JOINERY FITTINGS</u>				
	<u>Wardrobes</u>				
	Carefully pull down the following in 25mm thick blockboards sides, divisions and doors with first quality mahogany veneer facing on both faces; hardwood lipping on all exposed edges; including all necessary ironmongery				
A	Wardrobe size 2000mm long x 600mm deep x 2400mm high overall:	24.00	NO		
	<u>Drawers</u>				
	Carefully pull down the following in 25mm thick blockboards sides with first quality mahogany veneer facing on both faces; 6mm thick plywood bottoms; including all necessary ironmongery				
B	Drawer size 450x550x150mm deep	72.00	NO		
D	<u>Ironmongery</u>	96.00	NO		
	Wardrobe door handles				
E	<u>Mirror</u>	24.00	NO		
	6 mm Float plate silver coated mirror size 2000x450mm high				
GN/74	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>SECTION SUMMARY</u>				
1	Demolitions brought forward from	GN/65			
2	Roof brought forward from	GN/67			
2	Doors brought forward from	GN/69			
3	Windows brought forward from	GN/70			
4	Finishes brought forward from	GN/73			
5	Finishes brought forward from	GN/74			
GN/75	TOTAL BUILDER'S WORKS FOR GALANA HOSTEL CARRIED TO COLLECTION				

MZIMA HOSTELS

ITEM	DESCRIPTION	QTY	UNIT		
	WASHROOMS BUILDERS WORKS CAREFUL DEMOLITION WORKS The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc. as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is				
	to be executed to the satisfaction of the Project 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 carted 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.				
A	Carefully demolish the existing wall tiles, and make good surfaces to receive new Granito wall tiles (m/s) . Approximate area of 1656 sm load and cart away the arising debris	1,656.00	SM		
B	Carefully hack the existing floor finish and make it good to receive new screed (M/S) an approximate area of 1500 sm, load and cart away the arising debris	1,500.00	SM		
MZ/77	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	DEMOLITION - (CONTINUED)				
	Carefully polish/scrub off existing parquet floor finish, repair damaged floor sections and prepare surfaces to receive new varnish (m/s) , Approximate area of 100sm.				
A	Carefully remove the existing broken window panes and make it good to receive new window panes (M/S) an approximate area of 70 sm, load and cart away the arising debris	70.00	SM		
B	Carefully remove the existing wooden doors and frames, load and store as directed by the client and make good surfaces to receive new wooden doors (m/s) , Approximate No. of 138	138.00	NO		
C	Carefully remove the existing WCs, load and store as directed by the client and make good surfaces to receive new WCs (m/s) , Approximate No. of 69	69.00	NO		
D	Carefully remove the existing Sink, load and store as directed by the client and make good surfaces to receive new Sinks (m/s) , Approximate No. of 69	69.00	NO		
E	Carefully remove the existing Bathtub, load and store as directed by the client and make good surfaces to receive				
F	new tiling floor (m/s) , Approximate No. of 69	69.00	NO		
G	Carefully Scrub down existing wall paints and make it good to receive new painting (M/S) an approximate area of 7860 sm, load and cart away the arising debris	7,860.00	SM		
H	Carefully take down existing ceiling finish including timber cornice, make good disturbed timber brandering and prepare to receive new ceiling (M/S) an approximate area of 500 sm, load and cart away the arising debris	500.00	SM		
MZ/78	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
A	Carefully demolish existing old damaged roof tiles and its accessories and dispose the waste as directed by the project manager (Approximately 600 SM)	600.00	SM		
B	GUTTER Carefully demolish existing roof gutter, eaves and dispose the waste as directed by the project manager (Approximately 150 LM)	150.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from MZ/77 Brought forward from MZ/78 Brought down from above				
MZ/79	TOTAL FOR DEMOLITIONS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>ROOFING</u>				
	<u>ROOF IMPROVEMENT</u>				
	Sawn cypress treated as described in trusses including templates, fillets, straps, splices and hoisting 1800000mm above ground level and with a moisture content not exceeding 12%				
A	Assorted timber	1,800.00	LM		
	<u>Wrought cypress treated as described and with a moisture content not exceeding 12%</u>				
B	Fascia board, size 225x50mm	150.00	LM		
	<u>ROOF COVERING</u>				
	<u>Decra Roofing sheets</u>				
C	'Stone Coated" tiles forest green/rose garnet or equal and approved size 1350x420mm overall on and fixed 50x50mm treated softwood battens at 370mm centers m/s	600.00	SM		
D	Ridge cap	180.00	LM		
E	Hip cap	90.00	LM		
F	Extra for eaves course including tilting fillet	30.00	LM		
Mz/80	Totals Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Decoration and painting</u>				
	<u>Knot, stain prepare and apply three coats oil gloss paint to:</u>				
A	General surfaces of timber	30.00	SM		
B	Surfaces of timber 200-300mm girth	180.00	LM		
	<u>Prepare and apply three coats gloss oil paint to:</u>				
C	General surfaces of plastic gutters	30.00	SM		
D	Surfaces of large pipes	24.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from MZ/80				
	Brought down from above				
MZ/81	TOTALS FOR ROOFING CARRIED TO BUILDER'S WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>DOORS</u>				
	<u>Solid Mvule doors</u>				
A	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round;	69.00	NO		
B	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round;	69.00	NO		
	<u>Mvule door frames and finishes</u>				
C	250x50mm door frame with three labours plugged to wall	993.60	LM		
D	25mm quadrant beading	993.60	LM		
E	40x20mm molded architrave	993.60	LM		
	<u>Ironmongery as per 'union' catalogue or other equal and approved</u>				
F	100mm pressed steel brass hinges	207.00	PRS		
G	3 Lever mortice lock complete with aluminum handles able to withstand high humidity level with corrosion	69.00	NO		
H	2 Lever mortice lock complete with aluminum handles	69.00	NO		
J	fixed to wall able to withstand high humidity level with corrosion	138.00	NO		
	<u>Metal fixing cramps</u>				
K	30 x 3mm. Approved door cramps 250mm. Long once bent one end drilled and screwed to wood able to withstand high humidity level with corrosion	138.00	NO		
MZ/82	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Painting</u>				
	<u>Prime back of wood before fixing</u>				
A	Surfaces between 100-200mm girth	993.60	LM		
B	Ditto between not exceeding 100 mm ditto	1,987.20	LM		
C	General surfaces of wood	372.60	SM		
	<u>Prepare and apply 3 coats gloss oil paint to:</u>				
D	General surfaces of wood	372.60	SM		
E	Wood surfaces 100-200mm girth	993.60	LM		
F	Ditto between not exceeding 100 mm ditto	1,987.20	LM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from MZ/82				
	Brought down from above				
MZ/83	TOTAL FOR DOORS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	WINDOWS Aluminum Windows -as per window schedule supply and fix only extruded powder coated aluminum windows mitred at corners including reinforcing cleats; all accessories full width; snap rubber glazing beads and sealing strips; and all necessary ironmongery; all to Architect's approval, all to comply with Architects details & schedule				
A	Window size 1800mm x 1500 high	69.00	NO		
B	Window size 1200mm x 900 high	69.00	SM		
C	Prepare and apply 3 coats of gloss oil to: Railing	40.00	SM		
MZ/84	TOTAL FOR WINDOWS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>FINISHES</u>				
	<u>EXTERNAL FINISHINGS</u>				
	<u>Painting</u>				
A	 Rendered surfaces	7,860.00	SM		
	<u>Wall Finishes</u>				
	<u>12 mm Thick cement and sand (1:3) plaster to:-</u>				
B	Wall internally.	1,656.00	SM		
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic wall tiles/wool carpet (m/s).</u>				
C	30 mm Thick screed.	48.00	SM		
	<u>Imported wall tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;</u>				
D	600 x 300 x 8 mm Thick Imported wall tiles fixed with an approved adhesive.	1,656.00	SM		
	<u>Prepare and apply three coats of first grade silk vynil emulsion paint to:</u>				
E	Ditto but existing walls.	7,860.00	SM		
MZ/85	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued FLOORS</u>				
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic floor tiles/wool carpet (m/s).</u>				
	30 mm Thick screed.				
A	<u>Non slip Imported Wood like floor tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;</u>	1,500.00	SM		
	400 x 400 x 8 mm Thick Non slip Imported Wood like floor tiles fixed with an approved adhesive.				
B	Ditto 150 x 400 x 8mm skirting ditto	1,500.00	SM		
C	<u>CEILING FINISHES</u>	750.00	LM		
	<u>Ceiling finishes</u>				
	<u>The following in wrot cypress</u> Cornice;				
	100 x 25mm moulded cornice				
D	25 x 100mm Tongue & Grooved boarding secret nailed to and including 50 x 50mm celcured wrot cypress bearers or brandering at 600mm centres	750.00	LM		
E	<u>In sawn second grade pressure impregnated cypress.</u>	90.00	SM		
	50 x 50mm timber brandering				
F	Ditto but plugged	1,250.00	LM		
G	<u>Gypsum ceiling</u>	250.00	LM		
H	Gypsum ceiling fixed to timber brandering (m/s) at 600mm both ways including strips and other necessary accessories.	1,100.00	SM		
MZ/86	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued</u>				
	<u>Painting and Decorations</u>				
	<u>Tongue & Grooved timber surfaces</u>				
	<u>Prepare and apply three coats of 'CROWN SOLO' or other equal and approved polyurethane varnish to:-</u>				
A	Surfaces of eaves; over 300mm girth external Frames	90.00	sm		
B	over 100mm but not exceeding 200mm girth	1,500.00	lm		
	<u>Prepare and apply three coats first quality silk vinyl paint on the following surfaces, internally:</u>				
C	Gypsum board ceiling	1,100.00	sm		
D	Soffits of slabs	1,500.00	sm		
E	Extra over celotex ceiling for trap door size 600 x 450 mm wide comprising and including 50x50mm timber framing	5.00	NO		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from MZ/85				
	Brought forward from MZ/86				
	Brought down from above				
MZ/87	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>JOINERY FITTINGS</u>				
	<u>Wardrobes</u>				
	Carefully pull down the following in 25mm thick blockboards sides, divisions and doors with first quality mahogany veneer facing on both faces; hardwood lipping on all exposed edges; including all necessary ironmongery				
A	Wardrobe size 2000mm long x 600mm deep x 2400mm high overall:	69.00	NO		
	<u>Drawers</u>				
	Carefully pull down the following in 25mm thick blockboards sides with first quality mahogany veneer facing on both faces; 6mm thick plywood bottoms; including all necessary ironmongery				
B	Drawer size 450x550x150mm deep	207.00	NO		
	<u>Ironmongery</u>				
C	Wardrobe door handles	276.00	NO		
	<u>Mirror</u>				
D	6 mm Float plate silver coated mirror size 2000x450mm high	69.00	NO		
MZZ/88	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

MARERE HOSTELS

ITEM	DESCRIPTION	QTY	UNIT		
	<u>WASHROOMS BUILDERS' WORKS</u> <u>CAREFUL DEMOLITION WORKS</u> The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is				
	to be executed to the satisfaction of the Project 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 carted 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				
A	Carefully demolish the existing wall tiles, and make good surfaces to receive new Granito wall tiles (m/s) , Approximate area of 552 sm load and cart away the arising debris	552.00	SM		
B	Carefully hack the existing floor finish and make it good to receive new screed (M/S) an approximate area of 500 sm, load and cart away the arising debris	500.00	SM		
MH/91	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	DEMOLITION - (CONTINUED)				
	Carefully polish/scrub off existing parquet floor finish, repair damaged floor sections and prepare surfaces to receive new varnish (m/s) , Approximate area of 100sm.				
A	Carefully remove the existing broken window panes and make it good to receive new window panes (M/S) an approximate area of 70 sm, load and cart away the arising debris	20.00	SM		
B	Carefully remove the existing wooden doors and frames, load and store as directed by the client and make good surfaces to receive new wooden doors (m/s) , Approximate No. of 46	46.00	NO		
C	Carefully remove the existing WCs, load and store as directed by the client and make good surfaces to receive new WCs (m/s) , Approximate No. of 23	23.00	NO		
D	Carefully remove the existing Sink, load and store as directed by the client and make good surfaces to receive new Sinks (m/s) , Approximate No. of 23	23.00	NO		
E	Carefully remove the existing Bathtub, load and store as directed by the client and make good surfaces to receive new tiling floor (m/s) , Approximate No. of 23	23.00	NO		
F	Carefully Scrub down existing wall paints and make it good to receive new painting (M/S) an approximate area of 1968 sm, load and cart away the arising debris	1,968.00	SM		
G	Carefully take down existing ceiling finish including timber cornice, make good disturbed timber brandering and prepare to receive new ceiling (M/S) an approximate area of 500 sm, load and cart away the arising debris	500.00	SM		
H					
MH/92	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
A	Carefully demolish existing old damaged roof tiles and its accessories and dispose the waste as directed by the project manager (Approximately 600 SM)	600.00	SM		
B	GUTTER Carefully demolish existing roof gutter, eaves and dispose the waste as directed by the project manager (Approximately 150 LM)	150.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from MH/91 Brought forward from MH/92 Brought down from above				
MH/93	TOTAL FOR DEMOLITIONS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>ROOFING</u>				
	<u>ROOF IMPROVEMENT</u>				
	<u>Sawn cypress treated as described in trusses including templates, fillets, straps, splices and hoisting 1800000mm above ground level and with a moisture content not exceeding 12%</u>				
A	Assorted timber	1,800.00	LM		
	<u>Wrought cypress treated as described and with a moisture content not exceeding 12%</u>				
B	Fascia board, size 225x50mm	150.00	LM		
	<u>ROOF COVERING</u>				
C	<u>Decra Roofing sheets</u>				
	'Stone Coated" tiles forest green/rose garnet or equal and approved size 1350x420mm overall on and fixed 50x50mm treated softwood battens at 370mm centers m/s	600.00	SM		
D	Ridge cap	180.00	LM		
E	Hip cap	90.00	LM		
F	Extra for eaves course including tilting fillet	30.00	LM		
MH/94	Totals Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Decoration and painting</u>				
	<u>Knot, stain prepare and apply three coats oil gloss paint to:</u>				
A	General surfaces of timber	30.00	SM		
B	Surfaces of timber 200-300mm girth	180.00	LM		
	<u>Prepare and apply three coats gloss oil paint to: General</u>				
C	surfaces of plastic gutters	30.00	SM		
D	Surfaces of large pipes	24.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from MH/94				
	Brought down from above				
MH/95	TOTALS FOR ROOFING CARRIED TO BUILDER'S WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>DOORS</u>				
	<u>Solid Mvule doors</u>				
A	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round;	23.00	NO		
B	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round;	23.00	NO		
	<u>Mvule door frames and finishes</u>				
C	250x50mm door frame with three labours plugged to wall	331.20	LM		
D	25mm quadrant beading 40x20mm	331.20	LM		
E	molded architrave	331.20	LM		
	<u>Ironmongery as per 'union' catalogue or other equal and approved</u>				
F	100mm pressed steel brass hinges	69.00	PRS		
G	3 Lever mortice lock complete with aluminum handles able to withstand high humidity level with corrosion	23.00	NO		
H	2 Lever mortice lock complete with aluminum handles	23.00	NO		
J	fixed to wall able to withstand high humidity level with corrosion	46.00	NO		
	<u>Metal fixing cramps</u>				
K	30 x 3mm. Approved door cramps 250mm. Long once bent one end drilled and screwed to wood able to withstand high humidity level with corrosion	46.00	NO		
MH/96	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Painting</u>				
	<u>Prime back of wood before fixing</u>				
A	Surfaces between 100-200mm girth	331.20	LM		
B	Ditto between not exceeding 100 mm ditto	662.40	LM		
C	General surfaces of wood	124.20	SM		
	<u>Prepare and apply 3 coats gloss oil paint to:</u>				
D	General surfaces of wood	124.20	SM		
E	Wood surfaces 100-200mm girth	331.20	LM		
F	Ditto between not exceeding 100 mm ditto	662.40	LM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from MH/96				
	Brought down from above				
MH/97	TOTAL FOR DOORS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>WINDOWS</u>				
	Aluminum Windows -as per window schedule supply and fix only extruded powder coated aluminum windows mitred at corners including reinforcing cleats; all accessories full width; snap rubber glazing beads and sealing strips; and all necessary ironmongery; all to Architect's approval, all to comply with Architects details & schedule				
A	Window size 1800mm x 1500 high	23.00	NO		
B	Window size 1200mm x 900 high	23.00	SM		
C	Prepare and apply 3 coats of gloss oil to: Railing	40	SM		
MH/98	TOTAL FOR WINDOWS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	FINISHES				
	EXTERNAL FINISHINGS				
	Painting				
A	Rendered surfaces	1,968.00	SM		
	Wall Finishes				
B	12 mm Thick cement and sand (1:3) plaster to:- Wall internally.	552.00	SM		
C	Cement and sand (1:4) screed trowelled smooth to receive ceramic wall tiles/wool carpet (m/s). 30 mm thick screed.	48.00	SM		
D	Imported wall tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in: 600 x 300 x 8 mm Thick Imported wall tiles fixed with an approved adhesive.	552.00	SM		
E	Prepare and apply three coats of first grade silk vinyl emulsion paint to: Ditto but existing walls.	1,968.00	SM		
MH/99	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued FLOORS</u>				
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic floor tiles/wool carpet (m/s).</u>				
A	30 mm thick screed.				
	<u>Non slip Imported Wood like floor tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;</u>	500.00	SM		
B	400 x 400 x 8 mm Thick Non slip Imported Wood like floor tiles fixed with an approved adhesive.	500.00	SM		
		250.00	LM		
C	Ditto 150 x 400 x 8mm skirting ditto				
	<u>CEILING FINISHES</u>				
	<u>Ceiling finishes</u>				
	<u>The following in wrot cypress Cornice;</u>				
	100 x 25mm molded cornice	250.00	LM		
D	25 x 100mm Tongue & Grooved boarding secret nailed to and including 50 x 50mm celcured wrot cypress bearers or brandering at 600mm centers	90.00	SM		
E	<u>In sawn second grade pressure impregnated cypress.</u>				
		1,250.00	LM		
F	50 x 50mm timber brandering	250.00	LM		
G	Ditto but plugged				
	<u>Gypsum ceiling</u>				
H	Gypsum ceiling fixed to timber brandering (m/s) at 600mm both ways including strips and other necessary accessories.	700.00	SM		
MH/100	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued</u> <u>Painting and Decorations</u> <u>Tongue & Grooved timber surfaces</u> <u>Prepare and apply three coats of 'CROWN SOLO' or other equal and approved polyurethane varnish to:-</u>				
A	Surfaces of eaves; over 300mm girth external	90.00	sm		
B	Frames over 100mm but not exceeding 200mm girth	1,500.00	lm		
	<u>Prepare and apply three coats first quality silk vinyl paint on the following surfaces, internally:</u>				
C	Gypsum board ceiling	700.00	sm		
D	Soffits of slabs	500.00	sm		
E	Extra over celotex ceiling for trap door size 600 x 450 mm wide comprising and including 50x50mm timber framing	5.00	NO		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from MH/99 Brought forward from MH/100 Brought down from above				
MH/101	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>JOINERY FITTINGS</u> <u>Wardrobes</u> Carefully pull down the following in 25mm thick blockboards sides, divisions and doors with first quality mahogany veneer facing on both faces; hardwood lipping on all exposed edges; including all necessary ironmongery A Wardrobe size 2000mm long x 600mm deep x 2400mm high overall: 23.00 NO <u>Drawers</u> Carefully pull down the following in 25mm thick blockboards sides with first quality mahogany veneer facing on both faces; 6mm thick plywood bottoms; including all necessary ironmongery B Drawer size 450x550x150mm deep 69.00 NO <u>Ironmongery</u> C Wardrobe door handles 92.00 NO <u>Mirror</u> D 6 mm Float plate silver coated mirror size 2000x450mm high 23.00 NO				
MH/102	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

LAUNDRY AND KITCHEN

ITEM	DESCRIPTION	QTY	UNIT		
	<u>WASHROOMS BUILDERS' WORKS</u> <u>CAREFUL DEMOLITION WORKS</u> <u>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</u> <u>to be executed to the satisfaction of the Project</u> <u>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.</u> <u>Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and carted away from site.</u> <u>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</u> A Carefully demolish the existing wall tiles, and make good surfaces to receive new Granito wall tiles (m/s) , Approximate area of 200 sm load and cart away the arising debris B Carefully hack the existing floor finish and make it good to receive new screed (M/S) an approximate area of 1200 sm, load and cart away the arising debris	200	SM		
		1,200	SM		
LK/105	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>DEMOLITION - (CONTINUED)</u>				
A	Carefully polish/scrub off existing parquet floor finish, repair damaged floor sections and prepare surfaces to receive new vanish (m/s) , Approximate area of 100sm.				
B	Carefully remove the existing broken window panes and make it good to receive new window panes (M/S) an approximate area of 30 sm, load and cart away the arising debris	30	SM		
C	Carefully remove the existing wooden doors and frames, load and store as directed by the client and make good surfaces to receive new wooden doors (m/s) , Approximate No. of 26	26	NO		
D	Carefully remove the existing WCs, load and store as directed by the client and make good surfaces to receive new WCs (m/s) , Approximate No. of 7	7	NO		
E	Carefully remove the existing Sink, load and store as directed by the client and make good surfaces to receive new Sinks (m/s) , Approximate No. of 7	7	NO		
F	Carefully remove the existing Bathtub, load and store as directed by the client and make good surfaces to receive new tiling floor (m/s) , Approximate No. of 7	7	NO		
G	Carefully Scrub down existing wall paints and make it good to receive new painting (M/S) an approximate area of 2800sm, load and cart away the arising debris	2,800	SM		
H	Carefully take down existing ceiling finish including timber cornice, make good disturbed timber brandering and prepare to receive new ceiling (M/S) an approximate area of 1200 sm, load and cart away the arising debris	1,800	SM		
LK/106	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
A	Carefully demolish existing old damaged roof tiles and its accessories and dispose the waste as directed by the project manager (Approximately 1800 SM)	1,800	SM		
B	GUTTER Carefully demolish existing roof gutter, eaves and dispose the waste as directed by the project manager (Approximately 200 LM)	200	SM		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from LK/105 Brought forward from LK/106 Brought down from above				
LK/107	TOTAL FOR DEMOLITIONS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>ROOFING</u>				
	<u>ROOF IMPROVEMENT</u>				
	<u>Sawn cypress treated as described in trusses including templates, fillets, straps, splices and hoisting 3500000mm above ground level and with a moisture content not exceeding 12%</u>				
A	Assorted timber	3,500	LM		
	<u>Wrought Mvule treated as described and with a moisture content not exceeding 12%</u>				
B	Fascia board, size 225x50mm	200	LM		
	<u>ROOF COVERING</u>				
	<u>Decra Roofing sheets</u>				
C	'Stone Coated" tiles forest green/rose garnet or equal and approved size 1350x420mm overall on and fixed 50x50mm treated softwood battens at 370mm centers m/s	1,800	SM		
D	Ridge cap	540	LM		
E	Hip cap	270	LM		
F	Extra for eaves course including tilting fillet	90	LM		
LK/108	Totals Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Decoration and painting</u>				
	<u>Knot, stain prepare and apply three coats oil gloss paint to:</u>				
A	General surfaces of timber	40	SM		
B	Surfaces of timber 200-300mm girth	540	LM		
	<u>Prepare and apply three coats gloss oil paint to:</u>				
C	General surfaces of plastic gutters	90	SM		
D	Surfaces of large pipes	72	SM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from LK/108				
	Brought down from above				
LK/109	TOTALS FOR ROOFING CARRIED TO BUILDER'S WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>DOORS</u>				
	<u>Flush doors</u>				
A	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping with Mvule or other equal and approved hardwood all round;	33	NO		
B	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping with Mvule or other equal and approved hardwood all round ;	33	NO		
	<u>Wrot Mvule to door frames and finishes</u>				
C	150x50mm door frame with three labours plugged to wall	475	LM		
D	25mm quadrant beading	475	LM		
E	40x20mm molded architrave	475	LM		
	<u>Ironmongery as per 'union' catalogue or other equal and approved</u>				
F	100mm pressed steel brass hinges	99	PRS		
G	3 Lever mortice lock complete with aluminum handles able to withstand high humidity level with corrosion	33	NO		
H	2 Lever mortice lock complete with aluminum handles	33	NO		
J	fixed to wall able to withstand high humidity level with corrosion	66	NO		
	<u>Metal fixing cramps</u>				
K	30 x 3mm. Approved door cramps 250mm. Long once bent one end drilled and screwed to wood	66	NO		
LK/110	Total Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Painting</u>				
	<u>Prime back of wood before fixing</u>				
A	Surfaces between 100-200mm girth	475	LM		
B	Ditto between not exceeding 100 mm ditto	950	LM		
C	General surfaces of wood	178	SM		
	<u>Prepare and apply 3 coats gloss oil paint to:</u>				
D	General surfaces of wood	178	SM		
E	Wood surfaces 100-200mm girth	475	LM		
F	Ditto between not exceeding 100 mm ditto	950	LM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from LK/110				
	Brought down from above				
LK/111	TOTAL FOR DOORS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	WINDOWS Aluminum Windows -as per window schedule supply and fix only extruded powder coated aluminum windows mitred at corners including reinforcing cleats; all accessories full width; snap rubber glazing beads and sealing strips; and all necessary ironmongery; all to Architect's approval, all to comply with Architects details & schedule				
A	Window size 4000mm x 3000 high Window	30	NO		
B	size 1200mm x 1500 high	12	SM		
C	Prepare and apply 3 coats of gloss oil to: Railing	170	SM		
LK/112	TOTAL FOR WINDOWS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>FINISHES</u>				
	<u>EXTERNAL FINISHINGS</u>				
	<u>Painting</u>				
A	 Rendered surfaces	2,800	SM		
	<u>Wall Finishes</u>				
	<u>12 mm Thick cement and sand (1:3) plaster to:-</u>				
B	Wall internally.	200	SM		
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic wall tiles/wool carpet (m/s).</u>				
C	30 mm thick screed.	200	SM		
	<u>Imported wall tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;</u>				
D	600 x 300 x 8 mm Thick Imported wall tiles fixed with an approved adhesive.	200	SM		
	<u>Prepare and apply three coats of first grade silk vinyl emulsion paint to:</u>				
E	Ditto but existing walls.	2,800	SM		
LK/113	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued</u>				
	<u>FLOORS</u>				
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic floor tiles/wood carpet (m/s).</u>				
A	30 mm thick screed.	1,200	SM		
	<u>Non slip Imported Wood like floor tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in:</u>				
B	400 x 400 x 8 mm Thick Non slip Imported Wood like floor tiles fixed with an approved adhesive.	1,200	SM		
C	Ditto 150 x 400 x 8mm skirting ditto	600	LM		
	<u>CEILING FINISHES</u>				
	<u>Ceiling finishes</u>				
	<u>The following in wrot Mvule</u>				
D	Cornice; 100 x 25mm molded cornice	600	LM		
E	25 x 100mm Tongue & Grooved boarding secret nailed to and including 50 x 50mm celcured wrot Mvule bearers or brandering at 600mm centers	120	SM		
	<u>In sawn second grade pressure impregnated Mvule.</u>				
F	50 x 50mm timber brandering	4,500	LM		
G	Ditto but plugged	900	LM		
	<u>Gypsum ceiling</u>				
H	Gypsum ceiling fixed to timber brandering (m/s) at 600mm both ways including strips and other necessary accessories.	2,280	SM		
LK/114	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued</u>				
	<u>Painting and Decorations</u>				
	<u>Tongue & Grooved timber surfaces</u>				
	<u>Prepare and apply three coats of 'CROWN SOLO' or other equal and approved polyurethane varnish to: -</u>				
A	Surfaces of eaves; over 300mm girth external	120	sm		
B	Frames over 100mm but not exceeding 200mm girth	5,400	lm		
	<u>Prepare and apply three coats first quality silk vinyl paint on the following surfaces, internally:</u>				
C	Gypsum board ceiling	2,280	sm		
D	Soffits of slabs	1,200	sm		
E	Extra over Celotex ceiling for trap door size 600 x 450 mm wide comprising and including 50x50mm timber framing	10	NO		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from LK/113				
	Brought forward from LK/114				
	Brought down from above				
LK/115	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>JOINERY FITTINGS</u> <u>WARDROBES/ KITCHEN CABINETS</u> Carefully pull down the following in 25mm thick blockboards sides, divisions and doors with first quality Mvule veneer facing on both faces; hardwood lipping on all exposed edges; including all necessary ironmongery Wardrobe size 2000mm long x 600mm deep x 2400mm high overall: A <u>Drawers</u> Carefully pull down the following in 25mm thick blockboards sides with first quality Mvule veneer facing on both faces; 6mm thick plywood bottoms; including all necessary ironmongery B Drawer size 450x550x150mm deep <u>Ironmongery</u> D Wardrobe door handles <u>Mirror</u> E 6 mm Float plate silver coated mirror size 2000x450mm high	7	NO		
		21	NO		
		28	NO		
		7	NO		
LK/116	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>SECTION SUMMARY</u>				
1	Demolitions brought forward from	LK/107			
2	Roof brought forward from	LK/109			
2	Doors brought forward from	LK/111			
3	Windows brought forward from	LK/112			
4	Finishes brought forward from	LK/115			
5	Finishes brought forward from	LK/116			
LK/117	TOTAL BUILDER'S WORKS FOR LAUNDRY AND KITCHEN CARRIED TO COLLECTION				

STAFF QUARTERS AND OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT		
	<u>WASHROOMS BUILDERS' WORKS</u> <u>CAREFUL DEMOLITION WORKS</u> The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Project 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 carted 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				
A	Carefully demolish the existing wall tiles, and make good surfaces to receive new Granito wall tiles (m/s) , Approximate area of 2000 sm, load and cart away the arising debris	2,000.00	SM		
B	Carefully hack the existing floor finish and make it good to receive new screed (M/S) an approximate area of 2900sm, load and cart away the arising debris	2,900.00	SM		
5Q/119	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	DEMOLITION - (CONTINUED)				
A	Carefully polish/scrub off existing parquet floor finish, repair damaged floor sections and prepare surfaces to receive new vanish (m/s) , Approximate area of 100sm.				
B	Carefully remove the existing broken window panes and make it good to receive new window panes (M/S) an approximate area of 200sm, load and cart away the arising debris	200.00	SM		
C	Carefully remove the existing wooden doors and frames, load and store as directed by the client and make good surfaces to receive new wooden doors (m/s) , Approximate No. of 80	80.00	NO		
D	Carefully remove the existing WCs, load and store as directed by the client and make good surfaces to receive new WCs (m/s) , Approximate No. of 34	34.00	NO		
E	Carefully remove the existing Sink, load and store as directed by the client and make good surfaces to receive new Sinks (m/s) , Approximate No. of 244	34.00	NO		
F	Carefully remove the existing Bathtub, load and store as directed by the client and make good surfaces to receive new tiling floor (m/s) , Approximate No. of 34	34.00	NO		
G	Carefully Scrub down existing wall paints and make it good to receive new painting (M/S) an approximate area of 8000sm, load and cart away the arising debris	8,000.00	SM		
H	Carefully take down existing ceiling finish including timber cornice, make good disturbed timber brandering and prepare to receive new ceiling (M/S) an approximate area of 600sm, load and cart away the arising debris	600.00	SM		
SQ/120	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
A	Carefully demolish existing old damaged roof tiles and its accessories and dispose the waste as directed by the project manager (Approximately 1200 SM)	1,200.00	SM		
B	GUTTER Carefully demolish existing roof gutter, eaves and dispose the waste as directed by the project manager (Approximately 310 LM)	310.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from SQ/119 Brought forward from SQ/120 Brought down from above				
SQ/121	TOTAL FOR DEMOLITIONS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>ROOFING</u>				
	<u>ROOF IMPROVEMENT</u>				
	<u>Sawn cypress treated as described in trusses including templates, fillets, straps, splices and hoisting 3330000mm above ground level and with a moisture content not exceeding 12%</u>				
A	Assorted timber	3,330.00	LM		
	<u>Wrought cypress treated as described and with a moisture content not exceeding 12%</u>				
B	Fascia board, size 225x50mm	240.00	LM		
	<u>ROOF COVERING</u>				
C	<u>Decra Roofing sheets</u>				
	'Stone Coated" tiles forest green/rose garnet or equal and approved size 1350x420mm overall on and fixed 50x50mm treated softwood battens at 370mm centers m/s	1,200.00	SM		
D	Ridge cap	360.00	LM		
E	Hip cap	180.00	LM		
F	Extra for eaves course including tilting fillet	60.00	LM		
SQ/122	Totals Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Decoration and painting</u>				
	<u>Knot, stain prepare and apply three coats oil gloss paint to:</u>				
A	General surfaces of timber	48.00	SM		
B	Surfaces of timber 200-300mm girth	360.00	LM		
	<u>Prepare and apply three coats gloss oil paint to:</u>				
C	General surfaces of plastic gutters	60.00	SM		
D	Surfaces of large pipes	48.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from SQ/122				
	Brought down from above				
SQ/123	TOTALS FOR ROOFING CARRIED TO BUILDER'S WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>DOORS</u>				
	<u>Solid Mvule doors</u>				
A	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round;	34.00	NO		
B	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping Mvule or other equal and approved hardwood all round;	34.00	NO		
	<u>Mvule door frames and finishes</u>				
C	250x50mm door frame with three labours plugged to wall	489.60	LM		
D	25mm quadrant beading 40x20mm	489.60	LM		
E	molded architrave	489.60	LM		
	<u>Ironmongery as per 'union' catalogue or other equal and approved</u>				
F	100mm pressed steel brass hinges	102.00	PRS		
G	3 Lever mortice lock complete with aluminum handles able to withstand high humidity level with corrosion	34.00	NO		
H	2 Lever mortice lock complete with aluminum handles	34.00	NO		
J	fixed to wall able to withstand high humidity level with corrosion	68.00	NO		
	<u>Metal fixing cramps</u>				
K	30 x 3mm. Approved door cramps 250mm. Long once bent one end drilled and screwed to wood able to withstand high humidity level with corrosion	68.00	NO		
SQ/124	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Painting</u>				
	<u>Prime back of wood before fixing</u>				
A	Surfaces between 100-200mm girth	489.60	LM		
B	Ditto between not exceeding 100 mm ditto	979.20	LM		
C	General surfaces of wood	183.60	SM		
	<u>Prepare and apply 3 coats gloss oil paint to:</u>				
D	General surfaces of wood	183.60	SM		
E	Wood surfaces 100-200mm girth	489.60	LM		
F	Ditto between not exceeding 100 mm ditto	979.20	LM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from SQ/124				
	Brought down from above				
SQ/125	TOTAL FOR DOORS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>WINDOWS</u> Aluminum Windows -as per window schedule supply and fix only extruded powder coated aluminum windows mitred at corners including reinforcing cleats; all accessories full width; snap rubber glazing beads and sealing strips; and all necessary ironmongery; all to Architect's approval, all to comply with Architects details & schedule				
A	Window size 1800mm x 1500 high Window size	34.00	NO		
B	1200mm x 900 high	34.00	SM		
C	Prepare and apply 3 coats of gloss oil to: Railing	40.00	SM		
SQ/126	TOTAL FOR WINDOWS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>FINISHES</u>				
	<u>EXTERNAL FINISHINGS</u>				
	<u>Painting</u>				
A	Rendered surfaces	8,000.00	SM		
	<u>Wall Finishes</u>				
B	12 mm Thick cement and sand (1:3) plaster to:- Wall internally.	2,000.00	SM		
C	Cement and sand (1:4) screed trowelled smooth to receive ceramic wall tiles/wood carpet (m/s).	48.00	SM		
D	30 mm Thick screed. Imported wall tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in;	2,000.00	SM		
E	600 x 300 x 8 mm Thick Imported wall tiles fixed with an approved adhesive. Prepare and apply three coats of first grade silk vinyl emulsion paint to:	8,000.00	SM		
	Ditto but existing walls.				
SQ/127	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued FLOORS</u>				
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic floor tiles/wool carpet (m/s).</u>				
A	30 mm thick screed.	2,900.00	SM		
	<u>Non slip Imported Wood like floor tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in:</u>				
B	400 x 400 x 8 mm Thick Non slip Imported Wood like floor tiles fixed with an approved adhesive.	2,900.00	SM		
C	Ditto 150 x 400 x 8mm skirting ditto	1,450.00	LM		
	<u>CEILING FINISHES</u>				
	<u>Ceiling finishes</u>				
	<u>The following in wrot cypress</u> Cornice;				
D	100 x 25mm molded cornice	1,450.00	LM		
E	25 x 100mm Tongue & Grooved boarding secret nailed to and including 50 x 50mm celcured wrot cypress bearers or brandering at 600mm centers	144.00	SM		
	<u>In sawn second grade pressure impregnated cypress. 50</u>				
F	x 50mm timber brandering	1,500.00	LM		
G	Ditto but plugged	300.00	LM		
	<u>Gypsum ceiling</u>				
H	Gypsum ceiling fixed to timber brandering (m/s) at 600mm both ways including strips and other necessary accessories.	1,760.00	SM		
5Q/128	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Finishes Continued</u>				
	<u>Painting and Decorations</u>				
	<u>Tongue & Grooved timber surfaces</u>				
	<u>Prepare and apply three coats of 'CROWN SOLO' or other equal and approved polyurethane varnish to:-</u>				
	Surfaces of eaves; over 300mm girth external Frames	144.00	sm		
A	over 100mm but not exceeding 200mm girth	1,800.00	lm		
B	<u>Prepare and apply three coats first quality silk vinyl paint on the following surfaces, internally:</u>				
	Gypsum board ceiling	1,760.00	sm		
C	Soffits of slabs	2,900.00	sm		
D	Extra over celotex ceiling for trap door size 600 x 450 mm wide comprising and including 50x50mm timber framing	5.00	NO		
E					
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from SQ/127				
	Brought forward from SQ/128				
	Brought down from above				
SQ/129	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>JOINERY FITTINGS</u>				
	<u>Wardrobes</u>				
A	Carefully pull down the following in 25mm thick blockboards sides, divisions and doors with first quality mahogany veneer facing on both faces; hardwood lipping on all exposed edges; including all necessary ironmongery				
	Wardrobe size 2000mm long x 600mm deep x 2400mm high overall:	34.00	NO		
	<u>Drawers</u>				
B	Carefully pull down the following in 25mm thick blockboards sides with first quality mahogany veneer facing on both faces; 6mm thick plywood bottoms; including all necessary ironmongery	102.00	NO		
	Drawer size 450x550x150mm deep				
C	<u>Ironmongery</u>	136.00	NO		
	Wardrobe door handles				
	<u>Mirror</u>				
D	6 mm Float plate silver coated mirror size 2000x450mm high	34.00	NO		
SQ/130	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ULTRA MODERN FACILITY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BUILDERS WORKS</u> <u>ULTRA MODERN FACILITY CAREFUL</u> <u>DEMOLITION WORKS</u> The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc. as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Project 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 carted 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 A Carefully demolish the existing wall tiles, and make good surfaces to receive new Granito wall tiles (m/s) , Approximate area of 2460sm, load and cart away the arising debris B Carefully hack the existing floor finish and make it good to receive new screed (M/S) an approximate area of 3000sm, load and cart away the arising debris				
UM/133	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	DEMOLITION - (CONTINUED)				
A	Carefully polish/scrub off existing parquet floor finish, repair damaged floor sections and prepare surfaces to receive new vanish (m/s) , Approximate area of 100sm.				
B	Carefully remove the existing broken window panes and make it good to receive new window panes (M/S) an approximate area of 200sm, load and cart away the arising debris	0	SM		
C	Carefully remove the existing wooden doors and frames, load and store as directed by the client and make good surfaces to receive new wooden doors (m/s) , Approximate No. of 164	156	NO		
D	Carefully remove the existing WCs, load and store as directed by the client and make good surfaces to receive new WCs (m/s) , Approximate No. of 84	0	NO		
E	Carefully remove the existing Sink, load and store as directed by the client and make good surfaces to receive new Sinks (m/s) , Approximate No. of 84	0	NO		
F	Carefully remove the existing Bathtub, load and store as directed by the client and make good surfaces to receive new tiling floor (m/s) , Approximate No. of 84	0	NO		
G	Carefully Scrub down existing wall paints and make it good to receive new painting (M/S) an approximate area of 2000sm, load and cart away the arising debris	2000	SM		
H	Carefully take down existing ceiling finish including timber cornice, make good disturbed timber brandering and prepare to receive new ceiling (M/S) an approximate area of 3000 sm, load and cart away the arising debris	3000	SM		
UM/134	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Carefully demolish existing old damaged roof tiles and its accessories and dispose the waste as directed by the project manager (Approximately 740 SM)	0	SM		
B	GUTTER Carefully demolish existing roof gutter, eaves and dispose the waste as directed by the project manager (Approximately 243 LM)	0	SM		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from UM/133 Brought forward from UM/134 Brought down from above				
UM/135	TOTAL FOR DEMOLITIONS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>DOORS</u>				
	<u>Solid Mvule doors</u>				
	WASHROOMS DOORS WORKS				
A	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping with mahogany or other equal and approved hardwood all round;	156	NO		
	<u>OTHER ROOMS</u>				
B	supply and fix only 900x2400 45mm Thick paneled door comprising 6No hardwood panels with decorative moldings to Architect's details and approval and lipping with mahogany or other equal and approved hardwood all round;	168	NO		
C	Ditto but 1500 x 2400	11	NO		
	<u>Mvule door frames and finishes</u>				
C	250x50mm door frame with three labours plugged to wall	2412	LM		
D E	25mm quadrant beading	2412	LM		
	40x20mm molded architrave	2412	LM		
F	<u>Ironmongery as per 'union' catalogue or other equal and approved</u>				
G	100mm pressed steel brass hinges	710	PRS		
H	3 Lever mortice lock complete with aluminum handles able to withstand high humidity level with corrosion	335	NO		
J	2 Lever mortice lock complete with aluminum handles	0	NO		
	fixed to wall able to withstand high humidity level with corrosion	335	NO		
K	<u>Metal fixing cramps</u>				
	30 x 3mm. Approved door cramps 250mm. Long once bent one end drilled and screwed to wood able to withstand high humidity level with corrosion	335	NO		
UM/136	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting</u>				
	<u>Prime back of wood before fixing</u>				
A	Surfaces between 100-200mm girth	2412	LM		
B	Ditto between not exceeding 100 mm ditto	4824	LM		
C	General surfaces of wood	766.8	SM		
	<u>Prepare and apply 3 coats gloss oil paint to:</u>				
D	General surfaces of wood	766.8	SM		
E	Wood surfaces 100-200mm girth	2412	LM		
F	Ditto between not exceeding 100 mm ditto	4824	LM		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from UM/136				
	Brought down from above				
UM/137	TOTAL FOR DOORS CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FINISHES</u>				
	<u>EXTERNAL FINISHINGS</u>				
	<u>Painting</u>				
A	~~~~ Rendered surfaces	3000	SM		
	<u>Wall Finishes</u>				
	<u>12 mm thick cement and sand (1:3) plaster to:-</u>				
B	Wall internally.	0	SM		
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic wall tiles/wool carpet (m/s).</u>				
C	30 mm thick screed.	0	SM		
	<u>Prepare and apply three coats of first grade silk vinyl emulsion paint to:</u>				
E	Ditto but existing walls.	3000	SM		
UM/138	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Finishes Continued FLOORS</u>				
	<u>Cement and sand (1:4) screed trowelled smooth to receive ceramic floor tiles/wool carpet (m/s).</u>				
A	30 mm thick screed.				
	<u>Non slip Imported Wood like floor tiles or other equal and approved jointed and pointed with matching cement sand (1:4) mortar: colour quality and pattern to the Project Manager's scheme in:</u>	2460	SM		
B C	400 x 400 x 8 mm Thick Non slip Imported Wood like floor tiles fixed with an approved adhesive.				
	Ditto 150 x 400 x 8mm skirting ditto	2460	SM		
	<u>CEILING FINISHES</u>	1500	LM		
	<u>Ceiling finishes</u>				
D	<u>Gypsum ceiling</u>				
E F	Gypsum ceiling fixed to timber branderling (m/s) at 600mm both ways including strips and other necessary accessories.	3000	SM		
	ditto but bulkheads to soffits of solid slabs	6000	SM		
	Gypsum ceiling cornices	7851	LM		
UM/139	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Finishes Continued</u>				
	<u>Painting and Decorations</u>				
	<u>Tongue & Grooved timber surfaces</u>				
	<u>Prepare and apply three coats of 'CROWN SOLO' or other equal and approved polyurethane varnish to:-</u>				
A B	Surfaces of eaves; over 300mm girth external Frames	0	sm		
	over 100mm but not exceeding 200mm girth	0	lm		
C	<u>Prepare and apply three coats first quality silk vinyl paint on the following surfaces, internally:</u>				
	Gypsum board ceiling	9000	sm		
E	Extra over celotex ceiling for trap door size 600 x 450 mm wide comprising and including 50x50mm timber framing	10	NO		
	Total carried to collection				
	<u>COLLECTIONS</u>				
	Brought forward from UM/138				
	Brought forward from UM/139				
	Brought down from above				
UM/140	TOTAL FOR FINISHES CARRIED TO BUILDERS WORK SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SECTION SUMMARY</u>				
1	Demolitions brought forward from	UM/135			
2	Doors brought forward from	UM/137			
3	Finishes brought forward from	UM/140			
UM/141	TOTAL BUILDER'S WORKS FOR ULTRA MODERN FACILITY CARRIED TO COLLECTION SUMMARY				

ASBESTOS DISPOSAL AND SOLAR POWER BACK-UP

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BUILDERS WORKS ASBESTOS DISPOSAL</u> <u>CAREFUL DEMOLITION WORKS</u> The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc. as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Project 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 carted 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				
A	Carefully demolish existing old damaged roof tiles (ASBESTOS) and its accessories as directed by the project manager (Approximately 1600 SM)	1,600.00	SM		
B	<u>GUTTER</u> Carefully demolish existing roof gutter, eaves and dispose the waste as directed by the project manager (Approximately 200 LM)	200.00			
C	<u>SPECIAL DISPOSAL</u> Carefully cut away demolished asbestos old damaged roof tiles and its accessories and dispose the waste as directed by the project manager and according to the NEMA requirements (Approximately 1600 SM)	1,600.00	SM		
AD/143	Total carried to collection				

	<u>COLLECTIONS</u> Brought down from above				
AD/144	TOTAL FOR DEMOLITIONS CARRIED TO BUILDERS WORK SUMMARY				

	<u>ROOFING</u>				
	<u>ROOF STRUCTURE</u>				
	<u>RHS and angle lines as described in trusses including templates, fillets, straps, splices and hoisting 8000mm above ground level and with a moisture content not exceeding 12%</u>				
A	Assorted timber	1,600.00	SM		
	<u>Wrought cypress treated as described and with a moisture content not exceeding 12%</u>				
B	Fascia board, size 225x50mm	200.00	LM		
	<u>ROOF COVERING SOLAR</u>				
	<u>PANELS</u>				
A	400W monocrystalline solar modules	1,600.00	SM		
	Victro Quattro 8000W 48V Inverter/charger pure sine wave as to TPED/SPVD standards Requirement or any approved body manufacturers	3.00	NO		
C	Fronius 15Kw SymoWLAN to TPED/SPVD standards Requirement	1.00	NO		
D	PV disconnects 1000Vdc	1.00	NO		
E	Ritah 200AH Maintainece Free Batteries TPED/SPVD standards Requirement or any approved body from approved manufacturers	10.00	NO		
F	90sqmm Auto cable	10.00	LM		
G	Smart Solar MPPT 150/50 Approved manufacturers	1.00	NO		
H	Colour Control Gx	1.00	NO		
I	AC service box	1.00	NO		
J	Allow for construction of Solar modules PV Mounting Steel Structure 2.5M High	1.00	NO		
	Solar PV autocable 6sqmm	250.00	LM		
K	AC 3-core flex cable 10sqmm	20.00	LM		
L	Armored cable 4 core 10sqmm	20.00	LM		
M	Installation accessories	1.00	ITEM		
N	Transportation to site for materials	1.00	ITEM		
O	Installation, testing and commissioning	1.00	ITEM		
AD/145	Totals Carried Forward				

A	<u>Decoration and painting</u>				
	Knot, stain prepare and apply three coats oil gloss paint to: General surfaces of timber	40.00	SM		
	Total carried to collection				
	<u>COLLECTIONS</u> Brought forward from A/145 Brought down from above				
AD/146	TOTALS FOR ROOFING CARRIED TO BUILDER'S WORK SUMMARY				

[illegible]

BUILDER'S WORKS SUMMARY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BUILDER'S WORKS COLLECTION SUMMARY</u>				
1	Bahari Hostel				
2	Sabaki Hostel				
3	Galana Hostel				
4	Mzima Hostel				
5	Marere Hostel				
6	LAUNDRY AND KITCHEN				
6	STAFF HOUSE TYPOLOGY 1,2,3,4				
7	ULTRA MODERN FACILITY				
8	ASBESTOS DISPOSAL AND SOLAR POWER BACKUP				
BW/149	Total carried to Grand Summary				

BILL NO. 4

ELECTRICAL WORKS

BAHARI HOSTELS ELECTRICAL WORKS

SCHEDULE NO. 1 -OTHER SPACES

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTING POINTS</u>				
1.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two switching	245	No.		
	<u>SWITCHES</u>				
1.02	10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	5	No.		
	b) one gang two way	3	No.		
	c)two gang one way	0	No.		
	d)two gang two way	2	No.		
	e) three gang two way	2	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9. CRI 80 LED diffused, heat-resistant Luminaire as TRONIC LED Batten or approved equivalent	41	No.		
	b) Ditto as above but twin	5	No.		
	c) LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	2	No.		
	d) 150mm diameter LED Downlight luminaire with 900 lumens,4000K, 10W, pf ≥0.9, at least 50,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	60	No.		
	e) Decorative ceramic LED internal up and Down wall light luminaire with 1000 lumens,4000K, 10W, pf ≥0.9, at least 50,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens,4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light/Gate light luminaire with 3000 lumens,4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens,4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
BHE/152	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 1-OTHERS SPACES CONT.D

Item	Description	Qty	Unit	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following :-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) PHOTOCELL/ PIR SENSOR controlled LED Bulkhead with IP65, 50 W, pf ≥0.9, 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with all necessary accessories as TRONIC or approved equivalent.	22	No.		
	j) PHOTOCELL/ PIR SENSOR controlled LED Floodlight with IP65, 50 W, pf ≥0.9, 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with the PHOTOCELL/PIR SENSOR and all necessary accessories as TRONIC or approved equivalent.	5	No.		
	k) 600 x 600 recessed LED Panel to client's approval	0	No.		
	l) Decorative Crystal silver Track Lights to clients approval	20	No.		
	m) Decorative hanging pendant and chandeliers to client's approval	6	No.		
	n) Mirror Light to client's approval	2	No.		
	o) Emergency exit light to approval	36	No.		
	p) Emergency light fitting with 3 hours operation	40	No.		
	q) LED strip complete with diffuser to client's approval	40	LM		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVCI copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	50	No.		
1.05	13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single.	1	No.		
	b) twin.	20	No.		
	c) twin, Splash proof with neon Indicator	25	No.		
	d) twin, with 2 USB ports with neon Indicator	4	No.		
1.06	Isolator equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	5	No.		
1.07	20 Amps Single phase isolator with industrial socket as SCHNEIDER or approved equivalent for items above	5	No.		
1.08	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	2	No.		
1.09	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	2	No.		
BHE/153	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 1-OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
1.10	Cooker point comprising of 3x6mm ² P.V.C.I Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	1	No		
1.11	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	1	No		
1.12	Cooker connection unit for item above.	1	No.		
1.13	16A Socket outlet points wired radial from DB comprising of 3x4 mm sq. single core P.V.C.I copper cables drawn in concealed 25mm HG PVC conduits for the bakery Kitchen equipment	2	No.		
1.14	16A 3 Pin Watertight, IP 44 Industrial socket outlets	2	No.		
1.15	IP65 rated, 20A SPN Isolator switch for item above as KATKO or approved equivalent	2	No.		
1.16	16A Socket outlet points wired radial from DB comprising of 5x6.0 mm sq. single core P.V.C.I copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.17	16A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.18	IP65 rated, 20A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
1.19	5x 10 mm sq single core cables for kitchen equipment	20	LM		
1.20	32A Socket outlet points wired radial from DB comprising of 5x10.0 mm sq. single core P.V.C.I copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.21	32A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.22	IP65 rated, 32A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
	TRUNKING AND CABLE TRAY				
1.23	200x50mm two compartment Powder coated, anti-rusting Trunking as per details shown complete with covers, bends, face plates for both power sockets and data plates and all fixing accessories. The Trunking to angular section fixed at skirting level. Allow for colour change to client's detail.	30	LM		
1.24	300mm x 50mm steel Cable tray complete with covers, bends, joints, mounting brackets and all other necessary accessories and parts. To be installed in Electrical Ducts	50	LM		
BHE/154	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 1 – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE ALARM SYSTEM				
	(to be compliant with relevant parts of EN 54 standard)				
1.25	Fire alarm points wired in 3x2.5mm ² Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	100	No		
1.26	Intelligent addressable LED flushing sounder beacon complete with all necessary accessories as EATON or approved equivalent.	25	No		
1.27	Intelligent addressable Smoke detectors/Heat detector complete with all necessary accessories as EATON or approved equivalent.	140	No		
1.28	Intelligent addressable Fire break glass Manual call point unit as EATON or approved equivalent complete with all necessary accessories	25	No		
1.29	2 loop, Intelligent addressable Fire alarm control panel complete with Battery and charger as EATON or approved equivalent	1	No		
	PROVISIONS				
1.30	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	20	No.		
1.31	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	10	No.		
1.32	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	10	No.		
1.33	TV points comprising Draw wire in concealed PVC conduits	2	No.		
1.34	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
1.35	65-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	2	No		
1.36	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	50	No.		
1.37	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	40	No.		
1.38	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	24	No.		
1.39	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	10	No.		
BHE/155	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 1 – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CONSUMER UNITS/DISTRIBUTION BOARDS				
1.40	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	2	No.		
1.41	12 ways TPN, SURFACE mounted Distribution Board complete with 125A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	10	No.		
1.42	MCB's for item above				
	(a) 10A, SP	40	No.		
	(b) 20A, SP	80	No.		
	(c) 30A, SP	40	No.		
	(d) 30A TP	20	No.		
	(e) Blanking plates	40	No.		
1.43	Airtight FLOORBOX/PEDESTAL complete with wiring/cabling and fittings for 4No twin sockets, 4No data & telephone dual plate and 1 No HDMI 1, No VGA connectors complete with all accessories.	4	No.		
	POWER DISTRIBUTION CABLES				
1.44	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Distribution Board to Consumer Unit (AVERAGE 25 m LONG)	50	LM		
1.45	5x 25mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Cable loop in Box to Distribution Boards (AVERAGE 15 m LONG)	85	LM		
1.46	4x 95mm ² PVC/SWA/PVC armored Copper cables in cable trench and concealed HG PVC conduits from meter board to Cable loop in Box	100	LM		
1.47	4 pole 200 A TPN adjustable MCCB complete with all accessories for the above cable	2	No.		
1.48	100mm diameter PVC duct with concrete surround and HATARI markers complete with all accessories.	100	LM		
1.49	600x600x600mm Manholes.	6	No.		
	EARTHING				
1.50	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	3	No.		
	b) 12.5 mm dia. Driving stud as FURSE cat. No. ST100.	3	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	3	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	3	No.		
	e) 6mm sq. SC PVCI Copper cables.	10	LM		
BHE/156	SUB TOTAL C/F TO SUMMARY PAGE				

SCHEDULE NO.2 - ROOMS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTING POINTS</u>				
2.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two-way switching	11	No.		
	<u>SWITCHES</u>				
2.02	decorative zinc/silver/gold coated 10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	1	No.		
	b) one gang two way	2	No.		
	c) two gang one way	1	No.		
	d) two gang two way	1	No.		
	e) three gang two way	0	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	g) Dimmer	1	No.		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9, CRI 80 LED diffused, heat resistant Luminaire as TRONIC LED Batten or approved equivalent	0	No.		
	b) Ditto as above but twin	0	No.		
	c) DECORATIVE DIMMABLE LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	1	No.		
	d) 150mm diameter DECORATIVE LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	1	No.		
	e) Decorative ceramic LED internal up and down flexible/adjustable wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	1	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
BHE/157	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 2-ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) Circular Bedside LED Reading Light 10 W, pf ≥0.9, 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	j) Decorative rechargeable, portable LED desk lamp/reading lamp 10 W, pf ≥0.9, 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	k) Emergency exit light to approval	0	No.		
	l) Emergency light fitting with 3 hours operation	1	No.		
	m) LED strip complete with diffuser to client's approval	3	LM		
	n) DECORATIVE Mirror Light to client's approval	1	No.		
	n) DECORATIVE SHAVER UNIT to client's approval	1	No.		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
2.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	8	No.		
2.05	decorative zinc/silver/gold coated 13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single universal socket with 1 USB ports with neon Indicator	1	No.		
	b) twin.	1	No.		
	c) twin, Splash proof with neon Indicator	0	No.		
	d) twin, universal with 2 USB ports with neon Indicator	1	No.		
2.06	Shaver unit/Hair drier power point comprising wiring in 3x2.5mm² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.07	Shaver unit with Dual Voltage 240/110V to clients approval.	1	No.		
2.08	Hair drier unit to client's approval	1	No.		
2.09	Instant shower/extract fan/under sink heater/Air Condition/ radial equipment power point comprising wiring in 3x4mm² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.10	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	1	No.		
2.11	Ground level booster pump point comprising wiring in 3x4mm² PVC-SC-CU cables in concealed PVC conduits	0	No.		
2.12	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	0	No.		
BHE/158	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 2- CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.13	Cooker point comprising of 3x6mm ² PVC Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	0	No		
2.14	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	0	No		
2.15	Cooker connection unit for item above.	0	No.		
2.16	DND-Do not Disturb Signage and Switch and Hotel Key Card switch point comprising of 3x1.5mm ² PVC Copper cables together with appropriate signal cables drawn in concealed 20mm dia. HG PVC conduits from CU	1	No		
2.17	240V DND-Do not Disturb Signage and Switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.18	Hotel Key Card switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.19	Decorative RFID card door access system with Smart Lock Hotel Lock with advanced card technology, IP 54 or higher, ability of reading and writing to the guest and staff cards, with simple user-friendly professional lock management software, ability to access Audit trail records of at least 200 lock transactions, complete with all accessories, power supply and battery, the system should come with warning beeps in low battery power and as per the approval. The system should come with card programming kits to be stationed at the reception	1	No		
2.20	32-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	1	No		
	PROVISIONS				
2.21	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	1	No.		
2.22	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	1	No.		
2.23	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	1	No.		
2.24	TV points comprising Draw wire in concealed PVC conduits	1	No.		
2.25	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	1	No.		
2.26	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	0	No.		
2.27	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
BHE/159	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 2- CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.28	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
2.29	Smart automatic Motorized curtain opener system for rails and rods complete with all components including remote control units.	0	No.		
2.30	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	1	No.		
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
2.31	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator, with CARD CONTROLLED SYSTEM as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
2.32	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	1	No.		
	(d) 45A SP	0	No.		
	(e) Blanking plates	2	No.		
	<u>SUB-MAIN POWER DISTRIBUTION</u>				
2.33	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from meter board to Consumer Unit	10	LM		
2.34	100mm diameter PVC duct with concrete surround complete with all accessories.	0	LM		
2.35	750x750x750mm Manholes.	0	No.		
	<u>EARTHING</u>				
2.36	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	0	No.		
	b) 12.5 mm dia. Driving stud as FURSE cat. No. ST100.	0	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	0	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	0	No.		
	e) 6mm sq. SC PVC Copper cables.	0	LM		
	SUB TOTAL FOR 1 No. ROOM			79	
	MULTIPLY BY NO. OF ROOMS				
BHE/160	SUB TOTAL FOR 79 ROOMS C/F TO SUMMARY PAGE				

SCHEDULE NO. 3 LIGHTNING PROTECTION SYSTEM

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof , all as FURSE	100	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	6	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	50	LM		
3.04	Copper square tape clamp for making crossing tape joints	20	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with saddles	12	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	4	No.		
	b) 15 mm dia. Driving stud as FURSE cat. No. ST100.	4	No.		
	c) Rod to tape clamp as FURSE.	4	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (or a well-made 320mm x 320mm x 210 mm depth pit.)	4	No.		
	e) 25x3mm copper tape	20	LM		
BHE/161	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

SCHEDULE 4-DATA AND VOICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	Horizontal cabling:				
4.01	Four pair CAT 6A cable as Siemons or approved equivalent drawn in the existing Trunking with both ends terminated at the patch panel and at RJ45 face plates at the network edge.	4250	LM		
4.02	Single CAT 6A RJ45 face plates as Siemons or approved equivalent complete with Modules.	60	No.		
4.03	CAT 6A 48-Port RJ45 Patch Panels as Siemons or approved equivalent	4	No.		
4.04	1U WM series rack mount cable managers	8	No.		
4.05	CAT 6A 1m, 4-pair RJ45-RJ45 patch cords	120	No.		
4.06	CAT 6A 3m, 4-pair RJ45-RJ45 patch cords	120	No.		
4.07	10G SFP multimode transceiver modules plus termination kit	4	No.		
4.08	8-core fiber optic cable (50/125) indoor	20	LM		
4.09	Complete Fiber Enclosure Panel	1	No.		
4.1	Labeling of ports (both ends)	60	No.		
4.11	Network CAT 6A Cable Testing to industry standard and documentation of test results in 3No. Bounded Hard and 2No. Soft Copies in appropriate media.	60	No.		
	Data/ Voice EDGE Switch				
4.12	48 10/100/1000 PoE+ ports with 370W/ power budget, 4 X 10 Gigabit SFP+, Stackable Rack-mountable as ARUBA/CISCO/RUCKUS c/w all necessary parts or approved equivalent.	4	No.		
	Data/ Voice CORE Switch				
4.13	12 x 10 Gigabit SFP+, 2 x 10 Gigabit copper ports (combo with 2 x SFP+), 1 x GE management port, Rack- mountable as ARUBA/CISCO/RUCKUS or approved equivalent c/w all necessary accessories.	1	No.		
	Wireless Access Point (WAP)				
4.14	Wireless Access Point c/w Controller, Indoor, Internal Antenna as ARUBA/CISCO/RUCKUS Access Point, internal antenna; ceiling mount, Wi-Fi 6; 2x2:2 MIMO or approved equivalent or better.	10	No.		
	IP Telephones				
4.15	Standard Phone: IP Phone, POE, 2x10/100/1000 Ethernet Ports, 2.7" 192x64-pixel graphical LCD, 6-line Keys, 15 (3 pages of 5 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 12 SIP Accounts, 5-way Conferencing, 2 Adjustable Angles, c/w UC License, c/w all necessary accessories as Yealink SIP- T42U or approved equivalent compatible with the IP-PBX.	60	No.		
	Telephone Operator Phone				
4.16	IP Phone, POE, 2x10/100/1000 Ethernet Ports, 4.3" 480 x 272-pixel color display, 10-line Keys, 27 (3 pages of 9 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 16 SIP Accounts, 10-way Conferencing, complete with UC License, c/w all necessary accessories as Yealink SIP- T46U or approved equivalent compatible with the IP-PBX.	1	No.		
	Network cabinet				
4.17	9U Rack wall mounted, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	4	No.		
4.18	42U Rack Floor Standing, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	1	No.		
BHE/162	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 4 DATA AND VOICE – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	IP-PBX				
4.19	IP-PBX of the following minimum capacity: supportive parts and accessories.: Base Users / Max Users 75/100 • Max Concurrent Calls: 30 • Max FXS Ports: 16 • Max FXO/BRI Ports: 16 • Max GSM/3G/4G Ports: 6 • Max E1/T1/J1 Ports: 2 • Ethernet Interfaces: 2 x (10/100/1000 Mbps) • Hard Disk: 1 SATA (Up to 2TB) • USB 1: (Up to 2TB) as Yeastar or approved equivalent or better c/w UC Licenses, all associated cards and accessories and accessories.	1	No.		
	Expansion Module				
4.2	Expansion Module for the Telephone Operator console as Yealink EXP43Expansion Module or approved equivalent.	1	No.		
	Headphone				
4.21	Wired Headphone compatible with the Telephone Operator console as Yealink YHS36 Mono QD RJ9 Wired Headset or approved equivalent.	2	No.		
	UPS				
4.22	Single Phase 240V, 10KVA UPS as APC Smart with multi o/p ports, USB and serial port c/w manual bypass and 15 mins run time.	1	No.		
	CCTV CAMERAS				
4.23	Network Dome Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 40m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2746G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	16	No.		
4.24	Network Bullet Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 60m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2646G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	32	No.		
4.25	4MP PTZ camera as Hikvision or approved equivalent	2	No.		
BHE/163	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 4- DATA AND VOICE CONT.D

Item	Description	Qty	Unit		
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CCTV Monitoring Screen to approval				
4.26	• Screen Size: 55-inch LED • Pixel Pitch 0.63 mm • Physical Seam 3.5 mm • Resolution 1920 × 1080@60 Hz • Brightness 700 cd/m² • Viewing Angle H&V 178° • Color Depth 8-bit, 16.7 M • Response Time 8 ms	2	No.		
4.27	Surveillance 10TB HDD as Seagate Hawk or approved equivalent	3	No		
	Network Keyboard (Joystick)				
4.28	• Decoding Format H.265 • Decoding Capability4@1080p (FHD) • Decoding FormatH.264, H.265, MPEG4 • Decoding Capability4@1080p • Touch Screen type • Divide video wall into regions to manage video wall by region • Preview camera live image on network keyboard touchscreen	1	No.		
	ISDN & GSM CONNECTIVITY				
4.29	Allow for ISDN and GSM Connectivity Charges from ISP to be identified by the Client	1	Item		
	System Administration PC				
4.30	Desktop PC: HP 280 7th Gen, Intel Core i5, 1TB HDD, 8GB RAM, 20 Inch Screen, LED Backlit Monitor, DVD Super Multi, HDMI port, RJ45 port, VGA port as HP or approved equivalent c/w windows 10 OS or latest.	1	No.		
4.31	Train at least 10No. KSG and SDPW-RWO Technical Officers on administration, operation and maintenance of all the installed systems.	1	Item		
4.32	Test and Commission the DATA, VOICE AND CCTV System to the satisfaction of the Project Engineer and Project Implementation Team.	1	Item		
4.33	Supply to the Project Engineer with Network Documentation entailing As- installed Drawings/Schematics, Cable Test Results, Installation, Operation & Maintenance Manuals for Active Devices in Bound Booklet 3No. copies and in a Flash Disk 2No. Copies.	1	Item		
BHE/164	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE 4. DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE EMERGENCY EVACUATION SYSTEM				
	(To be compliant with relevant parts of EN 54 standard)				
4.34	Speakers cable Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	100	LM		
4.35	Ceiling mounted Fire evacuation speaker, IP 65 outdoor, with the following minimum specifications and to approval: Diameter:213mm Thickness: 65mm Ceiling hole:170 mm Power:6-10W Voltage: 70/110V Frequency response : 100-16kHz Sensitivity : 90dB Loudest pressure level (1m)95dB Speaker:6.5inch	20	No		
4.36	DITTO but wall mounted	16	No		
4.37	350 W, 24VDC network Voice Evacuation Control Panel compatible with Fire alarm control panel to Engineers specifications and approval	1	No		
	Centralized Television system				
4.38	DSTV set with DISH, DECODER CABLING brackets Extra View plus 12 Months PREMIUM SUBSCRIPTION	1	No		
4.39	5x16 Mult switch for cable distribution	4	No.		
4.40	Satellite amplifier	2	No.		
4.41	TV points comprising Draw wire in concealed PVC conduits	2	No.		
4.42	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
4.43	Coaxial cable for TV works	100	LM		
	Network video recorder				
4.44	• IP video input: 64-ch • In/out BW: 576 /512 Mbps • 2xHDMI o/p: 4K@30Hz, • Decode format H.265, H.265+ • Max. Video resolution 32 MP, • Capability 1-ch@32 MP@30 fps) • Synchronous playback: 16-ch • 16 SATA of Up to 10 TB HDD • RAID 0, 1, 5, 6, 10 • Alarm input/output 16/8 • c/w One extension board: 4x10M/100M/1000M (1.25 Gbps SFP module) As Hikvision DS-96128NI-I16, c/w One Extension Board, 100TB Storage Capacity and all necessary accessories and as further specified or approved	1	no		
BHE/165	SUB TOTAL C/F TO SUMMARY PAGE				

<u>MAIN SUMMARY</u>		
ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Subtotal B/F from schedule 1: - OTHER SPACES	
B	Subtotal B/F from schedule 2: - ROOMS	
C	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
D	Subtotal B/F from schedule 4: - DATA AND VOICE	
E	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase or hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	100,000.00
F	Allow for four sets of 'As Installed Drawings'	
BHE/166	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

SABAKI HOSTELS ELECTRICAL WORKS

SCHEDULE NO.1- OTHER SPACES

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTING POINTS</u>				
1.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two switching	245	No.		
	<u>SWITCHES</u>				
1.02	10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	5	No.		
	b) one gang two way	3	No.		
	c)two gang one way	0	No.		
	d)two gang two way	2	No.		
	e) three gang two way	2	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9. CRI 80 LED diffused, heat-resistant Luminaire as TRONIC LED Batten or approved equivalent	41	No.		
	b) Ditto as above but twin	5	No.		
	c) LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	2	No.		
	d) 150mm diameter LED Downlight luminaire with 900 lumens,4000K, 10W, pf ≥0.9, at least 50,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	60	No.		
	e) Decorative ceramic LED internal up and Down wall light luminaire with 1000 lumens,4000K, 10W, pf ≥0.9, at least 50,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens,4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light/Gate light luminaire with 3000 lumens,4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens,4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
SHE/168	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.1 OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) PHOTOCELL/ PIR SENSOR controlled LED Bulkhead with IP65, 50 W, pf ≥0.9, 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with all necessary accessories as TRONIC or approved equivalent.	22	No.		
	j) PHOTOCELL/ PIR SENSOR controlled LED Floodlight with IP65, 50 W, pf ≥0.9, 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with the PHOTOCELL/PIR SENSOR and all necessary accessories as TRONIC or approved equivalent.	5	No.		
	k) 600 x 600 recessed LED Panel to client's approval	0	No.		
	l) Decorative Crystal silver Track Lights to clients approval	20	No.		
	m) Decorative hanging pendant and chandeliers to client's approval	6	No.		
	n) Mirror Light to client's approval	2	No.		
	o) Emergency exit light to approval	36	No.		
	p) Emergency light fitting with 3 hours operation	40	No.		
	q) LED strip complete with diffuser to client's approval	40	LM		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	50	No.		
1.05	13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single.	1	No.		
	b) twin.	20	No.		
	c) twin, Splash proof with neon Indicator	25	No.		
	d) twin, with 2 USB ports with neon Indicator	4	No.		
1.06	Isolator equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	5	No.		
1.07	20 Amps Single phase isolator with industrial socket as SCHNEIDER or approved equivalent for items above	5	No.		
1.08	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	2	No.		
1.09	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	2	No.		
SHE/169	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.1 OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
1.10	Cooker point comprising of 3x6mm ² P.V.C.I Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	1	No		
1.11	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	1	No		
1.12	Cooker connection unit for item above.	1	No.		
1.13	16A Socket outlet points wired radial from DB comprising of 3x4 mm sq. single core P.V.C.I copper cables drawn in concealed 25mm HG PVC conduits for the bakery Kitchen equipment	2	No.		
1.14	16A 3 Pin Watertight, IP 44 Industrial socket outlets	2	No.		
1.15	IP65 rated, 20A SPN Isolator switch for item above as KATKO or approved equivalent	2	No.		
1.16	16A Socket outlet points wired radial from DB comprising of 5x6.0 mm sq. single core P.V.C.I copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.17	16A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.18	IP65 rated, 20A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
1.19	5x 10 mm sq single core cables for kitchen equipment	20	LM		
1.20	32A Socket outlet points wired radial from DB comprising of 5x10.0 mm sq. single core P.V.C.I copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.21	32A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.22	IP65 rated, 32A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
	<u>TRUNKING AND CABLE TRAY</u>				
1.23	200x50mm two compartment Powder coated, anti-rusting Trunking as per details shown complete with covers, bends, face plates for both power sockets and data plates and all fixing accessories. The Trunking to angular section fixed at skirting level. Allow for colour change to client's detail.	30	LM		
1.24	300mm x 50mm steel Cable tray complete with covers, bends, joints, mounting brackets and all other necessary accessories and parts. To be installed in Electrical Ducts	50	LM		
SHE/170	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.1 OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE ALARM SYSTEM				
	(to be compliant with relevant parts of EN 54 standard)				
1.25	Fire alarm points wired in 3x2.5mm ² Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	100	No		
1.26	Intelligent addressable LED flushing sounder beacon complete with all necessary accessories as EATON or approved equivalent.	25	No		
1.27	Intelligent addressable Smoke detectors/Heat detector complete with all necessary accessories as EATON or approved equivalent.	50	No		
1.28	Intelligent addressable Fire break glass Manual call point unit as EATON or approved equivalent complete with all necessary accessories	25	No		
1.29	2 loop, Intelligent addressable Fire alarm control panel complete with Battery and charger as EATON or approved equivalent	1	No		
	PROVISIONS				
1.30	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	20	No.		
1.31	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	10	No.		
1.32	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	10	No.		
1.33	TV points comprising Draw wire in concealed PVC conduits	2	No.		
1.34	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
1.35	65-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	2	No		
1.36	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	50	No.		
1.37	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	40	No.		
1.38	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	24	No.		
1.39	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	10	No.		
SHE/171	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.1 OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
1.40	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	2	No.		
1.41	12 ways TPN, SURFACE mounted Distribution Board complete with 125A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	10	No.		
1.42	MCB's for item above				
	(a) 10A, SP	40	No.		
	(b) 20A, SP	80	No.		
	(c) 30A, SP	40	No.		
	(d) 30A TP	20	No.		
	(e) Blanking plates	40	No.		
1.43	Airtight FLOORBOX/PEDESTAL complete with wiring/cabling and fittings for 4No twin sockets, 4No data & telephone dual plate and 1 No HDMI 1, No VGA connectors complete with all accessories.	4	No.		
	<u>POWER DISTRIBUTION CABLES</u>				
1.44	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Distribution Board to Consumer Unit (AVERAGE 25 m LONG)	45	LM		
1.45	5x 25mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Cable loop in Box to Distribution Boards (AVERAGE 15 m LONG)	30	LM		
1.46	4x 95mm ² PVC/SWA/PVC armored Copper cables in cable trench and concealed HG PVC conduits from meter board to Cable loop in Box	20	LM		
1.47	4 pole 200 A TPN adjustable MCCB complete with all accessories for the above cable	2	No.		
1.48	100mm diameter PVC duct with concrete surround and HATARI markers complete with all accessories.	20	LM		
1.49	600x600x600mm Manholes.	6	No.		
	<u>EARTHING</u>				
1.50	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	3	No.		
	b) 12.5 mm dia. Driving stud as FURSE cat. No. ST100.	3	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	3	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	3	No.		
	e) 6mm sq. SC PVCI Copper cables.	10	LM		
SHE/172	SUB TOTAL C/F TO SUMMARY PAGE				

SCHEDULE NO.2 ROOMS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTING POINTS</u>				
2.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two-way switching	11	No.		
	<u>SWITCHES</u>				
2.02	decorative zinc/silver/gold coated 10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	1	No.		
	b) one gang two way	2	No.		
	c)two gang one way	1	No.		
	d)two gang two way	1	No.		
	e) three gang two way	0	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	g) Dimmer	1	No.		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours ≥ 0.9 . CRI 80 LED diffused, heat resistant Luminaire as TRONIC LED Batten or approved equivalent	0	No.		
	b) Ditto as above but twin	0	No.		
	c) DECORATIVE DIMMABLE LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	1	No.		
	d) 150mm diameter DECORATIVE LED Downlight luminaire with 900 lumens,4000K, 10W, pf ≥ 0.9 , at least 20,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	1	No.		
	e) Decorative ceramic LED internal up and down flexible/adjustable wall light luminaire with 1000 lumens,4000K, 10W, pf ≥ 0.9 , at least 20,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	1	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens,4000K, 13W, pf ≥ 0.9 , at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light luminaire with 3000 lumens,4000K, 30W, pf ≥ 0.9 , at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens,4000K, 13W, pf ≥ 0.9 , at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
SHE/173	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) Circular Bedside LED Reading Light 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	j) Decorative rechargeable, portable LED desk lamp/reading lamp 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	k) Emergency exit light to approval	0	No.		
	l) Emergency light fitting with 3 hours operation	1	No.		
	m) LED strip complete with diffuser to client's approval	3	LM		
	n) DECORATIVE Mirror Light to client's approval	1	No.		
	n) DECORATIVE SHAVER UNIT to client's approval	1	No.		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
2.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	8	No.		
2.05	decorative zinc/silver/gold coated 13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single universal socket with 1 USB ports with neon Indicator	1	No.		
	b) twin.	1	No.		
	c) twin, Splash proof with neon Indicator	0	No.		
	d) twin, universal with 2 USB ports with neon Indicator	1	No.		
2.06	Shaver unit/Hair drier power point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.07	Shaver unit with Dual Voltage 240/110V to clients approval.	1	No.		
2.08	Hair drier unit to client's approval	1	No.		
2.09	Instant shower/extract fan/under sink heater/Air Condition/ radial equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.10	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	1	No.		
2.11	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	0	No.		
2.12	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	0	No.		
SHE/174	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.13	Cooker point comprising of 3x6mm ² PVIC Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	0	No		
2.14	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	0	No		
2.15	Cooker connection unit for item above.	0	No.		
2.16	DND-Do not Disturb Signage and Switch and Hotel Key Card switch point comprising of 3x1.5mm ² PVIC Copper cables together with appropriate signal cables drawn in concealed 20mm dia. HG PVC conduits from CU	1	No		
2.17	240V DND-Do not Disturb Signage and Switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.18	Hotel Key Card switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.19	Decorative RFID card door access system with Smart Lock Hotel Lock with advanced card technology, IP 54 or higher, ability of reading and writing to the guest and staff cards, with simple user-friendly professional lock management software, ability to access Audit trail records of at least 200 lock transactions, complete with all accessories, power supply and battery, the system should come with warning beeps in low battery power and as per the approval. The system should come with card programming kits to be stationed at the reception	1	No		
2.20	32-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	1	No		
	PROVISIONS				
2.21	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	1	No.		
2.22	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	1	No.		
2.23	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	1	No.		
2.24	TV points comprising Draw wire in concealed PVC conduits	1	No.		
2.25	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	1	No.		
2.26	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	0	No.		
2.27	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
SHE/175	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.28	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
2.29	Smart automatic Motorized curtain opener system for rails and rods complete with all components including remote control units.	0	No.		
2.30	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	1	No.		
	CONSUMER UNITS/DISTRIBUTION BOARDS				
2.31	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator, with CARD CONTROLLED SYSTEM as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
2.32	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	1	No.		
	(d) 45A SP	0	No.		
	(e) Blanking plates	2	No.		
	SUB-MAIN POWER DISTRIBUTION				
2.33	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from meter board to Consumer Unit	10	LM		
2.34	100mm diameter PVC duct with concrete surround complete with all accessories.	0	LM		
2.35	750x750x750mm Manholes.	0	No.		
	EARTHING				
2.36	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	0	No.		
	b) 12.5 mm dia. Driving stud as FURSE cat. No. ST100.	0	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	0	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	0	No.		
	e) 6mm sq. SC PVCI Copper cables.	0	LM		
	SUB TOTAL FOR 1 No. ROOM				
	MULTIPLY BY NO. OF ROOMS			27	
SHE/176	SUB TOTAL FOR 27 ROOMS C/F TO SUMMARY PAGE				

SCHEDULE NO.3 LIGHTNING PROTECTION SYSTEM

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	100	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	6	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	50	LM		
3.04	Copper square tape clamp for making crossing tape joints	20	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with saddles	12	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	4	No.		
	b) 15 mm dia. Driving stud as FURSE Cat. No. ST100.	4	No.		
	c) Rod to tape clamp as FURSE.	4	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (Or a well-made 320mm x 320mm x 210 mm depth pit.)	4	No.		
	e) 25x3mm copper tape	20	LM		
SHE/177	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

SCHEDULE NO. 4 DATA AND VOICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	Horizontal cabling:				
4.01	Four pair CAT 6A cable as Siemons or approved equivalent drawn in the existing Trunking with both ends terminated at the patch panel and at RJ45 face plates at the network edge.	4250	LM		
4.02	Single CAT 6A RJ45 face plates as Siemons or approved equivalent complete with Modules.	60	No.		
4.03	CAT 6A 48-Port RJ45 Patch Panels as Siemons or approved equivalent	4	No.		
4.04	1U WM series rack mount cable managers	8	No.		
4.05	CAT 6A 1m, 4-pair RJ45-RJ45 patch cords	120	No.		
4.06	CAT 6A 3m, 4-pair RJ45-RJ45 patch cords	120	No.		
4.07	10G SFP multimode transceiver modules plus termination kit	4	No.		
4.08	8-core fiber optic cable (50/125) indoor	20	LM		
4.09	Complete Fiber Enclosure Panel	1	No.		
4.1	Labeling of ports (both ends)	60	No.		
4.11	Network CAT 6A Cable Testing to industry standard and documentation of test results in 3No. Bounded Hard and 2No. Soft Copies in appropriate media.	60	No.		
	Data/ Voice EDGE Switch				
4.12	48 10/100/1000 PoE+ ports with 370W power budget, 4 X 10 Gigabit SFP+, Stackable Rack-mountable as ARUBA/CISCO/RUCKUS c/w all necessary parts or approved equivalent.	4	No.		
	Data/ Voice CORE Switch				
4.13	12 x 10 Gigabit SFP+, 2 x 10 Gigabit copper ports (combo with 2 x SFP+), 1 x GE management port, Rack-mountable as ARUBA/CISCO/RUCKUS or approved equivalent c/w all necessary accessories.	1	No.		
	Wireless Access Point (WAP)				
4.14	Wireless Access Point c/w Controller, Indoor, Internal Antenna as ARUBA/CISCO/RUCKUS Access Point, internal antenna; ceiling mount, Wi-Fi 6; 2x2:2 MIMO or approved equivalent or better.	10	No.		
	IP Telephones				
4.15	Standard Phone: IP Phone, POE, 2x10/100/1000 Ethernet Ports, 2.7" 192x64-pixel graphical LCD, 6-line Keys, 15 (3 pages of 5 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 12 SIP Accounts, 5-way Conferencing, 2 Adjustable Angles, c/w UC License, c/w all necessary accessories as Yealink SIP- T42U or approved equivalent compatible with the IP-PBX.	60	No.		
	Telephone Operator Phone				
4.16	IP Phone, POE, 2x10/100/1000 Ethernet Ports, 4.3" 480 x 272-pixel color display, 10-line Keys, 27 (3 pages of 9 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 16 SIP Accounts, 10-way Conferencing, complete with UC License, c/w all necessary accessories as Yealink SIP- T46U or approved equivalent compatible with the IP-PBX.	1	No.		
	Network cabinet				
4.17	9U Rack wall mounted, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	4	No.		
4.18	42U Rack Floor Standing, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	1	No.		
SHE/178	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	IP-PBX				
4.19	IP-PBX of the following minimum capacity: supportive parts and accessories.: Base Users / Max Users 75/100 • Max Concurrent Calls: 30 • Max FXS Ports: 16 • Max FXO/BRI Ports: 16 • Max GSM/3G/4G Ports: 6 • Max E1/T1/J1 Ports: 2 • Ethernet Interfaces: 2 x (10/100/1000 Mbps) • Hard Disk: 1 SATA (Up to 2TB) • USB 1: (Up to 2TB) as Yeastar or approved equivalent or better c/w UC Licenses, all associated cards and accessories and accessories.	1	No.		
	Expansion Module				
4.2	Expansion Module for the Telephone Operator console as Yealink EXP43Expansion Module or approved equivalent.	1	No.		
	Headphone				
4.21	Wired Headphone compatible with the Telephone Operator console as Yealink YH536 Mono QD RJ9 Wired Headset or approved equivalent.	2	No.		
	UPS				
4.22	Single Phase 240V, 10KVA UPS as APC Smart with multi o/p ports, USB and serial port c/w manual bypass and 15 mins run time.	1	No.		
	CCTV CAMERAS				
4.23	Network Dome Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 40m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2746G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	16	No.		
4.24	Network Bullet Camera: 4MP (2688 × 1520@25 fps), 2.9 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 60m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2646G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	32	No.		
4.25	4MP PTZ camera as Hikvision or approved equivalent	2	No.		
SHE/179	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CCTV Monitoring Screen to approval				
4.26	• Screen Size: 55-inch LED • Pixel Pitch 0.63 mm • Physical Seam 3.5 mm • Resolution 1920 × 1080@60 Hz • Brightness 700 cd/m² • Viewing Angle H&V 178° • Color Depth 8-bit, 16.7 M • Response Time 8 ms	2	No.		
4.27	Surveillance 10TB HDD as Seagate Hawk or approved equivalent	3	No		
	Network Keyboard (Joystick)				
4.28	• Decoding Format H.265 • Decoding Capability4@1080p (FHD) • Decoding FormatH.264, H.265, MPEG4 • Decoding Capability4@1080p • Touch Screen type • Divide video wall into regions to manage video wall by region • Preview camera live image on network keyboard touchscreen	1	No.		
	ISDN & GSM CONNECTIVITY				
4.29	Allow for ISDN and GSM Connectivity Charges from ISP to be identified by the Client	1	Item		
	System Administration PC				
4.30	Desktop PC: HP 280 7th Gen, Intel Core i5, 1TB HDD, 8GB RAM, 20 Inch Screen, LED Backlit Monitor, DVD Super Multi, HDMI port, RJ45 port, VGA port as HP or approved equivalent c/w windows 10 OS or latest.	1	No.		
4.31	Train at least 10No. KSG and SDPW-RWO Technical Officers on administration, operation and maintenance of all the installed systems.	1	Item		
4.32	Test and Commission the DATA, VOICE AND CCTV System to the satisfaction of the Project Engineer and Project Implementation Team.	1	Item		
4.33	Supply to the Project Engineer with Network Documentation entailing As- installed Drawings/Schematics, Cable Test Results, Installation, Operation & Maintenance Manuals for Active Devices in Bound Booklet 3No. copies and in a Flash Disk 2No. Copies.	1	Item		
SHE/180	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE EMERGENCY EVACUATION SYSTEM				
	(To be compliant with relevant parts of EN 54 standard)				
4.34	Speakers cable Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	100	LM		
4.35	Ceiling mounted Fire evacuation speaker, IP 65 outdoor, with the following minimum specifications and to approval: Diameter:213mm Thickness: 65mm Ceiling hole:170 mm Power:6-10W Voltage: 70/110V Frequency response : 100-16kHz Sensitivity : 90dB Loudest pressure level (1m)95dB Speaker:6.5inch	20	No		
4.36	DITTO but wall mounted	16	No		
4.37	350 W, 24VDC network Voice Evacuation Control Panel compatible with Fire alarm control panel to Engineers specifications and approval	1	No		
	Centralized Television system				
4.38	DSTV set with DISH, DECORDER CABLING brackets Extra View plus 12 Months PREMIUM SUBSCRIPTION	1	No		
4.39	5x16 Multi switch for cable distribution	4	No.		
4.40	Satellite amplifier	2	No.		
4.41	TV points comprising Draw wire in concealed PVC conduits	2	No.		
4.42	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
4.43	Coaxial cable for TV works	100	LM		
	Network video recorder				
4.44	• IP video input: 64-ch • In/out BW: 576 /512 Mbps • 2xHDMI o/p: 4K@30Hz, • Decode format H.265, H.265+ • Max. Video resolution 32 MP, • Capability 1-ch@32 MP@30 fps) • Synchronous playback: 16-ch • 16 SATA of Up to 10 TB HDD • RAID 0, 1, 5, 6, 10 • Alarm input/output 16/8 • c/w One extension board: 4x10M/100M/1000M (1.25 Gbps SFP module) As Hikvision DS-96128NI-I16, c/w One Extension Board, 100TB Storage Capacity and all necessary accessories and as further specified or approved	1	no		
SHE/181	SUB TOTAL C/F TO SUMMARY PAGE				

<u>MAIN SUMMARY</u>		
ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Subtotal B/F from schedule 1: - OTHER SPACES	
B	Subtotal B/F from schedule 2: - ROOMS	
C	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
D	Subtotal B/F from schedule 4: - DATA AND VOICE	
E	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase and hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	50,000.00
F	Allow for four sets of 'As Installed Drawings'	
SHE/182	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

GALANA HOSTELS ELECTRICAL WORKS

SCHEDULE NO. 1 – OTHER SPACES

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTING POINTS</u>				
1.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two switching	245	No.		
	<u>SWITCHES</u>				
1.02	10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	5	No.		
	b) one gang two way	3	No.		
	c) two gang one way	0	No.		
	d) two gang two way	2	No.		
	e) three gang two way	2	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9. CRI 80 LED diffused, heat-resistant Luminaire as TRONIC LED Batten or approved equivalent	41	No.		
	b) Ditto as above but twin	5	No.		
	c) LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	2	No.		
	d) 150mm diameter LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 50,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	60	No.		
	e) Decorative ceramic LED internal up and Down wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 50,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light/Gate light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
GHE/184	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 OTHER SPACES -CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) PHOTOCELL/ PIR SENSOR controlled LED Bulkhead with IP65, 50 W, pf ≥0.9, 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with all necessary accessories as TRONIC or approved equivalent.	22	No.		
	j) PHOTOCELL/ PIR SENSOR controlled LED Floodlight with IP65, 50 W, pf ≥0.9, 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with the PHOTOCELL/PIR SENSOR and all necessary accessories as TRONIC or approved equivalent.	5	No.		
	k) 600 x 600 recessed LED Panel to client's approval	0	No.		
	l) Decorative Crystal silver Track Lights to clients approval	20	No.		
	m) Decorative hanging pendant and chandeliers to client's approval	6	No.		
	n) Mirror Light to client's approval	2	No.		
	o) Emergency exit light to approval	36	No.		
	p) Emergency light fitting with 3 hours operation	40	No.		
	q) LED strip complete with diffuser to client's approval	40	LM		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	50	No.		
1.05	13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single.	1	No.		
	b) twin.	20	No.		
	c) twin, Splash proof with neon Indicator	25	No.		
	d) twin, with 2 USB ports with neon Indicator	4	No.		
1.06	Isolator equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	5	No.		
1.07	20 Amps Single phase isolator with industrial socket as SCHNEIDER or approved equivalent for items above	5	No.		
1.08	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	2	No.		
1.09	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	2	No.		
GHE/185	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 OTHER SPACES -CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
1.10	Cooker point comprising of 3x6mm ² PVICI Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	1	No		
1.11	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	1	No		
1.12	Cooker connection unit for item above.	1	No.		
1.13	16A Socket outlet points wired radial from DB comprising of 3x4 mm sq. single core PVICI copper cables drawn in concealed 25mm HG PVC conduits for the bakery Kitchen equipment	2	No.		
1.14	16A 3 Pin Watertight, IP 44 Industrial socket outlets	2	No.		
1.15	IP65 rated, 20A SPN Isolator switch for item above as KATKO or approved equivalent	2	No.		
1.16	16A Socket outlet points wired radial from DB comprising of 5x6.0 mm sq. single core PVICI copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.17	16A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.18	IP65 rated, 20A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
1.19	5x 10 mm sq single core cables for kitchen equipment	20	LM		
1.20	32A Socket outlet points wired radial from DB comprising of 5x10.0 mm sq. single core PVICI copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.21	32A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.22	IP65 rated, 32A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
	TRUNKING AND CABLE TRAY				
1.23	200x50mm two compartment Powder coated, anti-rusting Trunking as per details shown complete with covers, bends, face plates for both power sockets and data plates and all fixing accessories. The Trunking to angular section fixed at skirting level. Allow for colour change to client's detail.	30	LM		
1.24	300mm x 50mm steel Cable tray complete with covers, bends, joints, mounting brackets and all other necessary accessories and parts. To be installed in Electrical Ducts	50	LM		
GHE/186	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 OTHER SPACES -CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE ALARM SYSTEM				
	(to be compliant with relevant parts of EN 54 standard)				
1.25	Fire alarm points wired in 3x2.5mm ² Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	51	No		
1.26	Intelligent addressable LED flushing sounder beacon complete with all necessary accessories as EATON or approved equivalent.	10	No		
1.27	Intelligent addressable Smoke detectors/Heat detector complete with all necessary accessories as EATON or approved equivalent.	30	No		
1.28	Intelligent addressable Fire break glass Manual call point unit as EATON or approved equivalent complete with all necessary accessories	10	No		
1.29	2 loop, Intelligent addressable Fire alarm control panel complete with Battery and charger as EATON or approved equivalent	1	No		
	<u>PROVISIONS</u>				
1.30	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	20	No.		
1.31	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	10	No.		
1.32	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	10	No.		
1.33	TV points comprising Draw wire in concealed PVC conduits	2	No.		
1.34	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
1.35	65-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	2	No		
1.36	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	50	No.		
1.37	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	40	No.		
1.38	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	24	No.		
1.39	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	10	No.		
GHE/187	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 OTHER SPACES -CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CONSUMER UNITS/DISTRIBUTION BOARDS				
1.40	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	2	No.		
1.41	12 ways TPN, SURFACE mounted Distribution Board complete with 125A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	10	No.		
1.42	MCB's for item above				
	(a) 10A, SP	40	No.		
	(b) 20A, SP	80	No.		
	(c) 30A, SP	40	No.		
	(d) 30A TP	20	No.		
	(e) Blanking plates	40	No.		
1.43	Airtight FLOORBOX/PEDESTAL complete with wiring/cabling and fittings for 4No twin sockets, 4No data & telephone dual plate and 1 No HDMI 1, No VGA connectors complete with all accessories.	4	No.		
	POWER DISTRIBUTION CABLES				
1.44	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Distribution Board to Consumer Unit (AVERAGE 25 m LONG)	20	LM		
1.45	5x 25mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Cable loop in Box to Distribution Boards (AVERAGE 15 m LONG)	50	LM		
1.46	4x 95mm ² PVC/SWA/PVC armored Copper cables in cable trench and concealed HG PVC conduits from meter board to Cable loop in Box	75	LM		
1.47	4 pole 200 A TPN adjustable MCCB complete with all accessories for the above cable	2	No.		
1.48	100mm diameter PVC duct with concrete surround and HATARI markers complete with all accessories.	75	LM		
1.49	600x600x600mm Manholes.	6	No.		
	EARTHING				
1.50	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	3	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	3	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	3	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	3	No.		
	e) 6mm sq. SC PVCI Copper cables.	10	LM		
GHE/188	SUB TOTAL C/F TO SUMMARY PAGE				

SCHEDULE NO. 2 ROOMS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTING POINTS</u>				
2.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two-way switching	11	No.		
	<u>SWITCHES</u>				
2.02	decorative zinc/silver/gold coated 10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	1	No.		
	b) one gang two way	2	No.		
	c)two gang one way	1	No.		
	d)two gang two way	1	No.		
	e) three gang two way	0	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	g) Dimmer	1	No.		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9, CRI 80 LED diffused, heat resistant Luminaire as TRONIC LED Batten or approved equivalent	0	No.		
	b) Ditto as above but twin	0	No.		
	c) DECORATIVE DIMMABLE LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	1	No.		
	d) 150mm diameter DECORATIVE LED Downlight luminaire with 900 lumens,4000K, 10W, pf ≥0.9, at least 20,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	1	No.		
	e) Decorative ceramic LED internal up and down flexible/adjustable wall light luminaire with 1000 lumens,4000K, 10W, pf ≥0.9, at least 20,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	1	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens,4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light luminaire with 3000 lumens,4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens,4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
GHE/189	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) Circular Bedside LED Reading Light 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	j) Decorative rechargeable, portable LED desk lamp/reading lamp 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	k) Emergency exit light to approval	0	No.		
	l) Emergency light fitting with 3 hours operation	1	No.		
	m) LED strip complete with diffuser to client's approval	3	LM		
	n) DECORATIVE Mirror Light to client's approval	1	No.		
	n) DECORATIVE SHAVER UNIT to client's approval	1	No.		
	SOCKET OUTLETS AND OTHER POWER POINTS				
2.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	8	No.		
2.05	decorative zinc/silver/gold coated 13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single universal socket with 1 USB ports with neon Indicator	1	No.		
	b) twin.	1	No.		
	c) twin, Splash proof with neon Indicator	0	No.		
	d) twin, universal with 2 USB ports with neon Indicator	1	No.		
2.06	Shaver unit/Hair drier power point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.07	Shaver unit with Dual Voltage 240/110V to clients approval.	1	No.		
2.08	Hair drier unit to client's approval	1	No.		
2.09	Instant shower/extract fan/under sink heater/Air Condition/ radial equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.10	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	1	No.		
2.11	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	0	No.		
2.12	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	0	No.		
GHE/190	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.13	Cooker point comprising of 3x6mm ² PPCI Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	0	No		
2.14	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	0	No		
2.15	Cooker connection unit for item above.	0	No.		
2.16	DND-Do not Disturb Signage and Switch and Hotel Key Card switch point comprising of 3x1.5mm ² PPCI Copper cables together with appropriate signal cables drawn in concealed 20mm dia. HG PVC conduits from CU	1	No		
2.17	240V DND-Do not Disturb Signage and Switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.18	Hotel Key Card switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.19	Decorative RFID card door access system with Smart Lock Hotel Lock with advanced card technology, IP 54 or higher, ability of reading and writing to the guest and staff cards, with simple user-friendly professional lock management software, ability to access Audit trail records of at least 200 lock transactions, complete with all accessories, power supply and battery, the system should come with warning beeps in low battery power and as per the approval. The system should come with card programming kits to be stationed at the reception	1	No		
2.20	32-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	1	No		
	PROVISIONS				
2.21	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	1	No.		
2.22	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	1	No.		
2.23	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	1	No.		
2.24	TV points comprising Draw wire in concealed PVC conduits	1	No.		
2.25	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	1	No.		
2.26	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	0	No.		
2.27	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
GHE/191	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.28	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
2.29	Smart automatic Motorized curtain opener system for rails and rods complete with all components including remote control units.	0	No.		
2.30	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	1	No.		
	CONSUMER UNITS/DISTRIBUTION BOARDS				
2.31	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator, with CARD CONTROLLED SYSTEM as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
2.32	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	1	No.		
	(d) 45A SP	0	No.		
	(e) Blanking plates	2	No.		
	SUB-MAIN POWER DISTRIBUTION				
2.33	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from meter board to Consumer Unit	10	LM		
2.34	100mm diameter PVC duct with concrete surround complete with all accessories.	0	LM		
2.35	750x750x750mm Manholes.	0	No.		
	EARTHING				
2.36	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	0	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	0	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	0	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	0	No.		
	e) 6mm sq. SC PVCI Copper cables.	0	LM		
	SUB TOTAL FOR 1 No. ROOM				
	MULTIPLY BY NO. OF ROOMS			24	
GHE/192	SUB TOTAL FOR 24 ROOMS C/F TO SUMMARY PAGE				

SCHEDULE NO. 3 -LIGHTNING PROTECTION SYSTEM

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	40	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	6	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	20	LM		
3.04	Copper square tape clamp for making crossing tape joints	20	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with saddles	6	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	2	No.		
	b) 15 mm dia. Driving stud as FURSE Cat. No. ST100.	2	No.		
	c) Rod to tape clamp as FURSE.	2	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (or a well-made 320mm x 320mm x 210 mm depth pit.)	2	No.		
	e) 25x3mm copper tape	10	LM		
GHE/193	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

SCHEDULE NO. 4 -DATA AND VOICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	Horizontal cabling:				
4.01	Four pair CAT 6A cable as Siemons or approved equivalent drawn in the existing Trunking with both ends terminated at the patch panel and at RJ45 face plates at the network edge.	2250	LM		
4.02	Single CAT 6A RJ45 face plates as Siemons or approved equivalent complete with Modules.	60	No.		
4.03	CAT 6A 48-Port RJ45 Patch Panels as Siemons or approved equivalent	4	No.		
4.04	1U WM series rack mount cable managers	8	No.		
4.05	CAT 6A 1m, 4-pair RJ45-RJ45 patch cords	120	No.		
4.06	CAT 6A 3m, 4-pair RJ45-RJ45 patch cords	120	No.		
4.07	10G SFP multimode transceiver modules plus termination kit	4	No.		
4.08	8-core fiber optic cable (50/125) indoor	20	LM		
4.09	Complete Fiber Enclosure Panel	1	No.		
4.1	Labeling of ports (both ends)	60	No.		
4.11	Network CAT 6A Cable Testing to industry standard and documentation of test results in 3No. Bounded Hard and 2No. Soft Copies in appropriate media.	60	No.		
	Data/ Voice EDGE Switch				
4.12	48 10/100/1000 PoE+ ports with 370W power budget, 4 X 10 Gigabit SFP+, Stackable Rack-mountable as ARUBA/CISCO/RUCKUS c/w all necessary parts or approved equivalent.	2	No.		
	Data/ Voice CORE Switch				
4.13	12 x 10 Gigabit SFP+, 2 x 10 Gigabit copper ports (combo with 2 x SFP+), 1 x GE management port, Rack- mountable as ARUBA/CISCO/RUCKUS or approved equivalent c/w all necessary accessories.	1	No.		
	Wireless Access Point (WAP)				
4.14	Wireless Access Point c/w Controller, Indoor, Internal Antenna as ARUBA/CISCO/RUCKUS Access Point, internal antenna; ceiling mount, Wi-Fi 6; 2x2:2 MIMO or approved equivalent or better.	30	No.		
	IP Telephones				
4.15	Standard Phone: IP Phone, POE, 2x10/100/1000 Ethernet Ports, 2.7" 192x64-pixel graphical LCD, 6-line Keys, 15 (3 pages of 5 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 12 SIP Accounts, 5-way Conferencing, 2 Adjustable Angles, c/w UC License, c/w all necessary accessories as Yealink SIP- T42U or approved equivalent compatible with the IP-PBX.	30	No.		
	Telephone Operator Phone				
4.16	IP Phone, POE, 2x10/100/1000 Ethernet Ports, 4.3" 480 x 272-pixel color display, 10-line Keys, 27 (3 pages of 9 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 16 SIP Accounts, 10-way Conferencing, complete with UC License, c/w all necessary accessories as Yealink SIP- T46U or approved equivalent compatible with the IP-PBX.	1	No.		
	Network cabinet				
4.17	9U Rack wall mounted, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	4	No.		
4.18	42U Rack Floor Standing, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	1	No.		
GHE/194	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 -DATA AND VOICE – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	IP-PBX				
4.19	IP-PBX of the following minimum capacity: supportive parts and accessories.: Base Users / Max Users 75/100 • Max Concurrent Calls: 30 • Max FXS Ports: 16 • Max FXO/BRI Ports: 16 • Max GSM/3G/4G Ports: 6 • Max E1/T1/J1 Ports: 2 • Ethernet Interfaces: 2 x (10/100/1000 Mbps) • Hard Disk: 1 SATA (Up to 2TB) • USB 1: (Up to 2TB) as Yeastar or approved equivalent or better c/w UC Licenses, all associated cards and accessories and accessories.	1	No.		
	Expansion Module				
4.2	Expansion Module for the Telephone Operator console as Yealink EXP43Expansion Module or approved equivalent.	1	No.		
	Headphone				
4.21	Wired Headphone compatible with the Telephone Operator console as Yealink YHS36 Mono QD RJ9 Wired Headset or approved equivalent.	2	No.		
	UPS				
4.22	Single Phase 240V, 10KVA UPS as APC Smart with multi o/p ports, USB and serial port c/w manual bypass and 15 mins run time.	1	No.		
	CCTV CAMERAS				
4.23	Network Dome Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 40m, D(64m) O (25.4m) R (12.8) I(6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2746G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	8	No.		
4.24	Network Bullet Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 60m, D(64m) O (25.4m) R(12.8) I(6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2646G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	25	No.		
4.25	4MP PTZ camera as Hikvision or approved equivalent	2	No.		
GHE/195	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 -DATA AND VOICE – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CCTV Monitoring Screen to approval				
4.26	• Screen Size: 55-inch LED • Pixel Pitch 0.63 mm • Physical Seam 3.5 mm • Resolution 1920 × 1080@60 Hz • Brightness 700 cd/m² • Viewing Angle H&V 178° • Color Depth 8-bit, 16.7 M • Response Time 8 ms	2	No.		
4.27	Surveillance 10TB HDD as Seagate Hawk or approved equivalent	3	No		
	Network Keyboard (Joystick)				
4.28	• Decoding Format H.265 • Decoding Capability 4@1080p (FHD) • Decoding Format H.264, H.265, MPEG4 • Decoding Capability 4@1080p • Touch Screen type • Divide video wall into regions to manage video wall by region • Preview camera live image on network keyboard touchscreen	1	No.		
	ISDN & GSM CONNECTIVITY				
4.29	Allow for ISDN and GSM Connectivity Charges from ISP to be identified by the Client	1	Item		
	System Administration PC				
4.30	Desktop PC: HP 280 7th Gen, Intel Core i5, 1TB HDD, 8GB RAM, 20 Inch Screen, LED Backlit Monitor, DVD Super Multi, HDMI port, RJ45 port, VGA port as HP or approved equivalent c/w windows 10 OS or latest.	1	No.		
4.31	Train at least 10 No. KSG and SDPW-RWO Technical Officers on administration, operation and maintenance of all the installed systems.	1	Item		
4.32	Test and Commission the DATA, VOICE AND CCTV System to the satisfaction of the Project Engineer and Project Implementation Team.	1	Item		
4.33	Supply to the Project Engineer with Network Documentation entailing As- installed Drawings/Schematics, Cable Test Results, Installation, Operation & Maintenance Manuals for Active Devices in Bound Booklet 3 No. copies and in a Flash Disk 2 No. Copies.	1	Item		
GHE/196	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 -DATA AND VOICE – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE EMERGENCY EVACUATION SYSTEM				
	(to be compliant with relevant parts of EN 54 standard)				
4.34	Speakers cable Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	100	LM		
4.35	Ceiling mounted Fire evacuation speaker, IP 65 outdoor, with the following minimum specifications and to approval: Diameter:213mm Thickness: 65mm Ceiling hole:170 mm Power:6-10W Voltage: 70/110V Frequency response : 100-16kHz Sensitivity : 90dB Loudest pressure level (1m)95dB Speaker:6.5inch	20	No		
4.36	DITTO but wall mounted	16	No		
4.37	350 W, 24VDC network Voice Evacuation Control Panel compatible with Fire alarm control panel to Engineers specifications and approval	1	No		
	Centralized Television system				
4.38	DSTV set with DISH, DECODER CABLING brackets Extra View plus 12 Months PREMIUM SUBSCRIPTION	1	No		
4.39	5x16 Multi switch for cable distribution	4	No.		
4.40	Satellite amplifier	2	No.		
4.41	TV points comprising Draw wire in concealed PVC conduits	2	No.		
4.42	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
4.43	Coaxial cable for TV works	100	LM		
	Network video recorder				
4.44	• IP video input: 64-ch • In/out BW: 576 /512 Mbps • 2xHDMI o/p: 4K@30Hz, • Decode format H.265, H.265+ • Max. Video resolution 32 MP, • Capability 1-ch@32 MP@30 fps) • Synchronous playback: 16-ch • 16 SATA of Up to 10 TB HDD • RAID 0, 1, 5, 6, 10 • Alarm input/output 16/8 • c/w One extension board: 4x10M/100M/1000M (1.25 Gbps SFP module) As Hikvision DS-96128NI-I16, c/w One Extension Board, 100TB Storage Capacity and all necessary accessories and as further specified or approved	1	no		
GHE/197	SUB TOTAL C/F TO SUMMARY PAGE				

MAIN SUMMARY		
ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Subtotal B/F from schedule 1: - OTHER SPACES	
B	Subtotal B/F from schedule 2: - ROOMS	
C	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
D	Subtotal B/F from schedule 4: - DATA AND VOICE	
E	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase and hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	50,000.00
F	Allow for four sets of 'As Installed Drawings'	
GHE/198	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

MZIMA HOSTELS ELECTRICAL WORKS

SCHEDULE NO. 1 – OTHER SPACES

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTING POINTS</u>				
1.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two switching	245	No.		
	<u>SWITCHES</u>				
1.02	10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	5	No.		
	b) one gang two way	3	No.		
	c) two gang one way	0	No.		
	d) two gang two way	2	No.		
	e) three gang two way	2	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9. CRI 80 LED diffused, heat-resistant Luminaire as TRONIC LED Batten or approved equivalent	41	No.		
	b) Ditto as above but twin	5	No.		
	c) LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	2	No.		
	d) 150mm diameter LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 50,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	60	No.		
	e) Decorative ceramic LED internal up and Down wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 50,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light/Gate light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
MHE/200	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 – OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) PHOTOCELL/ PIR SENSOR controlled LED Bulkhead with IP65, 50 W, pf ≥0.9, 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with all necessary accessories as TRONIC or approved equivalent.	22	No.		
	j) PHOTOCELL/ PIR SENSOR controlled LED Floodlight with IP65, 50 W, pf ≥0.9, 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with the PHOTOCELL/PIR SENSOR and all necessary accessories as TRONIC or approved equivalent.	5	No.		
	k) 600 x 600 recessed LED Panel to client's approval	0	No.		
	l) Decorative Crystal silver Track Lights to clients approval	20	No.		
	m) Decorative hanging pendant and chandeliers to clients approval	6	No.		
	n) Mirror Light to client's approval	2	No.		
	o) Emergency exit light to approval	36	No.		
	p) Emergency light fitting with 3 hours operation	40	No.		
	q) LED strip complete with diffuser to client's approval	40	LM		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	50	No.		
1.05	13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single.	1	No.		
	b) twin.	20	No.		
	c) twin, Splash proof with neon Indicator	25	No.		
	d) twin, with 2 USB ports with neon Indicator	4	No.		
1.06	Isolator equipment power point comprising wiring in 3x4mm² PVC-SC-CU cables in concealed PVC conduits	5	No.		
1.07	20 Amps Single phase isolator with industrial socket as SCHNEIDER or approved equivalent for items above	5	No.		
1.08	Ground level booster pump point comprising wiring in 3x4mm² PVC-SC-CU cables in concealed PVC conduits	2	No.		
1.09	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	2	No.		
MHE/201	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 – OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
1.10	Cooker point comprising of 3x6mm ² PVCI Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	1	No		
1.11	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	1	No		
1.12	Cooker connection unit for item above.	1	No.		
1.13	16A Socket outlet points wired radial from DB comprising of 3x4 mm sq. single core PVCI copper cables drawn in concealed 25mm HG PVC conduits for the bakery Kitchen equipment	2	No.		
1.14	16A 3 Pin Watertight, IP 44 Industrial socket outlets	2	No.		
1.15	IP65 rated, 20A SPN Isolator switch for item above as KATKO or approved equivalent	2	No.		
1.16	16A Socket outlet points wired radial from DB comprising of 5x6.0 mm sq. single core PVCI copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.17	16A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.18	IP65 rated, 20A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
1.19	5x 10 mm sq single core cables for kitchen equipment	20	LM		
1.20	32A Socket outlet points wired radial from DB comprising of 5x10.0 mm sq. single core PVCI copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.21	32A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.22	IP65 rated, 32A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
	TRUNKING AND CABLE TRAY				
1.23	200x50mm two compartment Powder coated, anti-rusting Trunking as per details shown complete with covers, bends, face plates for both power sockets and data plates and all fixing accessories. The Trunking to angular section fixed at skirting level. Allow for colour change to client's detail.	30	LM		
1.24	300mm x 50mm steel Cable tray complete with covers, bends, joints, mounting brackets and all other necessary accessories and parts. To be installed in Electrical Ducts	50	LM		
MHE/202	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 – OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE ALARM SYSTEM				
	(to be compliant with relevant parts of EN 54 standard)				
1.25	Fire alarm points wired in 3x2.5mm ² Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	100	No		
1.26	Intelligent addressable LED flushing sounder beacon complete with all necessary accessories as EATON or approved equivalent.	25	No		
1.27	Intelligent addressable Smoke detectors/Heat detector complete with all necessary accessories as EATON or approved equivalent.	50	No		
1.28	Intelligent addressable Fire break glass Manual call point unit as EATON or approved equivalent complete with all necessary accessories	25	No		
1.29	2 loop, Intelligent addressable Fire alarm control panel complete with Battery and charger as EATON or approved equivalent	1	No		
	PROVISIONS				
1.30	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	20	No.		
1.31	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	10	No.		
1.32	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	10	No.		
1.33	TV points comprising Draw wire in concealed PVC conduits	2	No.		
1.34	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
1.35	65-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	2	No		
1.36	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	50	No.		
1.37	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	40	No.		
1.38	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	24	No.		
1.39	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	10	No.		
MHE/203	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 – OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
1.40	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	2	No.		
1.41	12 ways TPN, SURFACE mounted Distribution Board complete with 125A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	10	No.		
1.42	MCB's for item above				
	(a) 10A, SP	40	No.		
	(b) 20A, SP	80	No.		
	(c) 30A, SP	40	No.		
	(d) 30A TP	20	No.		
	(e) Blanking plates	40	No.		
1.43	Airtight FLOORBOX/PEDESTAL complete with wiring/cabling and fittings for 4No twin sockets, 4No data & telephone dual plate and 1 No HDMI 1, No VGA connectors complete with all accessories.	4	No.		
	<u>POWER DISTRIBUTION CABLES</u>				
1.44	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Distribution Board to Consumer Unit (AVERAGE 25 m LONG)	55	LM		
1.45	5x 25mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Cable loop in Box to Distribution Boards (AVERAGE 15 m LONG)	20	LM		
1.46	4x 95mm ² PVC/SWA/PVC armored Copper cables in cable trench and concealed HG PVC conduits from meter board to Cable loop in Box	50	LM		
1.47	4 pole 200 A TPN adjustable MCCB complete with all accessories for the above cable	2	No.		
1.48	100mm diameter PVC duct with concrete surround and HATARI markers complete with all accessories.	50	LM		
1.49	600x600x600mm Manholes.	6	No.		
	<u>EARTHING</u>				
1.50	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	3	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	3	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	3	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	3	No.		
	e) 6mm sq. SC PVCI Copper cables.	10	LM		
MHE/204	SUB TOTAL C/F TO SUMMARY PAGE				

SCHEDULE NO. 2 – ROOMS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTING POINTS</u>				
2.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two-way switching	11	No.		
	<u>SWITCHES</u>				
2.02	decorative zinc/silver/gold coated 10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	1	No.		
	b) one gang two way	2	No.		
	c) two gang one way	1	No.		
	d) two gang two way	1	No.		
	e) three gang two way	0	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	g) Dimmer	1	No.		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9, CRI 80 LED diffused, heat resistant Luminaire as TRONIC LED Batten or approved equivalent	0	No.		
	b) Ditto as above but twin	0	No.		
	c) DECORATIVE DIMMABLE LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	1	No.		
	d) 150mm diameter DECORATIVE LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	1	No.		
	e) Decorative ceramic LED internal up and down flexible/adjustable wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	1	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
MHE/205	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 – ROOMS – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) Circular Bedside LED Reading Light 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	j) Decorative rechargeable, portable LED desk lamp/reading lamp 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	k) Emergency exit light to approval	0	No.		
	l) Emergency light fitting with 3 hours operation	1	No.		
	m) LED strip complete with diffuser to client's approval	3	LM		
	n) DECORATIVE Mirror Light to client's approval	1	No.		
	n) DECORATIVE SHAVER UNIT to client's approval	1	No.		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
2.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	8	No.		
2.05	decorative zinc/silver/gold coated 13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single universal socket with 1 USB ports with neon Indicator	1	No.		
	b) twin.	1	No.		
	c) twin, Splash proof with neon Indicator	0	No.		
	d) twin, universal with 2 USB ports with neon Indicator	1	No.		
2.06	Shaver unit/Hair drier power point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.07	Shaver unit with Dual Voltage 240/110V to clients approval.	1	No.		
2.08	Hair drier unit to client's approval	1	No.		
2.09	Instant shower/extract fan/under sink heater/Air Condition/ radial equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.10	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	1	No.		
2.11	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	0	No.		
2.12	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	0	No.		
MHE/206	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 – ROOMS – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.13	Cooker point comprising of 3x6mm ² PPCI Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	0	No		
2.14	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	0	No		
2.15	Cooker connection unit for item above.	0	No.		
2.16	DND-Do not Disturb Signage and Switch and Hotel Key Card switch point comprising of 3x1.5mm ² PPCI Copper cables together with appropriate signal cables drawn in concealed 20mm dia. HG PVC conduits from CU	1	No		
2.17	240V DND-Do not Disturb Signage and Switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.18	Hotel Key Card switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.19	Decorative RFID card door access system with Smart Lock Hotel Lock with advanced card technology, IP 54 or higher, ability of reading and writing to the guest and staff cards, with simple user-friendly professional lock management software, ability to access Audit trail records of at least 200 lock transactions, complete with all accessories, power supply and battery, the system should come with warning beeps in low battery power and as per the approval. The system should come with card programming kits to be stationed at the reception	1	No		
2.20	32-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	1	No		
	PROVISIONS				
2.21	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	1	No.		
2.22	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	1	No.		
2.23	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	1	No.		
2.24	TV points comprising Draw wire in concealed PVC conduits	1	No.		
2.25	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	1	No.		
2.26	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	0	No.		
2.27	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
MHE/207	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 – ROOMS – CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.28	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
2.29	Smart automatic Motorized curtain opener system for rails and rods complete with all components including remote control units.	0	No.		
2.30	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	1	No.		
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
2.31	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator, with CARD CONTROLLED SYSTEM as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
2.32	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	1	No.		
	(d) 45A SP	0	No.		
	(e) Blanking plates	2	No.		
	<u>SUB-MAIN POWER DISTRIBUTION</u>				
2.33	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from meter board to Consumer Unit	10	LM		
2.34	100mm diameter PVC duct with concrete surround complete with all accessories.	0	LM		
2.35	750x750x750mm Manholes.	0	No.		
	<u>EARTHING</u>				
2.36	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	0	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	0	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	0	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	0	No.		
	e) 6mm sq. SC PVCI Copper cables.	0	LM		
	SUB TOTAL FOR 1 No. ROOM				
	MULTIPLY BY NO. OF ROOMS			66	
MHE/208	SUB TOTAL FOR 66 NO ROOMS C/F TO SUMMARY PAGE				

SCHEDULE NO. 3 – ROOMS – LIGHTNING PROTECTION

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	100	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	6	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	50	LM		
3.04	Copper square tape clamp for making crossing tape joints	20	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with saddles	12	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	4	No.		
	b) 15 mm dia. Driving stud as FURSE Cat. No. ST100.	4	No.		
	c) Rod to tape clamp as FURSE.	4	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (or a well-made 320mm x 320mm x 210 mm depth pit.)	4	No.		
	e) 25x3mm copper tape	20	LM		
MHE/209	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

SCHEDULE NO. 4 DATA AND VOICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	Horizontal cabling:				
4.01	Four pair CAT 6A cable as Siemons or approved equivalent drawn in the existing Trunking with both ends terminated at the patch panel and at RJ45 face plates at the network edge.	4250	LM		
4.02	Single CAT 6A RJ45 face plates as Siemons or approved equivalent complete with Modules.	60	No.		
4.03	CAT 6A 48-Port RJ45 Patch Panels as Siemons or approved equivalent	4	No.		
4.04	1U WM series rack mount cable managers	8	No.		
4.05	CAT 6A 1m, 4-pair RJ45-RJ45 patch cords	120	No.		
4.06	CAT 6A 3m, 4-pair RJ45-RJ45 patch cords	120	No.		
4.07	10G SFP multimode transceiver modules plus termination kit	4	No.		
4.08	8-core fiber optic cable (50/125) indoor	20	LM		
4.09	Complete Fiber Enclosure Panel	1	No.		
4.1	Labeling of ports (both ends)	60	No.		
4.11	Network CAT 6A Cable Testing to industry standard and documentation of test results in 3No. Bounded Hard and 2No. Soft Copies in appropriate media.	60	No.		
	Data/ Voice EDGE Switch				
4.12	48 10/100/1000 PoE+ ports with 370W power budget, 4 X 10 Gigabit SFP+, Stackable Rack-mountable as ARUBA/CISCO/RUCKUS c/w all necessary parts or approved equivalent.	4	No.		
	Data/ Voice CORE Switch				
4.13	12 x 10 Gigabit SFP+, 2 x 10 Gigabit copper ports (combo with 2 x SFP+), 1 x GE management port, Rack- mountable as ARUBA/CISCO/RUCKUS or approved equivalent c/w all necessary accessories.	1	No.		
	Wireless Access Point (WAP)				
4.14	Wireless Access Point c/w Controller, Indoor, Internal Antenna as ARUBA/CISCO/RUCKUS Access Point, internal antenna; ceiling mount, Wi-Fi 6; 2x2:2 MIMO or approved equivalent or better.	10	No.		
	IP Telephones				
4.15	Standard Phone: IP Phone, POE, 2x10/100/1000 Ethernet Ports, 2.7" 192x64-pixel graphical LCD, 6-line Keys, 15 (3 pages of 5 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 12 SIP Accounts, 5-way Conferencing, 2 Adjustable Angles, c/w UC License, c/w all necessary accessories as Yealink SIP- T42U or approved equivalent compatible with the IP-PBX.	60	No.		
	Telephone Operator Phone				
4.16	IP Phone, POE, 2x10/100/1000 Ethernet Ports, 4.3" 480 x 272-pixel color display, 10-line Keys, 27 (3 pages of 9 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 16 SIP Accounts, 10-way Conferencing, complete with UC License, c/w all necessary accessories as Yealink SIP- T46U or approved equivalent compatible with the IP-PBX.	1	No.		
	Network cabinet				
4.17	9U Rack wall mounted, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	4	No.		
4.18	42U Rack Floor Standing, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	1	No.		
MHE/210	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	IP-PBX				
4.19	IP-PBX of the following minimum capacity: supportive parts and accessories.: Base Users / Max Users 75/100 • Max Concurrent Calls: 30 • Max FXS Ports: 16 • Max FXO/BRI Ports: 16 • Max GSM/3G/4G Ports: 6 • Max E1/T1/J1 Ports: 2 • Ethernet Interfaces: 2 x (10/100/1000 Mbps) • Hard Disk: 1 SATA (Up to 2TB) • USB 1: (Up to 2TB) as Yeastar or approved equivalent or better c/w UC Licenses, all associated cards and accessories and accessories.	1	No.		
	Expansion Module				
4.2	Expansion Module for the Telephone Operator console as Yealink EXP43Expansion Module or approved equivalent.	1	No.		
	Headphone				
4.21	Wired Headphone compatible with the Telephone Operator console as Yealink YHS36 Mono QD RJ9 Wired Headset or approved equivalent.	2	No.		
	UPS				
4.22	Single Phase 240V, 10KVA UPS as APC Smart with multi o/p ports, USB and serial port c/w manual bypass and 15 mins run time.	1	No.		
	CCTV CAMERAS				
4.23	Network Dome Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 60m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2746G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	16	No.		
4.24	Network Bullet Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 60m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2646G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	32	No.		
4.25	4MP PTZ camera as Hikvision or approved equivalent	2	No.		
MHE/211	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CCTV Monitoring Screen to approval				
4.26	• Screen Size: 55-inch LED • Pixel Pitch 0.63 mm • Physical Seam 3.5 mm • Resolution 1920 × 1080@60 Hz • Brightness 700 cd/m² • Viewing Angle H&V 178° • Color Depth 8-bit, 16.7 M • Response Time 8 ms	2	No.		
4.27	Surveillance 10TB HDD as Seagate Hawk or approved equivalent	3	No		
	Network Keyboard (Joystick)				
4.28	• Decoding Format H.265 • Decoding Capability 4@1080p (FHD) • Decoding Format H.264, H.265, MPEG4 • Decoding Capability 4@1080p • Touch Screen type • Divide video wall into regions to manage video wall by region • Preview camera live image on network keyboard touchscreen	1	No.		
	ISDN & GSM CONNECTIVITY				
4.29	Allow for ISDN and GSM Connectivity Charges from ISP to be identified by the Client	1	Item		
	System Administration PC				
4.30	Desktop PC: HP 280 7th Gen, Intel Core i5, 1TB HDD, 8GB RAM, 20 Inch Screen, LED Backlit Monitor, DVD Super Multi, HDMI port, RJ45 port, VGA port as HP or approved equivalent c/w windows 10 OS or latest.	1	No.		
4.31	Train at least 10 No. KSG and SDPW-RWO Technical Officers on administration, operation and maintenance of all the installed systems.	1	Item		
4.32	Test and Commission the DATA, VOICE AND CCTV System to the satisfaction of the Project Engineer and Project Implementation Team.	1	Item		
4.33	Supply to the Project Engineer with Network Documentation entailing As- installed Drawings/Schematics, Cable Test Results, Installation, Operation & Maintenance Manuals for Active Devices in Bound Booklet 3 No. copies and in a Flash Disk 2 No. Copies.	1	Item		
MHE/212	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE EMERGENCY EVACUATION SYSTEM				
	(To be compliant with relevant parts of EN 54 standard)				
4.34	Speakers cable Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	100	LM		
4.35	Ceiling mounted Fire evacuation speaker, IP 65 outdoor, with the following minimum specifications and to approval: Diameter:213mm Thickness: 65mm Ceiling hole:170 mm Power:6-10W Voltage: 70/110V Frequency response : 100-16kHz Sensitivity : 90dB Loudest pressure level (1m)95dB Speaker:6.5inch	20	No		
4.36	DITTO but wall mounted	16	No		
4.37	350 W, 24VDC network Voice Evacuation Control Panel compatible with Fire alarm control panel to Engineers specifications and approval	1	No		
	Centralized Television system				
4.38	DSTV set with DISH, DECORDER CABLING brackets Extra View plus 12 Months PREMIUM SUBSCRIPTION	1	No		
4.39	5x16 multi-switch for cable distribution	4	No.		
4.40	Satellite amplifier	2	No.		
4.41	TV points comprising Draw wire in concealed PVC conduits	2	No.		
4.42	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
4.43	Coaxial cable for TV works	100	LM		
	Network video recorder				
4.44	• IP video input: 64-ch • In/out BW: 576 /512 Mbps • 2xHDMI o/p: 4K@30Hz, • Decode format H.265, H.265+ • Max. Video resolution 32 MP, • Capability 1-ch@32 MP@30 fps) • Synchronous playback: 16-ch • 16 SATA of Up to 10 TB HDD • RAID 0, 1, 5, 6, 10 • Alarm input/output 16/8 • c/w One extension board: 4x10M/100M/1000M (1.25 Gbps SFP module) As Hikvision DS-96128NI-I16, c/w One Extension Board, 100TB Storage Capacity and all necessary accessories and as further specified or approved	1	no		
MHE/213	SUB TOTAL C/F TO SUMMARY PAGE				

<u>MAIN SUMMARY</u>		
ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Subtotal B/F from schedule 1: - OTHER SPACES	
B	Subtotal B/F from schedule 2: - ROOMS	
C	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
D	Subtotal B/F from schedule 4: - DATA AND VOICE	
E	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase and hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	50,000.00
F	Allow for four sets of 'As Installed Drawings'	
MHE/214	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

MARERE HOSTELS ELECTRICALS

SCHEDULE NO. 1 OTHER SPACES

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTING POINTS</u>				
1.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two switching	60	No.		
	<u>SWITCHES</u>				
1.02	10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	5	No.		
	b) one gang two way	3	No.		
	c) two gang one way	0	No.		
	d) two gang two way	2	No.		
	e) three gang two way	2	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9. CRI 80 LED diffused, heat-resistant Luminaire as TRONIC LED Batten or approved equivalent	10	No.		
	b) Ditto as above but twin	5	No.		
	c) LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	2	No.		
	d) 150mm diameter LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 50,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	15	No.		
	e) Decorative ceramic LED internal up and Down wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 50,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light/Gate light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
MRE/216	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) PHOTOCELL/ PIR SENSOR controlled LED Bulkhead with IP65, 50 W, pf ≥ 0.9 , 4000k, 4000lumens, 50,000 hours lifetime, at least 5 years Warranty complete with all necessary accessories as TRONIC or approved equivalent.	22	No.		
	j) PHOTOCELL/ PIR SENSOR controlled LED Floodlight with IP65, 50 W, pf ≥ 0.9 , 4000k, 4000lumens, 50,000 hours lifetime, at least 5 years Warranty complete with the PHOTOCELL/PIR SENSOR and all necessary accessories as TRONIC or approved equivalent.	5	No.		
	k) 600 x 600 recessed LED Panel to client's approval	0	No.		
	l) Decorative Crystal silver Track Lights to clients approval	20	No.		
	m) Decorative hanging pendant and chandeliers to client's approval	6	No.		
	n) Mirror Light to client's approval	2	No.		
	o) Emergency exit light to approval	9	No.		
	p) Emergency light fitting with 3 hours operation	10	No.		
	q) LED strip complete with diffuser to client's approval	10	LM		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	15	No.		
1.05	13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single.	1	No.		
	b) twin.	20	No.		
	c) twin, Splash proof with neon Indicator	25	No.		
	d) twin, with 2 USB ports with neon Indicator	4	No.		
1.06	Isolator equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	5	No.		
1.07	20 Amps Single phase isolator with industrial socket as SCHNEIDER or approved equivalent for items above	5	No.		
1.08	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	2	No.		
1.09	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	2	No.		
MRE/217	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
1.10	Cooker point comprising of 3x6mm ² PVC Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	1	No		
1.11	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	1	No		
1.12	Cooker connection unit for item above.	1	No.		
1.13	16A Socket outlet points wired radial from DB comprising of 3x4 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits for the bakery Kitchen equipment	2	No.		
1.14	16A 3 Pin Watertight, IP 44 Industrial socket outlets	2	No.		
1.15	IP65 rated, 20A SPN Isolator switch for item above as KATKO or approved equivalent	2	No.		
1.16	16A Socket outlet points wired radial from DB comprising of 5x6.0 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.17	16A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.18	IP65 rated, 20A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
1.19	5x 10 mm sq single core cables for kitchen equipment	20	LM		
1.20	32A Socket outlet points wired radial from DB comprising of 5x10.0 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.21	32A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.22	IP65 rated, 32A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
	TRUNKING AND CABLE TRAY				
1.23	200x50mm two compartment Powder coated, anti-rusting Trunking as per details shown complete with covers, bends, face plates for both power sockets and data plates and all fixing accessories. The Trunking to angular section fixed at skirting level. Allow for colour change to client's detail.	30	LM		
1.24	300mm x 50mm steel Cable tray complete with covers, bends, joints, mounting brackets and all other necessary accessories and parts. To be installed in Electrical Ducts	50	LM		
MRE/218	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE ALARM SYSTEM				
	(to be compliant with relevant parts of EN 54 standard)				
1.25	Fire alarm points wired in 3x2.5mm ² Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	30	No		
1.26	Intelligent addressable LED flushing sounder beacon complete with all necessary accessories as EATON or approved equivalent.	6	No		
1.27	Intelligent addressable Smoke detectors/Heat detector complete with all necessary accessories as EATON or approved equivalent.	30	No		
1.28	Intelligent addressable Fire break glass Manual call point unit as EATON or approved equivalent complete with all necessary accessories	6	No		
1.29	2 loop, Intelligent addressable Fire alarm control panel complete with Battery and charger as EATON or approved equivalent	1	No		
	PROVISIONS				
1.30	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	20	No.		
1.31	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	10	No.		
1.32	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	10	No.		
1.33	TV points comprising Draw wire in concealed PVC conduits	2	No.		
1.34	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
1.35	65-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	2	No		
1.36	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	50	No.		
1.37	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	40	No.		
1.38	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	24	No.		
1.39	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	10	No.		
MRE/219	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
1.40	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	2	No.		
1.41	12 ways TPN, SURFACE mounted Distribution Board complete with 125A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	5	No.		
1.42	MCB's for item above				
	(a) 10A, SP	40	No.		
	(b) 20A, SP	80	No.		
	(c) 30A, SP	40	No.		
	(d) 30A TP	20	No.		
	(e) Blanking plates	40	No.		
1.43	Airtight FLOORBOX/PEDESTAL complete with wiring/cabling and fittings for 4No twin sockets, 4No data & telephone dual plate and 1 No HDMI 1, No VGA connectors complete with all accessories.	4	No.		
	<u>POWER DISTRIBUTION CABLES</u>				
1.44	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Distribution Board to Consumer Unit (AVERAGE 25 m LONG)	10	LM		
1.45	5x 25mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Cable loop in Box to Distribution Boards (AVERAGE 15 m LONG)	20	LM		
1.46	4x 95mm ² PVC/SWA/PVC armored Copper cables in cable trench and concealed HG PVC conduits from meter board to Cable loop in Box	25	LM		
1.47	4 pole 200 A TPN adjustable MCCB complete with all accessories for the above cable	2	No.		
1.48	100mm diameter PVC duct with concrete surround and HATARI markers complete with all accessories.	25	LM		
1.49	600x600x600mm Manholes.	6	No.		
	<u>EARTHING</u>				
1.50	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	3	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	3	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	3	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	3	No.		
	e) 6mm sq. SC PVCI Copper cables.	10	LM		
MRE/220	SUB TOTAL C/F TO SUMMARY PAGE				

SCHEDULE NO. 2 ROOMS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTING POINTS</u>				
2.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two-way switching	11	No.		
	<u>SWITCHES</u>				
2.02	decorative zinc/silver/gold coated 10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	1	No.		
	b) one gang two way	2	No.		
	c) two gang one way	1	No.		
	d) two gang two way	1	No.		
	e) three gang two way	0	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	g) Dimmer	1	No.		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9, CRI 80 LED diffused, heat resistant Luminaire as TRONIC LED Batten or approved equivalent	0	No.		
	b) Ditto as above but twin	0	No.		
	c) DECORATIVE DIMMABLE LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	1	No.		
	d) 150mm diameter DECORATIVE LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	1	No.		
	e) Decorative ceramic LED internal up and down flexible/adjustable wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	1	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
MRE/221	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) Circular Bedside LED Reading Light 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	j) Decorative rechargeable, portable LED desk lamp/reading lamp 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	1	No.		
	k) Emergency exit light to approval	0	No.		
	l) Emergency light fitting with 3 hours operation	1	No.		
	m) LED strip complete with diffuser to client's approval	3	LM		
	n) DECORATIVE Mirror Light to client's approval	1	No.		
	n) DECORATIVE SHAVER UNIT to client's approval	1	No.		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
2.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	8	No.		
2.05	decorative zinc/silver/gold coated 13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single universal socket with 1 USB ports with neon Indicator	1	No.		
	b) twin.	1	No.		
	c) twin, Splash proof with neon Indicator	0	No.		
	d) twin, universal with 2 USB ports with neon Indicator	1	No.		
2.06	Shaver unit/Hair drier power point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.07	Shaver unit with Dual Voltage 240/110V to clients approval.	1	No.		
2.08	Hair drier unit to client's approval	1	No.		
2.09	Instant shower/extract fan/under sink heater/Air Condition/ radial equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.10	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	1	No.		
2.11	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	0	No.		
2.12	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	0	No.		
MRE/222	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.13	Cooker point comprising of 3x6mm ² PVICI Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	0	No		
2.14	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	0	No		
2.15	Cooker connection unit for item above.	0	No.		
2.16	DND-Do not Disturb Signage and Switch and Hotel Key Card switch point comprising of 3x1.5mm ² PVICI Copper cables together with appropriate signal cables drawn in concealed 20mm dia. HG PVC conduits from CU	1	No		
2.17	240V DND-Do not Disturb Signage and Switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.18	Hotel Key Card switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	1	No.		
2.19	Decorative RFID card door access system with Smart Lock Hotel Lock with advanced card technology, IP 54 or higher, ability of reading and writing to the guest and staff cards, with simple user-friendly professional lock management software, ability to access Audit trail records of at least 200 lock transactions, complete with all accessories, power supply and battery, the system should come with warning beeps in low battery power and as per the approval. The system should come with card programming kits to be stationed at the reception	1	No		
2.20	32-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	1	No		
	PROVISIONS				
2.21	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	1	No.		
2.22	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	1	No.		
2.23	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	1	No.		
2.24	TV points comprising Draw wire in concealed PVC conduits	1	No.		
2.25	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	1	No.		
2.26	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	0	No.		
2.27	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
MRE/223	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.28	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
2.29	Smart automatic Motorized curtain opener system for rails and rods complete with all components including remote control units.	0	No.		
2.30	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	1	No.		
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
2.31	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator, with CARD CONTROLLED SYSTEM as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
2.32	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	1	No.		
	(d) 45A SP	0	No.		
	(e) Blanking plates	2	No.		
	<u>SUB-MAIN POWER DISTRIBUTION</u>				
2.33	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from meter board to Consumer Unit	10	LM		
2.34	100mm diameter PVC duct with concrete surround complete with all accessories.	0	LM		
2.35	750x750x750mm Manholes.	0	No.		
	<u>EARTHING</u>				
2.36	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	0	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	0	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	0	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	0	No.		
	e) 6mm sq. SC PVCI Copper cables.	0	LM		
	SUB TOTAL FOR 1 No. ROOM				
	MULTIPLY BY NUMBER OF ROOMS			22	
MRE/224	SUB TOTAL FOR 22NO ROOMS C/F TO SUMMARY PAGE				

SCHEDULE NO. 3 LIGHTNING PROTECTION

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	100	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	6	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	50	LM		
3.04	Copper square tape clamp for making crossing tape joints	20	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with saddles	12	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	4	No.		
	b) 15 mm dia. Driving stud as FURSE Cat. No. ST100.	4	No.		
	c) Rod to tape clamp as FURSE.	4	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (Or a well-made 320mm x 320mm x 210 mm depth pit.)	4	No.		
	e) 25x3mm copper tape	20	LM		
MRE/225	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

SCHEDULE NO. 4 DATA AND VOICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	Horizontal cabling:				
4.01	Four pair CAT 6A cable as Siemons or approved equivalent drawn in the existing Trunking with both ends terminated at the patch panel and at RJ45 face plates at the network edge.	1000	LM		
4.02	Single CAT 6A RJ45 face plates as Siemons or approved equivalent complete with Modules.	30	No.		
4.03	CAT 6A 48-Port RJ45 Patch Panels as Siemons or approved equivalent	4	No.		
4.04	1U W/M series rack mount cable managers	8	No.		
4.05	CAT 6A 1m, 4-pair RJ45-RJ45 patch cords	30	No.		
4.06	CAT 6A 3m, 4-pair RJ45-RJ45 patch cords	30	No.		
4.07	10G SFP multimode transceiver modules plus termination kit	4	No.		
4.08	8-core fiber optic cable (50/125) indoor	20	LM		
4.09	Complete Fiber Enclosure Panel	1	No.		
4.1	Labeling of ports (both ends)	30	No.		
4.11	Network CAT 6A Cable Testing to industry standard and documentation of test results in 3No. Bounded Hard and 2No. Soft Copies in appropriate media.	30	No.		
	Data/ Voice EDGE Switch				
4.12	48 10/100/1000 PoE+ ports with 370W power budget, 4 X 10 Gigabit SFP+, Stackable Rack-mountable as ARUBA/CISCO/RUCKUS c/w all necessary parts or approved equivalent.	1	No.		
	Data/ Voice CORE Switch				
4.13	12 x 10 Gigabit SFP+, 2 x 10 Gigabit copper ports (combo with 2 x SFP+), 1 x GE management port, Rack- mountable as ARUBA/CISCO/RUCKUS or approved equivalent c/w all necessary accessories.	1	No.		
	Wireless Access Point (WAP)				
4.14	Wireless Access Point c/w Controller, Indoor, Internal Antena as ARUBA/CISCO/RUCKUS Access Point, internal antenna; ceiling mount, Wi-Fi 6; 2x2:2 MIMO or approved equivalent or better.	30	No.		
	IP Telephones				
4.15	Standard Phone: IP Phone, POE, 2x10/100/1000 Ethernet Ports, 2.7" 192x64-pixel graphical LCD, 6-line Keys, 15 (3 pages of 5 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 12 SIP Accounts, 5-way Conferencing, 2 Adjustable Angles, c/w UC License, c/w all necessary accessories as Yealink SIP- T42U or approved equivalent compatible with the IP-PBX.	30	No.		
	Telephone Operator Phone				
4.16	IP Phone, POE, 2x10/100/1000 Ethernet Ports, 4.3" 480 x 272-pixel color display, 10-line Keys, 27 (3 pages of 9 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 16 SIP Accounts, 10-way Conferencing, complete with UC License, c/w all necessary accessories as Yealink SIP- T46U or approved equivalent compatible with the IP-PBX.	1	No.		
	Network cabinet				
4.17	9U Rack wall mounted, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	4	No.		
4.18	42U Rack Floor Standing, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	1	No.		
MRE/226	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	IP-PBX				
4.19	IP-PBX of the following minimum capacity: supportive parts and accessories.: Base Users / Max Users 75/100 • Max Concurrent Calls: 30 • Max FXS Ports: 16 • Max FXO/BRI Ports: 16 • Max GSM/3G/4G Ports: 6 • Max E1/T1/J1 Ports: 2 • Ethernet Interfaces: 2 x (10/100/1000 Mbps) • Hard Disk: 1 SATA (Up to 2TB) • USB 1: (Up to 2TB) as Yeastar or approved equivalent or better c/w UC Licenses, all associated cards and accessories and accessories.	1	No.		
	Expansion Module				
4.2	Expansion Module for the Telephone Operator console as Yealink EXP43Expansion Module or approved equivalent.	1	No.		
	Headphone				
4.21	Wired Headphone compatible with the Telephone Operator console as Yealink YHS36 Mono QD RJ9 Wired Headset or approved equivalent.	2	No.		
	UPS				
4.22	Single Phase 240V, 10KVA UPS as APC Smart with multi o/p ports, USB and serial port c/w manual bypass and 15 mins run time.	1	No.		
	CCTV CAMERAS				
4.23	Network Dome Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 40m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2746G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	4	No.		
4.24	Network Bullet Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 60m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2646G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	8	No.		
4.25	4MP PTZ camera as Hikvision or approved equivalent	2	No.		
MRE/227	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CCTV Monitoring Screen to approval				
4.26	• Screen Size: 55-inch LED • Pixel Pitch 0.63 mm • Physical Seam 3.5 mm • Resolution 1920 × 1080@60 Hz • Brightness 700 cd/m² • Viewing Angle H&V 178° • Color Depth 8-bit, 16.7 M • Response Time 8 ms	1	No.		
4.27	Surveillance 10TB HDD as Seagate Hawk or approved equivalent	3	No		
	Network Keyboard (Joystick)				
4.28	• Decoding Format H.265 • Decoding Capability 4@1080p (FHD) • Decoding Format H.264, H.265, MPEG4 • Decoding Capability 4@1080p • Touch Screen type • Divide video wall into regions to manage video wall by region • Preview camera live image on network keyboard touchscreen	1	No.		
	ISDN & GSM CONNECTIVITY				
4.29	Allow for ISDN and GSM Connectivity Charges from ISP to be identified by the Client	1	Item		
	System Administration PC				
4.30	Desktop PC: HP 280 7th Gen, Intel Core i5, 1TB HDD, 8GB RAM, 20 Inch Screen, LED Backlit Monitor, DVD Super Multi, HDMI port, RJ45 port, VGA port as HP or approved equivalent c/w windows 10 OS or latest.	1	No.		
4.31	Train at least 10 No. KSG and SDPW-RWO Technical Officers on administration, operation and maintenance of all the installed systems.	1	Item		
4.32	Test and Commission the DATA, VOICE AND CCTV System to the satisfaction of the Project Engineer and Project Implementation Team.	1	Item		
4.33	Supply to the Project Engineer with Network Documentation entailing As- installed Drawings/Schematics, Cable Test Results, Installation, Operation & Maintenance Manuals for Active Devices in Bound Booklet 3 No. copies and in a Flash Disk 2 No. Copies.	1	Item		
MRE/228	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE EMERGENCY EVACUATION SYSTEM				
	(To be compliant with relevant parts of EN 54 standard)				
4.34	Speakers cable Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	25	LM		
4.35	Ceiling mounted Fire evacuation speaker, IP 65 outdoor, with the following minimum specifications and to approval: Diameter:213mm Thickness: 65mm Ceiling hole:170 mm Power:6-10W Voltage: 70/110V Frequency response : 100-16kHz Sensitivity : 90dB Loudest pressure level (1m)95dB Speaker:6.5inch	15	No		
4.36	DITTO but wall mounted	16	No		
4.37	350 W, 24VDC network Voice Evacuation Control Panel compatible with Fire alarm control panel to Engineers specifications and approval	1	No		
	Centralized Television system				
4.38	DSTV set with DISH, DECODER CABLING brackets Extra View plus 12 Months PREMIUM SUBSCRIPTION	1	No		
4.39	5x16 multi- switch for cable distribution	4	No.		
4.40	Satellite amplifier	2	No.		
4.41	TV points comprising Draw wire in concealed PVC conduits	2	No.		
4.42	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
4.43	Coaxial cable for TV works	100	LM		
	Network video recorder				
4.44	• IP video input: 64-ch • In/out BW: 576 /512 Mbps • 2xHDMI o/p: 4K@30Hz, • Decode format H.265, H.265+ • Max. Video resolution 32 MP, • Capability 1-ch@32 MP@30 fps) • Synchronous playback: 16-ch • 16 SATA of Up to 10 TB HDD • RAID 0, 1, 5, 6, 10 • Alarm input/output 16/8 • c/w One extension board: 4x10M/100M/1000M (1.25 Gbps SFP module) As Hikvision DS-96128NI-I16, c/w One Extension Board, 100TB Storage Capacity and all necessary accessories and as further specified or approved	1	no		
MRE/229	SUB TOTAL C/F TO SUMMARY PAGE				

MAIN SUMMARY		
ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Subtotal B/F from schedule 1: - OTHER SPACES	
B	Subtotal B/F from schedule 2: - ROOMS	
C	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
D	Subtotal B/F from schedule 4: - DATA AND VOICE	
E	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase and hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	50,000.00
F	Allow for four sets of 'As Installed Drawings'	
MRE/230	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

STAFF HOUSES TYPOLOGY 1 ELECTRICAL WORKS

SCHEDULE NO. 2 ROOMS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTING POINTS</u>				
2.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two-way switching	10	No.		
	<u>SWITCHES</u>				
2.02	decorative zinc/silver/gold coated 10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	1	No.		
	b) one gang two way	6	No.		
	c) two gang one way	1	No.		
	d) two gang two way	1	No.		
	e) three gang two way	0	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	g) Dimmer	0	No.		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9, CRI 80 LED diffused, heat-resistant Luminaire as TRONIC LED Batten or approved equivalent	1	No.		
	b) Ditto as above but twin	0	No.		
	c) DECORATIVE DIMMABLE LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	3	No.		
	d) 150mm diameter DECORATIVE LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	2	No.		
	e) Decorative ceramic LED internal up and down flexible/adjustable wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	2	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
SHEI/232	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) Circular Bedside LED Reading Light 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	0	No.		
	j) Decorative rechargeable, portable LED desk lamp/reading lamp 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	0	No.		
	k) Emergency exit light to approval	1	No.		
	l) Emergency light fitting with 3 hours operation	1	No.		
	m) LED strip complete with diffuser to client's approval	0	LM		
	n) DECORATIVE Mirror Light to client's approval	1	No.		
	n) DECORATIVE SHAVER UNIT to client's approval	0	No.		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
2.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	8	No.		
2.05	decorative zinc/silver/gold coated 13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single universal socket with 1 USB ports with neon Indicator	1	No.		
	b) twin.	5	No.		
	c) twin, Splash proof with neon Indicator	0	No.		
	d) twin, universal with 2 USB ports with neon Indicator	0	No.		
2.06	Shaver unit/Hair drier power point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.07	Shaver unit with Dual Voltage 240/110V to client's approval.	1	No.		
2.08	Hair drier unit to client's approval	1	No.		
2.09	Instant shower/extract fan/under sink heater/Air Condition/ radial equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.10	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	1	No.		
2.11	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	0	No.		
2.12	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	0	No.		
SHE1/233	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.13	Cooker point comprising of 3x6mm ² PVICI Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	1	No		
2.14	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	1	No		
2.15	Cooker connection unit for item above.	1	No.		
2.16	DND-Do not Disturb Signage and Switch and Hotel Key Card switch point comprising of 3x1.5mm ² PVICI Copper cables together with appropriate signal cables drawn in concealed 20mm dia. HG PVC conduits from CU	0	No		
2.17	240V DND-Do not Disturb Signage and Switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	0	No.		
2.18	Hotel Key Card switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	0	No.		
2.19	Decorative RFID card door access system with Smart Lock Hotel Lock with advanced card technology, IP 54 or higher, ability of reading and writing to the guest and staff cards, with simple user-friendly professional lock management software, ability to access Audit trail records of at least 200 lock transactions, complete with all accessories, power supply and battery, the system should come with warning beeps in low battery power and as per the approval. The system should come with card programming kits to be stationed at the reception	0	No		
2.20	32-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	0	No		
	PROVISIONS				
2.21	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	1	No.		
2.22	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	1	No.		
2.23	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	1	No.		
2.24	TV points comprising Draw wire in concealed PVC conduits	1	No.		
2.25	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	1	No.		
2.26	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	0	No.		
2.27	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
SHEI/234	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.28	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
2.29	Smart automatic Motorized curtain opener system for rails and rods complete with all components including remote control units.	0	No.		
2.30	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	0	No.		
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
2.31	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator, with CARD CONTROLLED SYSTEM as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
2.32	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	1	No.		
	(d) 45A SP	0	No.		
	(e) Blanking plates	2	No.		
	<u>SUB-MAIN POWER DISTRIBUTION</u>				
2.33	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from meter board to Consumer Unit	10	LM		
2.34	100mm diameter PVC duct with concrete surround complete with all accessories.	0	LM		
2.35	750x750x750mm Manholes.	0	No.		
	<u>EARTHING</u>				
2.36	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	0	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	0	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	0	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	0	No.		
	e) 6mm sq. SC PVCI Copper cables.	0	LM		
	SUB TOTAL FOR 1 No. ROOM				
	MULTIPLY BY NO. OF UNITS			5	
SHE1/235	SUB TOTAL FOR 5UNITS C/F TO SUMMARY PAGE				

SCHEDULE NO. 3 LIGHTNING PROTECTION

Item	Description	Qty	Unit		
	Supply, install, test and commission the following: -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	10	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	2	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	10	LM		
3.04	Copper square tape clamp for making crossing tape joints	10	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with sandles	4	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	1	No.		
	b) 15 mm dia. Driving stud as FURSE Cat. No. ST100.	1	No.		
	c) Rod to tape clamp as FURSE.	1	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (Or a well-made 320mm x 320mm x 210 mm depth pit.)	1	No.		
	e) 25x3mm copper tape	5	LM		
SHEI/236	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

<u>MAIN SUMMARY</u>		
ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Subtotal B/F from schedule 2: - ROOMS	
B	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
E	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase and hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	50,000.00
F	Allow for four sets of 'As Installed Drawings'	
SHE1/237	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

STAFF HOUSES TYPOLOGY 2 ELECTRICAL WORKS

SCHEDULE NO. 2 ROOMS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTING POINTS</u>				
2.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two-way switching	20	No.		
	<u>SWITCHES</u>				
2.02	decorative zinc/silver/gold coated 10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	1	No.		
	b) one gang two way	6	No.		
	c) two gang one way	1	No.		
	d) two gang two way	1	No.		
	e) three gang two way	0	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	g) Dimmer	0	No.		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9. CRI 80 LED diffused, heat resistant Luminaire as TRONIC LED Batten or approved equivalent	1	No.		
	b) Ditto as above but twin	0	No.		
	c) DECORATIVE DIMMABLE LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	7	No.		
	d) 150mm diameter DECORATIVE LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	3	No.		
	e) Decorative ceramic LED internal up and down flexible/adjustable wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	6	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
SHE2/239	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) Circular Bedside LED Reading Light 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	0	No.		
	j) Decorative rechargeable, portable LED desk lamp/reading lamp 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	0	No.		
	k) Emergency exit light to approval	1	No.		
	l) Emergency light fitting with 3 hours operation	1	No.		
	m) LED strip complete with diffuser to client's approval	0	LM		
	n) DECORATIVE Mirror Light to client's approval	1	No.		
	n) DECORATIVE SHAVER UNIT to client's approval	0	No.		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
2.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	16	No.		
2.05	decorative zinc/silver/gold coated 13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single universal socket with 1 USB ports with neon Indicator	1	No.		
	b) twin.	15	No.		
	c) twin, Splash proof with neon Indicator	0	No.		
	d) twin, universal with 2 USB ports with neon Indicator	0	No.		
2.06	Shaver unit/Hair drier power point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.07	Shaver unit with Dual Voltage 240/110V to clients approval.	1	No.		
2.08	Hair drier unit to client's approval	1	No.		
2.09	Instant shower/extract fan/under sink heater/Air Condition/ radial equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.10	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	1	No.		
2.11	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	0	No.		
2.12	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	0	No.		
SHE2/240	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.13	Cooker point comprising of 3x6mm ² PPCI Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	1	No		
2.14	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	1	No		
2.15	Cooker connection unit for item above.	1	No.		
2.16	DND-Do not Disturb Signage and Switch and Hotel Key Card switch point comprising of 3x1.5mm ² PPCI Copper cables together with appropriate signal cables drawn in concealed 20mm dia. HG PVC conduits from CU	0	No		
2.17	240V DND-Do not Disturb Signage and Switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	0	No.		
2.18	Hotel Key Card switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	0	No.		
2.19	Decorative RFID card door access system with Smart Lock Hotel Lock with advanced card technology, IP 54 or higher, ability of reading and writing to the guest and staff cards, with simple user-friendly professional lock management software, ability to access Audit trail records of at least 200 lock transactions, complete with all accessories, power supply and battery, the system should come with warning beeps in low battery power and as per the approval. The system should come with card programming kits to be stationed at the reception	0	No		
2.20	32-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	0	No		
	PROVISIONS				
2.21	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	1	No.		
2.22	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	1	No.		
2.23	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	1	No.		
2.24	TV points comprising Draw wire in concealed PVC conduits	1	No.		
2.25	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	1	No.		
2.26	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	0	No.		
2.27	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
SHE2/241	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.28	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
2.29	Smart automatic Motorized curtain opener system for rails and rods complete with all components including remote control units.	0	No.		
2.30	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	0	No.		
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
2.31	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator, with CARD CONTROLLED SYSTEM as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
2.32	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	1	No.		
	(d) 45A SP	0	No.		
	(e) Blanking plates	2	No.		
	<u>SUB-MAIN POWER DISTRIBUTION</u>				
2.33	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from meter board to Consumer Unit	10	LM		
2.34	100mm diameter PVC duct with concrete surround complete with all accessories.	0	LM		
2.35	750x750x750mm Manholes.	0	No.		
	<u>EARTHING</u>				
2.36	Earthing, for the building comprising of the following and any other necessary accessories; -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	1	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	1	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	1	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	1	No.		
	e) 6mm sq. SC PVCI Copper cables.	20	LM		
	SUB TOTAL FOR 1 No. UNIT				
	MULTIPLY BY NO. OF UNITS			5	
SHE2/242	SUB TOTAL FOR 5 UNITS C/F TO SUMMARY PAGE				

SCHEDULE NO. 3 LIGHTNING PROTECTION

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	10	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	2	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	10	LM		
3.04	Copper square tape clamp for making crossing tape joints	10	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with saddles	4	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	1	No.		
	b) 15 mm dia. Driving stud as FURSE Cat. No. ST100.	1	No.		
	c) Rod to tape clamp as FURSE.	1	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (or a well-made 320mm x 320mm x 210 mm depth pit.)	1	No.		
	e) 25x3mm copper tape	5	LM		
SHE2/243	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

<u>MAIN SUMMARY</u>		
ITEM	DESCRIPTION	AMOUNT(KSHS)
B	Subtotal B/F from schedule 2: - ROOMS	
C	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
E	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase and hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	
F	Allow for four sets of 'As Installed Drawings'	
SHE2/244	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

STAFF HOUSES TYPOLOGY 3 ELECTRICAL WORKS

SCHEDULE NO. 2 ROOMS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTING POINTS</u>				
2.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two-way switching	25	No.		
	<u>SWITCHES</u>				
2.02	decorative zinc/silver/gold coated 10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	1	No.		
	b) one gang two way	6	No.		
	c) two gang one way	1	No.		
	d) two gang two way	1	No.		
	e) three gang two way	0	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	g) Dimmer	0	No.		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9. CRI 80 LED diffused, heat resistant Luminaire as TRONIC LED Batten or approved equivalent	4	No.		
	b) Ditto as above but twin	0	No.		
	c) DECORATIVE DIMMABLE LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	7	No.		
	d) 150mm diameter DECORATIVE LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	4	No.		
	e) Decorative ceramic LED internal up and down flexible/adjustable wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	6	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
SHE3/246	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) Circular Bedside LED Reading Light 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	0	No.		
	j) Decorative rechargeable, portable LED desk lamp/reading lamp 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	0	No.		
	k) Emergency exit light to approval	1	No.		
	l) Emergency light fitting with 3 hours operation	1	No.		
	m) LED strip complete with diffuser to clients approval	0	LM		
	n) DECORATIVE Mirror Light to clients approval	1	No.		
	n) DECORATIVE SHAVER UNIT to clients approval	0	No.		
	SOCKET OUTLETS AND OTHER POWER POINTS				
2.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	16	No.		
2.05	decorative zinc/silver/gold coated 13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single universal socket with 1 USB ports with neon Indicator	1	No.		
	b) twin.	15	No.		
	c) twin, Splash proof with neon Indicator	0	No.		
	d) twin, universal with 2 USB ports with neon Indicator	0	No.		
2.06	Shaver unit/Hair drier power point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.07	Shaver unit with Dual Voltage 240/110V to clients approval.	1	No.		
2.08	Hair drier unit to client's approval	1	No.		
2.09	Instant shower/extract fan/under sink heater/Air Condition/ radial equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.10	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	1	No.		
2.11	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	0	No.		
2.12	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	0	No.		
SHE3/247	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.13	Cooker point comprising of 3x6mm ² PVIC Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	1	No		
2.14	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	1	No		
2.15	Cooker connection unit for item above.	1	No.		
2.16	DND-Do not Disturb Signage and Switch and Hotel Key Card switch point comprising of 3x1.5mm ² PVIC Copper cables together with appropriate signal cables drawn in concealed 20mm dia. HG PVC conduits from CU	0	No		
2.17	240V DND-Do not Disturb Signage and Switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	0	No.		
2.18	Hotel Key Card switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	0	No.		
2.19	Decorative RFID card door access system with Smart Lock Hotel Lock with advanced card technology, IP 54 or higher, ability of reading and writing to the guest and staff cards, with simple user-friendly professional lock management software, ability to access Audit trail records of at least 200 lock transactions, complete with all accessories, power supply and battery, the system should come with warning beeps in low battery power and as per the approval. The system should come with card programming kits to be stationed at the reception	0	No		
2.20	32-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	0	No		
	PROVISIONS				
2.21	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	1	No.		
2.22	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	1	No.		
2.23	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	1	No.		
2.24	TV points comprising Draw wire in concealed PVC conduits	1	No.		
2.25	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	1	No.		
2.26	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	0	No.		
2.27	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
SHE3/248	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.28	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
2.29	Smart automatic Motorized curtain opener system for rails and rods complete with all components including remote control units.	0	No.		
2.30	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	0	No.		
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
2.31	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator, with CARD CONTROLLED SYSTEM as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
2.32	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	1	No.		
	(d) 45A SP	0	No.		
	(e) Blanking plates	2	No.		
	<u>SUB-MAIN POWER DISTRIBUTION</u>				
2.33	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from meter board to Consumer Unit	10	LM		
2.34	100mm diameter PVC duct with concrete surround complete with all accessories.	0	LM		
2.35	750x750x750mm Manholes.	0	No.		
	<u>EARTHING</u>				
2.36	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	1	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	1	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	1	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	1	No.		
	e) 6mm sq. SC PVCI Copper cables.	20	LM		
	SUB TOTAL FOR 1 No. UNIT				
	MULTIPLY BY NO OF UNITS			6	
SHE3/249	SUB TOTAL FOR 6 No UNITS C/F TO SUMMARY PAGE				

SCHEDULE NO. 3 LIGHTNING PROTECTION

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	10	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	2	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	10	LM		
3.04	Copper square tape clamp for making crossing tape joints	10	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with sandles	4	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	1	No.		
	b) 15 mm dia. Driving stud as FURSE Cat. No. ST100.	1	No.		
	c) Rod to tape clamp as FURSE.	1	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (or a well-made 320mm x 320mm x 210 mm depth pit.)	1	No.		
	e) 25x3mm copper tape	5	LM		
SHE3/250	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

<u>MAIN SUMMARY</u>		
ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Subtotal B/F from schedule 2: - ROOMS	
B	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
C	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase and hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	
D	Allow for four sets of 'As Installed Drawings'	
SHE3/251	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

STAFF HOUSES TYPOLOGY 4 ELECTRICAL WORKS

SCHEDULE NO. 2 ROOMS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	<u>LIGHTING POINTS</u>				
2.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two-way switching	15	No.		
	<u>SWITCHES</u>				
2.02	decorative zinc/silver/gold coated 10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	1	No.		
	b) one gang two way	6	No.		
	c) two gang one way	1	No.		
	d) two gang two way	1	No.		
	e) three gang two way	0	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	g) Dimmer	0	No.		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9, CRI 80 LED diffused, heat resistant Luminaire as TRONIC LED Batten or approved equivalent	4	No.		
	b) Ditto as above but twin	0	No.		
	c) DECORATIVE DIMMABLE LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	2	No.		
	d) 150mm diameter DECORATIVE LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	2	No.		
	e) Decorative ceramic LED internal up and down flexible/adjustable wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 20,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	3	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
SHE4/253	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) Circular Bedside LED Reading Light 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	0	No.		
	j) Decorative rechargeable, portable LED desk lamp/reading lamp 10 W, pf ≥ 0.9 , 4000k, 1000lumens, 20,000 hours lifetime, at least 2 years Warranty complete with the antiglare mechanisms, and all necessary accessories as TRONIC or approved equivalent.	0	No.		
	k) Emergency exit light to approval	1	No.		
	l) Emergency light fitting with 3 hours operation	1	No.		
	m) LED strip complete with diffuser to client's approval	0	LM		
	n) DECORATIVE Mirror Light to client's approval	1	No.		
	n) DECORATIVE SHAVER UNIT to client's approval	0	No.		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
2.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVCI copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	8	No.		
2.05	decorative zinc/silver/gold coated 13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single universal socket with 1 USB ports with neon Indicator	1	No.		
	b) twin.	7	No.		
	c) twin, Splash proof with neon Indicator	0	No.		
	d) twin, universal with 2 USB ports with neon Indicator	0	No.		
2.06	Shaver unit/Hair drier power point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.07	Shaver unit with Dual Voltage 240/110V to clients approval.	1	No.		
2.08	Hair drier unit to client's approval	1	No.		
2.09	Instant shower/extract fan/under sink heater/Air Condition/ radial equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	1	No.		
2.10	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	1	No.		
2.11	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	0	No.		
2.12	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	0	No.		
SHE4/254	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.13	Cooker point comprising of 3x6mm ² PPCI Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	1	No		
2.14	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	1	No		
2.15	Cooker connection unit for item above.	1	No.		
2.16	DND-Do not Disturb Signage and Switch and Hotel Key Card switch point comprising of 3x1.5mm ² PPCI Copper cables together with appropriate signal cables drawn in concealed 20mm dia. HG PVC conduits from CU	0	No		
2.17	240V DND-Do not Disturb Signage and Switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	0	No.		
2.18	Hotel Key Card switch complete with an integral 240V/12V transformer as SCHNEIDER or approved equivalent	0	No.		
2.19	Decorative RFID card door access system with Smart Lock Hotel Lock with advanced card technology, IP 54 or higher, ability of reading and writing to the guest and staff cards, with simple user-friendly professional lock management software, ability to access Audit trail records of at least 200 lock transactions, complete with all accessories, power supply and battery, the system should come with warning beeps in low battery power and as per the approval. The system should come with card programming kits to be stationed at the reception	0	No		
2.20	32-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	0	No		
	PROVISIONS				
2.21	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	1	No.		
2.22	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	1	No.		
2.23	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	1	No.		
2.24	TV points comprising Draw wire in concealed PVC conduits	1	No.		
2.25	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	1	No.		
2.26	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	0	No.		
2.27	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
SHE4/255	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 ROOMS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
2.28	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	0	No.		
2.29	Smart automatic Motorized curtain opener system for rails and rods complete with all components including remote control units.	0	No.		
2.30	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	0	No.		
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
2.31	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator, with CARD CONTROLLED SYSTEM as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
2.32	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	1	No.		
	(d) 45A SP	0	No.		
	(e) Blanking plates	2	No.		
	<u>SUB-MAIN POWER DISTRIBUTION</u>				
2.33	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from meter board to Consumer Unit	10	LM		
2.34	100mm diameter PVC duct with concrete surround complete with all accessories.	0	LM		
2.35	750x750x750mm Manholes.	0	No.		
	<u>EARTHING</u>				
2.36	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	1	No.		
	b) 12.5 mm dia. Driving stud as FURSE cat. No. ST100.	1	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	1	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	1	No.		
	e) 6mm sq. SC PVCI Copper cables.	20	LM		
	SUB TOTAL FOR 1 No. UNIT				
	MULTIPLY BY NO. OF UNITS				
SHE4/256	SUB TOTAL FOR 6 NO UNITS C/F TO SUMMARY PAGE				

SCHEDULE NO. 3 LIGHTNING PROTECTION

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	10	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	2	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	10	LM		
3.04	Copper square tape clamp for making crossing tape joints	10	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with saddles	4	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	1	No.		
	b) 15 mm dia. Driving stud as FURSE Cat. No. ST100.	1	No.		
	c) Rod to tape clamp as FURSE.	1	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (or a well-made 320mm x 320mm x 210 mm depth pit.)	1	No.		
	e) 25x3mm copper tape	5	LM		
SHE4/257	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

<u>MAIN SUMMARY</u>		
ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Subtotal B/F from schedule 2: - ROOMS	
B	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
E	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase and hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	
F	Allow for four sets of 'As Installed Drawings'	
SHE4/258	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

KITCHEN AND LAUNDRY ELECTRICAL WORKS

SCHEDULE NO. 1 -OTHER SPACES

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTING POINTS</u>				
1.01	Lighting points wired in 1.5 mm ² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for: -				
	a) one way and two switching	60	No.		
	<u>SWITCHES</u>				
1.02	10Amps, switch plate as TRONIC or approved equivalent as				
	a) one gang one way	5	No.		
	b) one gang two way	3	No.		
	c) two gang one way	0	No.		
	d) two gang two way	2	No.		
	e) three gang two way	2	No.		
	f) three gang one way	0	No.		
	g) Intermediate	0	No.		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with appropriate lamps of specified wattage and appropriate color rendering as follows: -				
	a) 1200mm, 2000 lm, Single 20W, 4000K, at least 50,000 life hours, pf ≥0.9, CRI 80 LED diffused, heat-resistant Luminaire as TRONIC LED Batten or approved equivalent	5	No.		
	b) Ditto as above but twin	37	No.		
	c) LED ceiling light 6" surface mounted 18W, IP44 with warm white output as TRONIC or approved equivalent.	13	No.		
	d) 150mm diameter LED Downlight luminaire with 900 lumens, 4000K, 10W, pf ≥0.9, at least 50,000 life hours, IP 54, water resistant, with opal diffuser as TRONIC or approved Equivalent.	6	No.		
	e) Decorative ceramic LED internal up and Down wall light luminaire with 1000 lumens, 4000K, 10W, pf ≥0.9, at least 50,000 life hours, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	f) 225mm diameter LED Downlight luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
	g) External LED up and Down wall light/Gate light luminaire with 3000 lumens, 4000K, 30W, pf ≥0.9, at least 50,000 life hours, IP 65 waterproof, complete with all necessary accessories as TRONIC or approved Equivalent.	0	No.		
	h) Mini floor/Staircase/Bick/Terrace recessed splashproof night light, IP 54 PIR SENSOR controlled LED luminaire with 2000 lumens, 4000K, 13W, pf ≥0.9, at least 50,000 life hours, as TRONIC or approved Equivalent.	0	No.		
KLE/260	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 -OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	i) PHOTOCELL/ PIR SENSOR controlled LED Bulkhead with IP65, 50 W, pf ≥ 0.9 , 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with all necessary accessories as TRONIC or approved equivalent.	25	No.		
	j) PHOTOCELL/ PIR SENSOR controlled LED Floodlight with IP65, 50 W, pf ≥ 0.9 , 4000k, 4000lumens,50,000 hours lifetime, at least 5 years Warranty complete with the PHOTOCELL/PIR SENSOR and all necessary accessories as TRONIC or approved equivalent.	5	No.		
	k) 600 x 600 recessed LED Panel to client's approval	10	No.		
	l) Decorative Crystal silver Track Lights to clients approval	20	No.		
	m) Decorative hanging pendant and chandeliers to client's approval	6	No.		
	n) Mirror Light to client's approval	2	No.		
	o) Emergency exit light to approval	9	No.		
	p) Emergency light fitting with 3 hours operation	10	No.		
	q) LED strip complete with diffuser to client's approval	10	LM		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and steel Trunking.	50	No.		
1.05	13 Amps. Molded plate switched socket outlet with neon indicator as SCHNEIDER or approved equivalent				
	a) single.	1	No.		
	b) twin.	20	No.		
	c) twin, Splash proof with neon Indicator	25	No.		
	d) twin, with 2 USB ports with neon Indicator	4	No.		
1.06	Isolator equipment power point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	10	No.		
1.07	20 Amps Sigle phase isolator with industrial socket as SCHNEIDER or approved equivalent for items above	10	No.		
1.08	Ground level booster pump point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	2	No.		
1.09	20 Amps double pole switches with neon indicator as SCHNEIDER or approved equivalent for items above	2	No.		
KLE/261	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 -OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
1.10	Cooker point comprising of 3x6mm ² P.V.C.I Copper cables drawn in concealed 25mm dia. HG PVC conduits from CU	5	No		
1.11	Cooker control unit complete with 13 Amps. Switched socket outlet as SCHNEIDER or approved equivalent.	5	No		
1.12	Cooker connection unit for item above.	5	No.		
1.13	16A Socket outlet points wired radial from DB comprising of 3x4 mm sq. single core P.V.C.I copper cables drawn in concealed 25mm HG PVC conduits for the bakery Kitchen equipment	5	No.		
1.14	16A 3 Pin Watertight, IP 44 Industrial socket outlets	5	No.		
1.15	IP65 rated, 20A SPN Isolator switch for item above as KATKO or approved equivalent	5	No.		
1.16	16A Socket outlet points wired radial from DB comprising of 5x6.0 mm sq. single core P.V.C.I copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	3	No.		
1.17	16A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	3	No.		
1.18	IP65 rated, 20A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	3	No.		
1.19	5x 10 mm sq single core cables for kitchen equipment	50	LM		
1.20	32A Socket outlet points wired radial from DB comprising of 5x10.0 mm sq. single core P.V.C.I copper cables drawn in concealed 25mm HG PVC conduits for the Kitchen three phase equipment	2	No.		
1.21	32A 5 Pin Watertight Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	2	No.		
1.22	IP65 rated, 32A TPN Isolator switch for item above as SCHNEIDER or approved equivalent	2	No.		
	<u>TRUNKING AND CABLE TRAY</u>				
1.23	200x50mm two compartment Powder coated, anti-rusting Trunking as per details shown complete with covers, bends, face plates for both power sockets and data plates and all fixing accessories. The Trunking to angular section fixed at skirting level. Allow for colour change to client's detail.	30	LM		
1.24	300mm x 50mm steel Cable tray complete with covers, bends, joints, mounting brackets and all other necessary accessories and parts. To be installed in Electrical Ducts	50	LM		
KLE/262	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 -OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE ALARM SYSTEM				
	(to be compliant with relevant parts of EN 54 standard)				
1.25	Fire alarm points wired in 3x2.5mm ² Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	30	No		
1.26	Intelligent addressable LED flushing sounder beacon complete with all necessary accessories as EATON or approved equivalent.	6	No		
1.27	Intelligent addressable Smoke detectors/Heat detector complete with all necessary accessories as EATON or approved equivalent.	40	No		
1.28	Intelligent addressable Fire break glass Manual call point unit as EATON or approved equivalent complete with all necessary accessories	6	No		
1.29	2 loop, Intelligent addressable Fire alarm control panel complete with Battery and charger as EATON or approved equivalent	1	No		
	PROVISIONS				
1.30	16 SWG, (300 x 300 x 100) mm ³ galvanized steel draw box for telephone, data works and TV works.	20	No.		
1.31	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	10	No.		
1.32	RJ45, Telephone/Data Molded plate as SCHNEIDER or approved equivalent.				
	a) Twin.	10	No.		
1.33	TV points comprising Draw wire in concealed PVC conduits	2	No.		
1.34	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
1.35	65-inch QLED SMART television set complete with mounting kits and at least 1 year warranty as Samsung, LG or approved equivalent	2	No		
1.36	CCTV points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from CCTV control point)	50	No.		
1.37	Audio points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	40	No.		
1.38	Motorized curtains control points comprising of 25 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling (approximate average length of 10m per point from control point)	24	No.		
1.39	Access control points comprising of 20 mm diameter conduit and 1.5 mm ² single core draw wire but excluding cabling	10	No.		
KLE/263	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 -OTHER SPACES CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
1.40	6 ways SPN, flush mounted Consumer Unit complete with 100A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	2	No.		
1.41	12 ways TPN, SURFACE mounted Distribution Board complete with 125A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	5	No.		
1.42	MCB's for item above				
	(a) 10A, SP	40	No.		
	(b) 20A, SP	80	No.		
	(c) 30A, SP	40	No.		
	(d) 30A TP	20	No.		
	(e) Blanking plates	40	No.		
1.43	Airtight FLOORBOX/PEDESTAL complete with wiring/cabling and fittings for 4No twin sockets, 4No data & telephone dual plate and 1 No HDMI 1, No VGA connectors complete with all accessories.	4	No.		
	<u>POWER DISTRIBUTION CABLES</u>				
1.44	3x 10mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Distribution Board to Consumer Unit (AVERAGE 25 m LONG)	10	LM		
1.45	5x 25mm ² single core Copper cables in cable trench and concealed HG PVC conduits from Cable loop in Box to Distribution Boards (AVERAGE 15 m LONG)	20	LM		
1.46	4x 95mm ² PVC/SWA/PVC armored Copper cables in cable trench and concealed HG PVC conduits from meter board to Cable loop in Box	25	LM		
1.47	4 pole 200 A TPN adjustable MCCB complete with all accessories for the above cable	2	No.		
1.48	100mm diameter PVC duct with concrete surround and HATARI markers complete with all accessories.	25	LM		
1.49	600x600x600mm Manholes.	6	No.		
	<u>EARTHING</u>				
1.50	Earthing, for the building comprising of the following and any other necessary accessories: -				
	a) 12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	3	No.		
	b) 12.5 mm dia. Driving stud as FURSE Cat. No. ST100.	3	No.		
	c) Rod to cable clamp as FURSE cat. No. CR510.	3	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005 (or a well-made 320mm x 320mm x 210 mm depth pit)	3	No.		
	e) 6mm sq. SC PVCI Copper cables.	10	LM		
KLE/264	SUB TOTAL C/F TO SUMMARY PAGE				

SCHEDULE NO. 3 -LIGHTNING PROTECTION

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	<u>LIGHTNING PROTECTION</u>				
	<u>AIR TERMINATION</u>				
3.01	25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	40	LM		
3.02	Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE	6	No.		
	<u>DOWNWARD CONDUCTOR</u>				
3.03	Downward conductor comprising 25mm x 3 mm thick bare copper tape as FURSE	50	LM		
3.04	Copper square tape clamp for making crossing tape joints	20	No.		
3.05	Steel conduits 32mm diam. for securing the down conductors complete with sandles	12	LM		
3.06	Test clamp as FURSE	2	No.		
	<u>EARTHING.</u>				
3.07	Earthing comprising of the following and any other necessary accessories: -				
	a) 15 mm x 1800 mm earth rod as FURSE cat. No. RB 105.	4	No.		
	b) 15 mm dia. Driving stud as FURSE Cat. No. ST100.	4	No.		
	c) Rod to tape clamp as FURSE.	4	No.		
	d) Concrete inspection pit as FURSE cat. No. PT005. (or a well-made 320mm x 320mm x 210 mm depth pit.)	4	No.		
	e) 25x3mm copper tape	20	LM		
KLE/265	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

SCHEDULE NO. 4 DATA AND VOICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	Horizontal cabling:				
4.01	Four pair CAT 6A cable as Siemons or approved equivalent drawn in the existing Trunking with both ends terminated at the patch panel and at RJ45 face plates at the network edge.	1000	LM		
4.02	Single CAT 6A RJ45 face plates as Siemons or approved equivalent complete with Modules.	30	No.		
4.03	CAT 6A 48-Port RJ45 Patch Panels as Siemons or approved equivalent	4	No.		
4.04	1U W/M series rack mount cable managers	8	No.		
4.05	CAT 6A 1m, 4-pair RJ45-RJ45 patch cords	30	No.		
4.06	CAT 6A 3m, 4-pair RJ45-RJ45 patch cords	30	No.		
4.07	10G SFP multimode transceiver modules plus termination kit	4	No.		
4.08	8-core fiber optic cable (50/125) indoor	20	LM		
4.09	Complete Fiber Enclosure Panel	1	No.		
4.1	Labeling of ports (both ends)	30	No.		
4.11	Network CAT 6A Cable Testing to industry standard and documentation of test results in 3No. Bounded Hard and 2No. Soft Copies in appropriate media.	30	No.		
	Data/ Voice EDGE Switch				
4.12	48 10/100/1000 PoE+ ports with 370W power budget, 4 X 10 Gigabit SFP+, Stackable Rack-mountable as ARUBA/CISCO/RUCKUS c/w all necessary parts or approved equivalent.	1	No.		
	Data/ Voice CORE Switch				
4.13	12 x 10 Gigabit SFP+, 2 x 10 Gigabit copper ports (combo with 2 x SFP+), 1 x GE management port, Rack- mountable as ARUBA/CISCO/RUCKUS or approved equivalent c/w all necessary accessories.	1	No.		
	Wireless Access Point (WAP)				
4.14	Wireless Access Point c/w Controller, Indoor, Internal Antenna as ARUBA/CISCO/RUCKUS Access Point, internal antenna; ceiling mount, Wi-Fi 6; 2x2:2 MIMO or approved equivalent or better.	30	No.		
	IP Telephones				
4.15	Standard Phone: IP Phone, POE, 2x10/100/1000 Ethernet Ports, 2.7" 192x64-pixel graphical LCD, 6-line Keys, 15 (3 pages of 5 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 12 SIP Accounts, 5-way Conferencing, 2 Adjustable Angles, c/w UC License, c/w all necessary accessories as Yealink SIP- T42U or approved equivalent compatible with the IP-PBX.	10	No.		
	Telephone Operator Phone				
4.16	IP Phone, POE, 2x10/100/1000 Ethernet Ports, 4.3" 480 x 272-pixel color display, 10-line Keys, 27 (3 pages of 9 keys) Memory Keys, Full-duplex HD Speaker, HD Handset, 16 SIP Accounts, 10-way Conferencing, complete with UC License, c/w all necessary accessories as Yealink SIP- T46U or approved equivalent compatible with the IP-PBX.	1	No.		
	Network cabinet				
4.17	9U Rack wall mounted, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	4	No.		
4.18	42U Rack Floor Standing, Glass door Factory Manufactured Network Cabinet 800Wx800D with low noise (low Db) fans, Power Distribution Unit and all necessary parts.	1	No.		
KLE/266	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	IP-PBX				
4.19	IP-PBX of the following minimum capacity: supportive parts and accessories.: Base Users / Max Users 75/100 • Max Concurrent Calls: 30 • Max FXS Ports: 16 • Max FXO/BRI Ports: 16 • Max GSM/3G/4G Ports: 6 • Max E1/T1/J1 Ports: 2 • Ethernet Interfaces: 2 x (10/100/1000 Mbps) • Hard Disk: 1 SATA (Up to 2TB) • USB 1: (Up to 2TB) as Yeastar or approved equivalent or better c/w UC Licenses, all associated cards and accessories and accessories.	1	No.		
	Expansion Module				
4.2	Expansion Module for the Telephone Operator console as Yealink EXP43 Expansion Module or approved equivalent.	1	No.		
	Headphone				
4.21	Wired Headphone compatible with the Telephone Operator console as Yealink YHS36 Mono QD RJ9 Wired Headset or approved equivalent.	2	No.		
	UPS				
4.22	Single Phase 240V, 10KVA UPS as APC Smart with multi o/p ports, USB and serial port c/w manual bypass and 15 mins run time.	1	No.		
	CCTV CAMERAS				
4.23	Network Dome Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 40m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2746G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	4	No.		
4.24	Network Bullet Camera: 4MP (2688 × 1520@25 fps), 2.8 to 12 mm motorized VF lens, Color: 0.003 lux, IR Range up to 60m, D(64m) O (25.4m) R (12.8) I (6.4), 120dB WDR, H.265, 1 RJ45 10M/100M PoE Port, 12.5 W, Built-in microSD/SDHC/SDXC card slot c/w 256 GB, IK10, Face capture, Detection (Motion, intrusion, unattended baggage, object removal, scene change), Privacy Mask, captured pictures uploading to Email as Hikvision DS-2CD2646G2-IZS 4MP IR Vf Dome Network Camera or approved equivalent of similar	8	No.		
4.25	4MP PTZ camera as Hikvision or approved equivalent	2	No.		
LKE/267	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CCTV Monitoring Screen to approval				
4.26	• Screen Size: 55-inch LED • Pixel Pitch 0.63 mm • Physical Seam 3.5 mm • Resolution 1920 × 1080@60 Hz • Brightness 700 cd/m² • Viewing Angle H&V 178° • Color Depth 8-bit, 16.7 M • Response Time 8 ms	1	No.		
4.27	Surveillance 10TB HDD as Seagate Hawk or approved equivalent	3	No		
	Network Keyboard (Joystick)				
4.28	• Decoding Format H.265 • Decoding Capability 4@1080p (FHD) • Decoding Format H.264, H.265, MPEG4 • Decoding Capability 4@1080p • Touch Screen type • Divide video wall into regions to manage video wall by region • Preview camera live image on network keyboard touchscreen	1	No.		
	ISDN & GSM CONNECTIVITY				
4.29	Allow for ISDN and GSM Connectivity Charges from ISP to be identified by the Client	1	Item		
	System Administration PC				
4.30	Desktop PC: HP 280 7th Gen, Intel Core i5, 1TB HDD, 8GB RAM, 20 Inch Screen, LED Backlit Monitor, DVD Super Multi, HDMI port, RJ45 port, VGA port as HP or approved equivalent c/w windows 10 OS or latest.	1	No.		
4.31	Train at least 10 No. KSG and SDPW-RWO Technical Officers on administration, operation and maintenance of all the installed systems.	1	Item		
4.32	Test and Commission the DATA, VOICE AND CCTV System to the satisfaction of the Project Engineer and Project Implementation Team.	1	Item		
4.33	Supply to the Project Engineer with Network Documentation entailing As- installed Drawings/Schematics, Cable Test Results, Installation, Operation & Maintenance Manuals for Active Devices in Bound Booklet 3 No. copies and in a Flash Disk 2 No. Copies.	1	Item		
KLE/268	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 4 DATA AND VOICE CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following; -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE EMERGENCY EVACUATION SYSTEM				
	(To be compliant with relevant parts of EN 54 standard)				
4.34	Speakers cable Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	25	LM		
4.35	Ceiling mounted Fire evacuation speaker, IP 65 outdoor, with the following minimum specifications and to approval: Diameter:213mm Thickness: 65mm Ceiling hole:170 mm Power:6-10W Voltage: 70/110V Frequency response : 100-16kHz Sensitivity : 90dB Loudest pressure level (1m)95dB Speaker:6.5inch	15	No		
4.36	DITTO but wall mounted	16	No		
4.37	350 W, 24VDC network Voice Evacuation Control Panel compatible with Fire alarm control panel to Engineers specifications and approval	1	No		
	Centralized Television system				
4.38	DSTV set with DISH, DECODER CABLING brackets Extra View plus 12 Months PREMIUM SUBSCRIPTION	1	No		
4.39	5x16 multi-switch for cable distribution	4	No.		
4.40	Satellite amplifier	2	No.		
4.41	TV points comprising Draw wire in concealed PVC conduits	2	No.		
4.42	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	2	No.		
4.43	Coaxial cable for TV works	100	LM		
	Network video recorder				
4.44	• IP video input: 64-ch • In/out BW: 576 /512 Mbps • 2xHDMI o/p: 4K@30Hz, • Decode format H.265, H.265+ • Max. Video resolution 32 MP, • Capability 1-ch@32 MP@30 fps) • Synchronous playback: 16-ch • 16 SATA of Up to 10 TB HDD • RAID 0, 1, 5, 6, 10 • Alarm input/output 16/8 • c/w One extension board: 4x10M/100M/1000M (1.25 Gbps SFP module) As Hikvision DS-96128NI-I16, c/w One Extension Board, 100TB Storage Capacity and all necessary accessories and as further specified or approved	1	no		
KLE/269	SUB TOTAL C/F TO SUMMARY PAGE				

<u>MAIN SUMMARY</u>		
ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Subtotal B/F from schedule 1: - OTHER SPACES	
B	Subtotal B/F from schedule 3: - LIGHTNING PROTECTION	
C	Subtotal B/F from schedule 4: - DATA AND VOICE	
D	Allow for Electrical engineering supervision expenses including samples inspections and approvals at workshops, purchase and hiring of relevant testing and commissioning tools, CPD training as well acquisition required stationeries for the efficient supervision of electrical works	
E	Allow for four sets of 'As Installed Drawings'	
KLE/270	TOTAL CARRIED FORWARD TO ELECTRICAL WORKS COLLECTION PAGE	

SWIMMING POOL ELECTRICAL WORKS

SCHEDULE NO.1 ELECTRICAL INSTALLATION WORKS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following:-				
1.01	Lighting points wired in waterproof 1.5 mm ² SC CU cables drawn in concealed in watertight 20mm diameter HG P.V.C conduits for: -				
	a) one way switching	16	No		
1.02	UNDERWATER LIGHTING FITTINGS				
	a) Stainless steel recessed LED pool light RGBW colour changing, IP 68, 15 watts, complete with standard underwater quality pool light housings as Spektralight Aqua or equivalent to Engineers approval	16	No		
1.03	Pool light control panel, box complete with 12 Volt AC output transformer for underwater pool lights, External controller/Remote with operating distance of up to 100m and all necessary accessories.	2	No.		
	POOL EQUIPMENT POWER POINTS				
1.04	16A Socket outlet points wired radial from DB comprising of 3x4 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits for the swimming pool heat pump, emergency shutdown system.	10	No.		
1.05	16A 3 Pin Watertight, IP 44 Industrial socket outlets complete with plugs as SCHNEIDER or approved equivalent	10	No.		
1.06	IP65 rated, 20A SPN Isolator switch for item above as SCHNEIDER or approved equivalent	10	No.		
1.07	30A, 240V Automatic Voltage Switcher (AVS30) complete with all accessories as Sollatek or approved equivalent	2	No.		
1.08	8 ways TP&N, flush mounted Distribution Board complete with 125A integral isolator as SCHNEIDER or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
	MCB's for item above				
	(a) 10A, SP	1	No.		
	(b) 20A, SP	2	No.		
	(c) 30A, SP	2	No.		
	(d) 20A TPN	2	No.		
	(e) 32A TPN	2	No.		
	(f) Blanking plates	3	No.		
SWE/272	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.1 ELECTRICAL INSTALLATION WORKS CONT.D

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following: -				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
1.09	EXTERNAL AREA SOLAR LIGHTING				
	7 Meters, Side Entry, Galvanized steel streetlighting posts for solar lighting complete with solar mounting bracket and battery box housing and power control box including excavations and concrete base of 600mm diameter x 850mm deep and all other necessary accessories. The post should incorporate and be integrated with the following to Engineers approval	10	No		
	a) - minimum 150W/12V, monocrystalline solar panel with operating temperature from -15 °C to 85 °C as Amerisolar, Jinko or approved equivalent	10	No		
	b) - Minimum 500WH Sealed or integrated (maintenance free) lead acid solar battery as Victron, Gaston or approved equivalent	10	No		
	c) - At least 20,000 hours life at 25 °C , IP66 LED street light 12VDC /50W, 4700lm as Nikon LEDXION, PHILIPS (side entry) with auto on and off and dimming function or approved equivalent	10	No		
	d) - intelligent MTTP solar charge controller 20A/12V as Victron or approved equivalent	10	No		
	e) -cables and all other necessary accessories including earthing	1	Lot		
	f) -A photocell to fit 70-75 lux switch on level and 1.5 maximum differential as Thorn QPK or approved equivalent	10	No		
	g) -Any other item to compete the installation.		Item		
SWE/273	Total C/F to Next Page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION SUMMARY</u>				
1	Bahari Hostel				
2	Sabaki Hostel				
3	Galana Hostel				
4	Mzima Hostel				
5	Marere Hostel				
6	STAFF HOUSE TYPOLOGY 1				
7	STAFF HOUSE TYPOLOGY 2				
8	STAFF HOUSE TYPOLOGY 3				
9	STAFF HOUSE TYPOLOGY 4				
10	LAUNDRY AND KITCHEN				
11	SWIMMING POOL				
BNE/274	Total carried to Grand Summary				

BILL NO. 5

MECHANICAL WORKS

BAHARI HOSTELS:

**PLUMBING, DRAINAGE, SANITARY FITTINGS AND FIRE
PROTECTION WORKS**

Item	Description	Unit	Qty	Rate	Amount
A	DEMOLITIONS OF THE BATH TUBS Allow for the demolitions of all the existing bath tubs in the accommodation rooms and handover to the client	No.	-		
B.	<u>DEMOLITIONS OF THE SANITARY FITTINGS</u> Allow for careful demolitions of all the existing sanitary fittings in the washrooms and handover to the client	No	237.00		
C	<u>DEMOLITIONS OF THE EXISTING PIPEWORK</u> Allow for careful demolitions of all the existing pipework fittings and handover to the client	No	79.00		
D	<u>SHOWER CUBICLES INSTALLATIONS</u> Allow for the supply, delivery and installation of shower cubicles measuring 900mm x900mm X 2400mm high <u>SANITARY FITTINGS</u> Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Duravit products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings	No.	79.00		
E	Water Closet Duravit D-CODE Close Coupled WC suite in Vitreous China and approved colour comprising of WC bowl,'P' or 'S' trap connector, heavy duty matching seat and cover with metal top fixed chrome plated hinges and chrome plated push button with all the other necessary accessories.	No	79.00		
F	Wash Hand Basin PEDESTALS Twyford's "SOLA L.B.G/L" wash hand basin with no tap holes and chain stay hole cat. No. WB 1520WH, wall brackets cat no. SR 1315 xx complete with "Lever action mixer fitting, 1/2 with swivel nozzle and divided flow" wall mounted mixer cat. no. SF 1099 CP, chrome grid waste 1 1/4" cat no. WF 4341 CP and white plastic bottle trap 1 1/4" P-trap cat. no.WF 8482 xx or approved equivalent.	No	79.00		
BHM/277	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Towel Rail Chrome plated towel rail 650mm long with the rail and brackets as one piece, all as Duravit or equal and approved.	No	79.00		
B	Soap Dish Semi recessed built in soap tray in Vitreous China of size: 305 x 150mm in approved colour as Duravit or equal and approved.	No	79.00		
D	Toilet roll holder Toilet roll holder in vitreous china to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to be as Duravit or equal and approved	No	79.00		
E	Mirrors 6mm thick polished plate glass, silver backed mirror with beveled edges, size 600 x 610mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	No	79.00		
BHM/278	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Robe hook Robe hook in vitreous china and in white colour mounted unto a concealed screw to wall wedges, to be as Duravit or approved equivalent.	No	79.00		
B	SHOWER FITTINGS Shower fittings c/w Instant electric shower head heater with embedded rod type sheathed element. Electrically insulated with electronic temperature control complete with wide rose and overflow to withstand a working pressure of up to 400kpa. It shall have a heating capacity of about 5.5kw and complete with extension shower arm and 4mm ² electric supply cable to neon lit DP switch, all to be as "Lorenzetti" or equal and approved	No	79.00		
BHM/279	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Persons with disability/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-liter 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 ball valve, 3 /4" side overflow, plastics flush bend, 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 450 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. iii) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminum and mounted on a wall fixing plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.	Set	4.00		
BHM/280	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Water Mixer Taps 10 litres capacity under sink instantaneous water heater complete with 3.0kw electric heating element, externally adjustable capillary type thermostat, polyurethane form thermal insulation, corrosion-proof molding outer casing, mountings, water and electrical connections. The heater shall be as Ariston with power supply 3.0kw, 240/50Hz or equal and approved.	No	79.00		
BHM/281	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>INTERNAL PLUMBING</u> To supply and install Chlorinated Polyvinyl Chloride (CPVC) tubing and fittings which meet requirements of ASTM F442 as described. Tenderers must allow for jointings, clippings, couplings etc, necessary for the proper and satisfactory functioning of the installation when pricing. All joints shall assemble using solvent cements that meet or exceeds the requirement of ASTM F493 and to the Engineer's Approval. Rates must allow for all Metal/plastic threaded adaptors where required for connection of sanitary fixtures, valves etc. CPVC PIPES A 15mm diameter CPVC pipe. B 20mm -Ditto- C 25mm -Ditto- D 32mm -Ditto- E 40mm -Ditto- F 50mm -Ditto- Extra- over CPVC pipework for the following. Bends G 15mm bends H 20mm -Ditto- I 25mm -Ditto- J 32mm -Ditto- K 40mm -Ditto- L 50mm -Ditto-				
		Lm	277.00		
		Lm	178.00		
		Lm	310.00		
		Lm	288.00		
		Lm	141.00		
		Lm	153.00		
		No	338.00		
		No	306.00		
		No	400.00		
		No	301.00		
		No	293.00		
		No	187.00		
BHM/282	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>Threaded fittings</u>				
A B	20x15mm dia. male threaded 90° bend	No	339.00		
C D	25x15mm dia. male threaded 90° bend	No	333.00		
	32x15mm dia. female threaded 90° bend	No	271.00		
E F	40x15mm dia. female threaded 90° bend	No	191.00		
G H	Equal tees				
I	20mm equal tee	No	281.00		
	25mm equal tee	No	345.00		
J K	32mm -Ditto-	No	394.00		
L M	40mm -Ditto-	No	267.00		
N	50mm -Ditto-	No	84.00		
	Reducers				
O	20x15mm reducer	No	443.00		
	25x20mm -Ditto-	No	398.00		
P Q	32x25mm -Ditto-	No	267.00		
	40x32mm -Ditto-	No	259.00		
R	50x40 mm -Ditto-	No	149.00		
S	Gate valves				
	50mm dia. 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 approved equivalent.	No	35.00		
	40mm -ditto-	No	85.00		
	32mm -ditto-	No	96.00		
	25mm -ditto-	No	154.00		
	20mm -ditto-	No	210.00		
BHM/283	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Plain Sockets 50mm sockets	No	269.00		
B	40mm ditto	No	298.00		
C	32mm ditto	No	310.00		
D	25mm ditto	No	421.00		
E	Allow for water connection from existing water supply mains.	Item	2.00		
F	50 mm diameter pipe GI from existing supply pipe to the Existing buildings	Lm	308.00		
G	Excavation from existing supply pipe to the existing buildings to be renovated	Lm	554.00		
H	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	No	211.00		
I	Water Storage Tank Supply, deliver and install vertical close end plastic molded tank of capacity 2,000 litres (652 gallons) and diameter 1550 x 1250mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, high pressure ball valve, drain pipes and any other necessary item for its proper functioning.	No	20.00		
J	The tank shall be mounted on a platform and shall be as ROTO Model or approved equivalent. Allow for pressure testing, flushing out and sterilization of the cold-water system as required to the satisfaction of the Engineer.	Item	2.00		
BHM/284	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	INTERNAL DRAINAGE				
	All drainage pipes to be as 'Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes.				
	PVC and muPVC pipework				
		Lm	563.00		
A	100mm heavy-duty golden-brown pipe class D	Lm	406.00		
B	100mm diameter heavy duty grey pipe class D	Lm	128.00		
C	50mm ditto	Lm	60.00		
D	40mm ditto	Lm	170.00		
E	32mm ditto				
	PVC and muPVC pipework				
		No	267.00		
F	100mm diameter long radius bend	No	394.00		
G	32mm diameter bend	No	394.00		
H	32mm diameter sweep Tee	No	167.00		
I	100mm diameter sweep Tee	No	168.00		
J	50mm diameter sweep Tee	No	266.00		
K	40mm diameter sweep Tee	No	383.00		
L	100mm diameter access cap	No	382.00		
M	50mm diameter access cap	No	383.00		
N	40mm diameter access cap	No	389.00		
O	32mm diameter access cap	No	387.00		
P	40mm diameter bend	No	192.00		
Q	50mm diameter bend				
BHM/285	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	REPLACE THE FOLLOWING ITEMS AS DIRECTED BY THE PROJECT MANAGER				
A	100 mm diameter WC connector	No	221.00		
B	100mm diameter 4-way Floor trap and grating	No	122.00		
C	100mm floor gully complete with cover	No	26.00		
D	100mm diameter vent cowl	No	8.00		
E	100mm diameter weathering slate and apron	No	8.00		
F	Rehabilitation of Inspection Chamber(manhole) c/w Manhole covers	No	36.00		
G	Rehabilitation of Internal Drainage systems	no	15.00		
H.	Testing and commissioning the internal drainage installations	Item	2.00		
I	Rehabilitation, Testing and commissioning the Entire External drainage installations	Item	2.00		
BHM/286	Total carried forward to the collection page				

Item	Description	Qty	Qty	Rate	Amount
	<u>FIRE FIGHTING EQUIPMENT</u>				
	Supply, deliver and install the following firefighting equipment in positions indicated on the contract drawings or as shall be instructed by the Engineer.				
A	Hose Reels 20mm diameter 30m long swimming type fire hose reel complete with delivery valve, mild steel feed pipe, isolation valve guide and all other accessories as "ANGUS FIRE ARMOUR" or equal and approved.	No.	15.00		
B	Hose Reel Pump Hose reel pump set mounted on a frame with a mild steel base plate. There shall be two pumps one duty the other standby each of duty 4.5m³/hr against 25m head Grundfos or approved equivalent. In addition, there shall be a 24litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dry run, gate valves and non-return valves.	Set	2.00		
C	Control Panel Control panel for the above pumps with contactors, over voltage and under voltage protection relays, start/stop push buttons and indicators lights. All this shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated.	No.	2.00		
	PIPE WORK Supply, deliver and install galvanized mild steel pipes to BS 1387, class "B" Tenderers must allow in their pricing of pipework for all couplings, connectors, joints, unions etc as required in running lengths of pipework. Also, where necessary for pipe fixing clips, holderbats plugged or screwed.	Lm	436.00		
		Lm	507.00		
	GMS PIPE	No	158.00		
D	50mm diameter gms pipe class "B"				
E	25mm diameter gms pipe class "B"				
F	Bends 50mm diameter Bend				
BHM/287	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	25mm -ditto-	No	270.00		
B	50mm x25mm Reducer	No	261.00		
	50mm equal Tee	No	260.00		
C	Gate valve				
D	50mm Gate valve	No	10.00		
E	25mm -ditto-	No	73.00		
F	50mm non return valve	No	10.00		
	Unions				
G	50mm diameter pipe unions	No	219.00		
H	25mm diameter pipe unions	No	138.00		
I	25mm air release valve	No	30.00		
J	50mm ditto	No	15.00		
K	Water/Carbon Dioxide Gas Fire Extinguisher 9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No	20.00		
L	Carbon dioxide Gas Fire Extinguisher 4.5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	20.00		
M	Dry Chemical Powder Fire Extinguisher 9kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	20.00		
N	Fire Notices Allow for fire signage for the hose reel system, fire exits and fire instructions as described in the particular specifications and to the Project Engineer's approval.	No	15.00		
N	9" (225mm) wall mounted manual alarm bell	No.	15.00		
BHM/288	Total carried forward to the collection page				

COLLECTION PAGE			
Item	Description	Total	
A	Total brought forward from page BHM/277		
B	Total brought forward from page BHM/278		
C	Total brought forward from page BHM/279		
D	Total brought forward from page BHM/280		
E	Total brought forward from page BHM/281		
F	Total brought forward from page BHM/282		
G	Total brought forward from page BHM/283		
H	Total brought forward from page BHM/284		
I	Total brought forward from page BHM/285		
J	Total brought forward from page BHM/286		
K	Total brought forward from page BHM/287		
L	Total brought forward from page BHM/288		
BHM/289	Total Cost for Sanitary Fittings, Plumbing works, Drainage works, and Fire Fighting Equipment for Bahari Hostel carried to Main Summary page		

SABAKI HOSTELS:

**PLUMBING, DRAINAGE, SANITARY FITTINGS AND FIRE
PROTECTION WORKS**

Item	Description	Unit	Qty	Rate	Amount
A	DEMOLITIONS OF THE BATH TUBS Allow for the demolitions of all the existing bath tubs in the accommodation rooms and handover to the client	No.	-		
B.	<u>DEMOLITIONS OF THE SANITARY FITTINGS</u> Allow for careful demolitions of all the existing sanitary fittings in the washrooms and handover to the client	No	81.00		
C	<u>DEMOLITIONS OF THE EXISTING PIPEWORK</u> Allow for careful demolitions of all the existing pipework fittings and handover to the client	No	27.00		
D	<u>SHOWER CUBICLES INSTALLATIONS</u> Allow for the supply, delivery and installation of shower cubicles measuring 900mm x900mm X 2400mm high <u>SANITARY FITTINGS</u> Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Duravit products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings	No.	27.00		
E	Water Closet Duravit D-CODE Close Coupled WC suite in Vitreous china and approved colour comprising of WC bowl,'P' or 'S' trap connector,heavy duty matching seat and cover with metal top fixed chrome plated hinges and chrome plated push button with all the other necessary accessories.	No	27.00		
F	Wash Hand Basin PEDESTALS Twyford's "SOLA L.B.G/L" wash hand basin with no tap holes and chain stay hole cat. No. WB 1520WH, wall brackets cat no. SR 1315 xx complete with "lever action mixer fitting, 1/2 with swivel nozzle and divided flow" wall mounted mixer cat. no. SF 1099 CP, chrome grid waste 1 1/4" cat no. WF 4341 CP and white plastic bottle trap 1 1/4" P-trap cat. no.WF 8482 xx or approved equivalent.	No	27.00		
SHM/291	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Towel Rail Chrome plated towel rail 650mm long with the rail and brackets as one piece, all as Duravit or equal and approved.	No	27.00		
B	Soap Dish Semi recessed built in soap tray in Vitreous China of size: 305 x 150mm in approved colour as Duravit or equal and approved.	No	27.00		
D	Toilet roll holder Toilet roll holder in vitreous china to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to be as Duravit or equal and approved	No	27.00		
E	Mirrors 6mm thick polished plate glass, silver backed mirror with beveled edges, size 600 x 610mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	No	27.00		
SHM/292	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Robe hook Robe hook in vitreous china and in white colour mounted unto a concealed screw to wall wedges, to be as Duravit or approved equivalent.	No	27.00		
B	SHOWER FITTINGS Shower fittings c/w Instant electric shower head heater with embedded rod type sheathed element. Electrically insulated with electronic temperature control complete with wide rose and overflow to withstand a working pressure of upto 400kpa. It shall have a heating capacity of about 5.5kw and complete with extension shower arm and 4mm2 electric supply cable to neon lit DP switch, all to be as "Lorenzetti" or equal and approved	No	27.00		
SHM/293	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Persons with disabilityWater Closet and Wash Hand Basin Facility Wheel chair accessible W.C facility Comprising of the following: - i) Close coupled W.C with 7.5-liter 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 ball valve, 3 /4" side overflow, plastics flush bend, 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 450 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. iii) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminum and mounted on a wall fixing plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.	Set	4.00		
SHM/294	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Water Mixer Taps 10 litres capacity under sink instantaneous water heater complete with 3.0kw electric heating element, externally adjustable capillary type thermostat, polyurethane form thermal insulation, corrosion-proof molding outer casing, mountings, water and electrical connections. The heater shall be as Ariston with power supply 3.0kw, 240/50Hz or equal and approved.	No	27.00		
SHM/295	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>INTERNAL PLUMBING</u> To supply and install Chlorinated Polyvinyl Chloride (CPVC) tubing and fittings which meet requirements of ASTM F442 as described. Tenderers must allow for jointings, clippings, couplings etc., necessary for the proper and satisfactory functioning of the installation when pricing. All joints shall assembled using solvent cements that meet or exceeds the requirement of ASTM F493 and to the Engineer's Approval. Rates must allow for all Metal/plastic threaded adaptors where required for connection of sanitary fixtures, valves etc.				
	CPVC PIPES				
A	15mm diameter CPVC pipe.	Lm	160.00		
B	20mm -Ditto-	Lm	103.00		
C	25mm -Ditto-	Lm	179.00		
D	32mm Ditto-	Lm	167.00		
E	40mm Ditto-	Lm	81.00		
F	50mm -Ditto-	Lm	89.00		
	Extra- over CPVC pipework for the following.				
	Bends				
E	15mm bends	No	195.00		
F	20mm -Ditto-	No	177.00		
G	25mm -Ditto-	No	231.00		
H	32mm -Ditto-	No	174.00		
I	40mm -Ditto-	No	169.00		
J	50mm -Ditto-	No	108.00		
SHM/296	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>Threaded fittings</u>				
A	20x15mm dia. male threaded 90° bend	No	196.00		
B	25x15mm dia. male threaded 90° bend	No	192.00		
C	32x15mm dia. female threaded 90° bend	No	157.00		
D	40x15mm dia. female threaded 90° bend	No	111.00		
	Equal tees				
E	20mm equal tee	No	162.00		
F	25mm equal tee	No	199.00		
G	32mm -Ditto-	No	228.00		
H I	40mm -Ditto-	No	155.00		
J	50mm -Ditto-	No	49.00		
	Reducers				
K	20x15mm reducer	No	256.00		
L	25x20mm -Ditto-	No	230.00		
M	32x25mm -Ditto-	No	155.00		
N	40x32mm -Ditto-	No	150.00		
	50x40 mm -Ditto-	No	86.00		
O	Gate valves				
	50mm dia. 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 approved equivalent.	No	20.00		
P		No	49.00		
Q	40mm -ditto-	No	56.00		
R	32mm -ditto-	No	89.00		
S	25mm -ditto-	No	121.00		
	20mm -ditto-				
SHM/297	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Plain Sockets 50mm sockets	No	155.00		
B	40mm ditto	No	172.00		
C	32mm ditto	No	179.00		
D	25mm ditto	No	243.00		
E	Allow for water connection from existing water supply mains.	Item	1.00		
F	50 mm diameter pipe GI from existing supply pipe to the Existing buildings	Lm	178.00		
G	Excavation from existing supply pipe to the existing buildings to be renovated	Lm	320.00		
H	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	No	122.00		
I	Water Storage Tank Supply, deliver and install vertical close end plastic molded tank of capacity 2,000 litres (652 gallons) and diameter 1550 x 1250mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a platform and shall be as ROTO Model or approved equivalent.	No	12.00		
J	Allow for pressure testing, flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.	Item	1.00		
SHM/298	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	INTERNAL DRAINAGE				
	All drainage pipes to be as 'Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes.				
	PVC and muPVC pipework				
A	100mm heavy duty golden brown pipe class D	Lm	325.00		
B	100mm diameter heavy duty grey pipe class D	Lm	235.00		
C	50mm ditto	Lm	74.00		
D	40mm ditto	Lm	35.00		
E	32mm ditto	Lm	98.00		
	PVC and muPVC pipework				
F	100mm diameter long radius bend	No	155.00		
G	32mm diameter bend	No	228.00		
H	32mm diameter sweep Tee	No	228.00		
I	100mm diameter sweep Tee	No	96.00		
J	50mm diameter sweep Tee	No	97.00		
K	40mm diameter sweep Tee	No	154.00		
L	100mm diameter access cap	No	221.00		
M	50mm diameter access cap	No	221.00		
N	40mm diameter access cap	No	221.00		
O	32mm diameter access cap	No	225.00		
P	40mm diameter bend	No	223.00		
Q	50mm diameter bend	No	111.00		
SHM/299	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	REPLACE THE FOLLOWING ITEMS AS DIRECTED BY THE PROJECT MANAGER				
A	100 mm diameter WC connector	No	128.00		
B	100mm diameter 4-way Floor trap and grating	No	71.00		
C	100mm floor gully complete with cover	No	15.00		
D	100mm diameter vent cowl	No	5.00		
E	100mm diameter weathering slate and apron	No	5.00		
F	Rehabilitation of Inspection Chamber(manhole) c/w Manhole covers	No	21.00		
G	Rehabilitation of Internal Drainage systems	no	9.00		
H.	Testing and commissioning the internal drainage installations	Item	1.00		
	Rehabilitation, Testing and commissioning the Entire External drainage installations	Item	1.00		
I					
SHM/300	Total carried forward to the collection page				

Item	Description	Qty	Qty	Rate	Amount
	<u>FIRE FIGHTING EQUIPMENT</u> Supply, deliver and install the following fire fighting equipment in positions indicated on the contract drawings or as shall be instructed by the Engineer.				
A	Hose Reels 20mm diameter 30m long swimming type fire hose reel complete with delivery valve, mild steel feed pipe, isolation valve guide and all other accessories as "ANGUS FIRE ARMOUR" or equal and approved.	No.	9.00		
B	Hose Reel Pump Hose reel pumpset mounted on a frame with a mild steel base plate. There shall be two pumps one duty the other standby each of duty 4.5m³/hr against 25m head Grundfos or approved equivalent. In addition there shall be a 24litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dry run, gate valves and non-return valves.	Set	1.00		
C	Control Panel Control panel for the above pumps with contactors, over voltage and under voltage protection relays, start/stop push buttons and indicators lights. All this shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated.	No.	1.00		
	PIPE WORK Supply, deliver and install galvanized mild steel pipes to BS 1387, class "B" Tenderers must allow in their pricing of pipework for all couplings, connectors, joints, unions etc as required in running lengths of pipework. Also where necessary for pipe fixing clips, holderbats plugged or screwed.				
	GMS PIPE				
D	50mm diameter gms pipe class "B"	Lm	252.00		
E	25mm diameter gms pipe class "B"	Lm	293.00		
	Bends				
F	50mm diameter Bend	No	91.00		
SHM/301	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	25mm -ditto-	No	156.00		
B	50mm x25mm Reducer	No	151.00		
	50mm equal Tee	No	150.00		
C	Gate valve				
D	50mm Gate valve	No	6.00		
E	25mm -ditto-	No	42.00		
F	50mm non return valve	No	6.00		
	Unions				
G	50mm diameter pipe unions	No	127.00		
H	25mm diameter pipe unions	No	80.00		
I	25mm air release valve	No	18.00		
J	50mm ditto	No	9.00		
	Water/Carbon Dioxide Gas Fire Extinguisher				
K	9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No	12.00		
	Carbon dioxide Gas Fire Extinguisher				
L	4.5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	12.00		
	Dry Chemical Powder Fire Extinguisher				
M	9kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	12.00		
	Fire Notices				
N	Allow for fire signage for the hose reel system, fire exits and fire instructions as described in the particular specifications and to the Project Engineer's approval.	No	9.00		
N	9" (225mm) wall mounted manual alarm bell	No.	9.00		
SHM/302	Total carried forward to the collection page				

COLLECTION PAGE			
Item	Description	Total	
A	Total brought forward from page SHM/291		
B	Total brought forward from page SHM/292		
C	Total brought forward from page SHM/293		
D	Total brought forward from page SHM/294		
E	Total brought forward from page SHM/295		
F	Total brought forward from page SHM/296		
G	Total brought forward from page SHM/297		
H	Total brought forward from page SHM/298		
I	Total brought forward from page SHM/299		
J	Total brought forward from page SHM/300		
K	Total brought forward from page SHM/301		
L	Total brought forward from page SHM/302		
SHM/ 303	Total Cost for Sanitary Fittings, Plumbing works, Drainage works, and Fire Fighting Equipment for Sabaki Hostel carried to Main Summary page		

GALANA HOSTELS:

**PLUMBING, DRAINAGE, SANITARY FITTINGS AND FIRE
PROTECTION WORKS**

Item	Description	Unit	Qty	Rate	Amount
A	DEMOLITIONS OF THE BATH TUBS Allow for the demolitions of all the existing bath tubs in the accommodation rooms and handover to the client	No.	-		
B.	DEMOLITIONS OF THE SANITARY FITTINGS Allow for careful demolitions of all the existing sanitary fittings in the washrooms and handover to the client	No	66.00		
C	DEMOLITIONS OF THE EXISTING PIPEWORK Allow for careful demolitions of all the existing pipework fittings and handover to the client	No	22.00		
D	SHOWER CUBICLES INSTALLATIONS Allow for the supply, delivery and installation of shower cubicles measuring 900mm x900mm X 2400mm high	No.	22.00		
	SANITARY FITTINGS Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Duravit products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings				
E	Water Closet Duravit D-CODE Close Coupled WC suite in Vitreous china and approved colour comprising of WC bowl,'P' or 'S' trap connector, heavy duty matching seat and cover with metal top fixed chrome plated hinges and chrome plated push button with all the other necessary accessories.	No	22.00		
F	Wash Hand Basin PEDESTALS Twyford's "SOLA L.B.G/L" wash hand basin with no tap holes and chain stay hole cat. No. WB 1520WH, wall brackets cat no. SR 1315 xx complete with "lever action mixer fitting, 1/2 with swivel nozzle and divided flow" wall mounted mixer cat. no. SF 1099 CP, chrome grid waste 1 1/4" cat no. WF 4341 CP and white plastic bottle trap 1 1/4" P-trap cat. no.WF 8482 xx or approved equivalent.	No	22.00		
GHM/305	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Towel Rail Chrome plated towel rail 650mm long with the rail and brackets as one piece, all as Duravit or equal and approved.	No	22.00		
B	Soap Dish Semi recessed built in soap tray in Vitreous China of size: 305 x 150mm in approved colour as Duravit or equal and approved.	No	22.00		
D	Toilet roll holder Toilet roll holder in vitreous china to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to be as Duravit or equal and approved	No	22.00		
E	Mirrors 6mm thick polished plate glass, silver backed mirror with beveled edges, size 600 x 610mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	No	22.00		
GHM/306	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Robe hook Robe hook in vitreous China and in white colour mounted unto a concealed screw to wall wedges, to be as Duravit or approved equivalent.	No	22.00		
B	SHOWER FITTINGS Shower fittings c/w Instant electric shower head heater with embedded rod type sheathed element. Electrically insulated with electronic temperature control complete with wide rose and overflow to withstand a working pressure of up to 400kpa. It shall have a heating capacity of about 5.5kw and complete with extension shower arm and 4mm ² electric supply cable to neon lit DP switch, all to be as "Lorenzetti" or equal and approved	No	22.00		
GHM/307	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Persons with disabilityWater Closet and Wash Hand Basin Facility Wheel chair accessible W.C facility Comprising of the following: - i) Close coupled W.C with 7.5 liter 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 ball valve, 3 /4" side overflow, plastics flush bend, 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 450 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. iii) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminum and mounted on a wall fixing plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.	Set	4.00		
GHM/308	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Water Mixer Taps 10 litres capacity under sink instantaneous water heater complete with 3.0kw electric heating element, externally adjustable capillary type thermostat, polyurethane form thermal insulation, corrosion-proof molding outer casing, mountings, water and electrical connections. The heater shall be as Ariston with power supply 3.0kw, 240/50Hz or equal and approved.	No	22.00		
GHM/309	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>INTERNAL PLUMBING</u> To supply and install Chlorinated Polyvinyl Chloride (CPVC) tubing and fittings which meet requirements of ASTM F442 as described. Tenderers must allow for jointing's, clippings, couplings etc., necessary for the proper and satisfactory functioning of the installation when pricing. All joints shall assemble using solvent cements that meet or exceeds the requirement of ASTM F493 and to the Engineer's Approval. Rates must allow for all Metal/plastic threaded adaptors where required for connection of sanitary fixtures, valves etc CPVC PIPES				
A	15mm diameter CPVC pipe.	Lm	149.00		
B	20mm -Ditto-	Lm	96.00		
C	25mm -Ditto-	Lm	167.00		
D	32mm-Ditto-	Lm	155.00		
E	40mm-Ditto-	Lm	76.00		
F	50mm -Ditto-	Lm	82.00		
	Extra- over CPVC pipework for the following.				
	Bends				
		No	181.00		
E	15mm bends	No	164.00		
F	20mm -Ditto-	No	215.00		
G	25mm -Ditto-	No	162.00		
H	32mm -Ditto-	No	158.00		
I	40mm -Ditto-	No	101.00		
J	50mm -Ditto-				
GHM/310	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>Threaded fittings</u>				
A	20x15mm dia. male threaded 90° bend	No	182.00		
B	25x15mm dia. male threaded 90° bend	No	179.00		
C	32x15mm dia. female threaded 90° bend	No	146.00		
D	40x15mm dia. female threaded 90° bend	No	103.00		
	<u>Equal tees</u>				
E	20mm equal tee	No	151.00		
F	25mm equal tee	No	185.00		
G	32mm -Ditto-	No	212.00		
H	40mm -Ditto-	No	144.00		
I	50mm -Ditto-	No	45.00		
	<u>Reducers</u>				
J	20x15mm reducer	No	238.00		
K	25x20mm -Ditto-	No	214.00		
L	32x25mm -Ditto-	No	144.00		
M	40x32mm -Ditto-	No	139.00		
N	50x40 mm -Ditto-	No	80.00		
	<u>Gate valves</u>				
O	50mm dia. 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 approved equivalent.	No	19.00		
P	40mm-ditto-	No	46.00		
Q	32mm-ditto-	No	52.00		
R	25mm -ditto-	No	83.00		
S	20mm -ditto-	No	113.00		
GHM/311	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Plain Sockets 50mm sockets	No	144.00		
B	40mm ditto	No	160.00		
C	32mm ditto	No	167.00		
D	25mm ditto	No	226.00		
E	Allow for water connection from existing water supply mains.	Item	1.00		
F	50 mm diameter pipe GI from existing supply pipe to the Existing buildings	Lm	165.00		
G	Excavation from existing supply pipe to the existing buildings to be renovated	Lm	297.00		
H	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	No	113.00		
I	Water Storage Tank Supply, deliver and install vertical close end plastic molded tank of capacity 2,000 litres (652 gallons) and diameter 1550 x 1250mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a platform and shall be as ROTO Model or approved equivalent.	No	11.00		
J	Allow for pressure testing, flushing out and sterilization of the cold-water system as required to the satisfaction of the Engineer.	Item	1.00		
GHM/312	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	INTERNAL DRAINAGE				
	All drainage pipes to be as 'Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes.				
	PVC and muPVC pipework				
A	100mm heavy duty golden brown pipe class D	Lm	302.00		
B	100mm diameter heavy duty grey pipe class D	Lm	218.00		
C	50mm ditto	Lm	69.00		
D	40mmditto	Lm	32.00		
E	32mm ditto	Lm	92.00		
	PVC and muPVC pipework				
F	100mm diameter long radius bend	No	144.00		
G	32mm diameter bend	No	212.00		
H	32mm diameter sweep Tee	No	212.00		
I	100mm diameter sweep Tee	No	90.00		
J	50mm diameter sweep Tee	No	90.00		
K	40mm diameter sweep Tee	No	143.00		
L	100mm diameter access cap	No	206.00		
M	50mm diameter access cap	No	205.00		
N	40mm diameter access cap	No	206.00		
O	32mm diameter access cap	No	209.00		
P	40mm diameter bend	No	208.00		
Q	50mm diameter bend	No	103.00		
GHM/313	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	REPLACE THE FOLLOWING ITEMS AS DIRECTED BY THE PROJECT MANAGER				
A	100 mm diameter WC connector	No	119.00		
B	100mm diameter 4-way Floor trap and grating	No	66.00		
C	100mm floor gully complete with cover 100mm	No	14.00		
D	diameter vent cowl	No	4.00		
E	100mm diameter weathering slate and apron	No	4.00		
F	Rehabilitation of Inspection Chamber(manhole) c/w Manhole covers	No	20.00		
G	Rehabilitation of Internal Drainage systems	no	8.00		
H.	Testing and commissioning the internal drainage installations	Item	1.00		
I	Rehabilitation, Testing and commissioning the Entire External drainage installations	Item	1.00		
GHM/314	Total carried forward to the collection page				

Item	Description	Qty	Qty	Rate	Amount
	<u>FIRE FIGHTING EQUIPMENT</u> Supply, deliver and install the following firefighting equipment in positions indicated on the contract drawings or as shall be instructed by the Engineer.				
A	Hose Reels 20mm diameter 30m long swimming type fire hose reel complete with delivery valve, mild steel feed pipe, isolation valve guide and all other accessories as "ANGUS FIRE ARMOUR" or equal and approved.	No.	8.00		
B	Hose Reel Pump Hose reel pump set mounted on a frame with a mild steel base plate. There shall be two pumps one duty the other standby each of duty 4.5m³/hr against 25m head Grundfos or approved equivalent. In addition there shall be a 24litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dry run, gate valves and non-return valves.	Set	1.00		
C	Control Panel Control panel for the above pumps with contactors, over voltage and under voltage protection relays, start/stop push buttons and indicators lights. All this shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated.	No.	1.00		
	PIPE WORK Supply, deliver and install galvanized mild steel pipes to BS 1387, class "B" Tenderers must allow in their pricing of pipework for all couplings, connectors, joints, unions etc as required in running lengths of pipework. Also where necessary for pipe fixing clips, holderbats plugged or screwed.				
	GMS PIPE				
D	50mm diameter gms pipe class "B"	Lm	234.00		
E	25mm diameter gms pipe class "B"	Lm	272.00		
F	Bends 50mm diameter Bend	No	85.00		
GHM/315	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	25mm -ditto-	No	145.00		
B	50mm x25mm Reducer	No	140.00		
	50mm equal Tee	No	140.00		
C	Gate valve 50mm Gate valve	No	6.00		
D	25mm -ditto-	No	39.00		
E	50mm non return valve	No	6.00		
F	Unions 50mm diameter pipe unions	No	118.00		
G	25mm diameter pipe unions	No	74.00		
H	25mm air release valve	No	16.00		
I	50mm ditto	No	8.00		
	Water/Carbon Dioxide Gas Fire Extinguisher				
J	9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No	11.00		
K	Carbon dioxide Gas Fire Extinguisher 4.5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	11.00		
L	Dry Chemical Powder Fire Extinguisher 9kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	11.00		
M	Fire Notices Allow for fire signage for the hose reel system, fire exits and fire instructions as as described in the particular specifications and to the Project Engineer's approval.	No	8.00		
N	9" (225mm) wall mounted manual alarm bell	No.	8.00		
GHM/316	Total carried forward to the collection page				

COLLECTION PAGE			
Item	Description	Total	
A	Total brought forward from page GHM/305		
B	Total brought forward from page GHM/306		
C	Total brought forward from page GHM/307		
D	Total brought forward from page GHM/308		
E	Total brought forward from page GHM/309		
F	Total brought forward from page GHM/310		
G	Total brought forward from page GHM/311		
H	Total brought forward from page GHM/312		
I	Total brought forward from page GHM/313		
J	Total brought forward from page GHM/314		
K	Total brought forward from page GHM/315		
L	Total brought forward from page GHM/316		
GHM/317	Total Cost for Sanitary Fittings, Plumbing works, Drainage works, and Fire Fighting Equipment for Galana Hostel carried to Main Summary page		

MZIMA HOSTELS:

**PLUMBING, DRAINAGE, SANITARY FITTINGS AND FIRE
PROTECTION WORKS**

Item	Description	Unit	Qty	Rate	Amount
A	DEMOLITIONS OF THE BATH TUBS Allow for the demolitions of all the existing bath tubs in the accommodation rooms and handover to the client	No.	-		
B.	DEMOLITIONS OF THE SANITARY FITTINGS Allow for careful demolitions of all the existing sanitary fittings in the washrooms and handover to the client	No	198.00		
C	DEMOLITIONS OF THE EXISTING PIPEWORK Allow for careful demolitions of all the existing pipework fittings and handover to the client	No	66.00		
D	SHOWER CUBICLES INSTALLATIONS Allow for the supply, delivery and installation of shower cubicles measuring 900mm x900mm X 2400mm high	No.	66.00		
	SANITARY FITTINGS Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Duravit products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings				
E	Water Closet Duravit D-CODE Close Coupled WC suite in Vitreous China and approved colour comprising of W/C bowl,'P' or 'S' trap connector, heavy duty matching seat and cover with metal top fixed chrome plated hinges and chrome plated push button with all the other necessary accessories.	No	66.00		
F	Wash Hand Basin PEDESTALS Twyford's "SOLA L.B.G/L" wash hand basin with no tap holes and chain stay hole cat. No. WB 1520WH, wall brackets cat no. SR 1315 xx complete with "lever action mixer fitting, 1/2 with swivel nozzle and divided flow" wall mounted mixer cat. no. SF 1099 CP, chrome grid waste 1 1/4" cat no. WF 4341 CP and white plastic bottle trap 1 1/4" P-trap cat. no.WF 8482 xx or approved equivalent.	No	66.00		
MHM/319	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Towel Rail Chrome plated towel rail 650mm long with the rail and brackets as one piece, all as Duravit or equal and approved.	No	66.00		
B	Soap Dish Semi recessed built in soap tray in Vitreous China of size: 305 x 150mm in approved colour as Duravit or equal and approved.	No	66.00		
D	Toilet roll holder Toilet roll holder in vitreous China to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to be as Duravit or equal and approved	No	66.00		
E	Mirrors 6mm thick polished plate glass, silver backed mirror with beveled edges, size 600 x 610mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	No	66.00		
MHM/320	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Robe hook Robe hook in vitreous China and in white colour mounted unto a concealed screw to wall wedges, to be as Duravit or approved equivalent.	No	66.00		
B	SHOWER FITTINGS Shower fittings c/w Instant electric shower head heater with embedded rod type sheathed element. Electrically insulated with electronic temperature control complete with wide rose and overflow to withstand a working pressure of up to 400kpa. It shall have a heating capacity of about 5.5kw and complete with extension shower arm and 4mm ² electric supply cable to neon lit DP switch, all to be as "Lorenzetti" or equal and approved	No	66.00		
MHM/321	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Persons with disabilityWater 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 ball valve, 3 /4" side overflow, plastics flush bend, 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 450 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. iii) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminum and mounted on a wall fixing plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.	Set	4.00		
MHM/322	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Water Mixer Taps 10 litres capacity under sink instantaneous water heater complete with 3.0kw electric heating element, externally adjustable capillary type thermostat, polyurethane form thermal insulation, corrosion-proof molding outer casing, mountings, water and electrical connections. The heater shall be as Ariston with power supply 3.0kw, 240/50Hz or equal and approved.	No	66.00		
MHM/323	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>INTERNAL PLUMBING</u>				
	To supply and install Chlorinated Polyvinyl Chloride (CPVC) tubing and fittings which meet requirements of ASTM F442 as described. Tenderers must allow for jointing's, clippings, couplings etc., necessary for the proper and satisfactory functioning of the installation when pricing. All joints shall assemble using solvent cements that meet or exceeds the requirement of ASTM F493 and to the Engineer's Approval. Rates must allow for all Metal/plastic threaded adaptors where required for connection of sanitary fixtures, valves etc.				
	CPVC PIPES				
A	15mm diameter CPVC pipe.	Lm	248.00		
B	20mm -Ditto-	Lm	159.00		
C	25mm -Ditto-	Lm	278.00		
D	32mm -Ditto-	Lm	258.00		
E	40mm -Ditto-	Lm	126.00		
F	50mm -Ditto-	Lm	137.00		
	Extra- over CPVC pipework for the following.				
	Bends				
E	15mm bends	No	302.00		
F	20mm -Ditto-	No	273.00		
G	25mm -Ditto-	No	358.00		
H	32mm -Ditto-	No	269.00		
I	40mm -Ditto-	No	262.00		
J	50mm -Ditto-	No	168.00		
MHM/324	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>Threaded fittings</u>				
A	20x15mm dia. male threaded 90° bend	No	303.00		
B	25x15mm dia. male threaded 90° bend	No	297.00		
C	32x15mm dia. female threaded 90° bend	No	242.00		
D	40x15mm dia. female threaded 90° bend	No	171.00		
	Equal tees				
E	20mm equal tee	No	251.00		
F	25mm equal tee	No	308.00		
G	32mm -Ditto-	No	352.00		
H	40mm -Ditto-	No	239.00		
I	50mm -Ditto-	No	75.00		
	Reducers	No	396.00		
J	20x15mm reducer	No	356.00		
K	25x20mm -Ditto-	No	239.00		
L	32x25mm -Ditto-	No	231.00		
M	40x32mm -Ditto-	No	134.00		
N	50x40 mm -Ditto-				
	Gate valves				
O	50mm dia. 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 approved equivalent.	No	31.00		
		No	76.00		
P	40mm -ditto-	No	86.00		
		No	138.00		
Q	32mm -ditto-	No	187.00		
R	25mm -ditto-				
S	20mm -ditto-				
MHM/325	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	Plain Sockets				
A	50mm sockets	No	240.00		
B	40mm ditto	No	267.00		
C	32mm ditto	No	278.00		
D	25mm ditto	No	377.00		
E	Allow for water connection from existing water supply mains.	Item	2.00		
F	50 mm diameter pipe GI from existing supply pipe to the Existing buildings	Lm	275.00		
G	Excavation from existing supply pipe to the existing buildings to be renovated	Lm	495.00		
H	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	No	189.00		
I	Water Storage Tank Supply, deliver and install vertical close end plastic moulded tank of capacity 2,000 litres (652 gallons) and diameter 1550 x 1250mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a platform and shall be as ROTO Model or approved equivalent.	No	18.00		
J	Allow for pressure testing, flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.	Item	2.00		
MHM/326	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	INTERNAL DRAINAGE				
	All drainage pipes to be as 'Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes.				
	PVC and muPVC pipework				
A	100mm heavy duty golden brown pipeclass D	Lm	503.00		
B	100mm diameter heavy duty grey pipe class D	Lm	363.00		
C	50mm ditto	Lm	115.00		
D	40mmditto	Lm	53.00		
E	32mm ditto	Lm	152.00		
	<u>PVC and muPVC pipework</u>				
F	100mm diameter long radius bend	No	239.00		
G	32mm diameter bend	No	352.00		
H	32mm diameter sweep Tee	No	352.00		
I	100mm diameter sweep Tee	No	149.00		
J	50mm diameter sweep Tee	No	150.00		
K	40mm diameter sweep Tee	No	238.00		
L	100mm diameter access cap	No	343.00		
M	50mm diameter access cap	No	341.00		
N	40mm diameter access cap	No	343.00		
O	32mm diameter access cap	No	348.00		
P	40mm diameter bend	No	346.00		
Q	50mm diameter bend	No	172.00		
MHM/327	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	REPLACE THE FOLLOWING ITEMS AS DIRECTED BY THE PROJECT MANAGER				
A	100 mm diameter WC connector	No	197.00		
B	100mm diameter 4-way Floor trap and grating	No	109.00		
C	100mm floor gully complete with cover 100mm	No	24.00		
D	diameter vent cowl	No	7.00		
E F	100mm diameter weathering slate and apron	No	7.00		
G	Rehabilitation of Inspection Chamber(manhole) c/w Manhole covers	No	32.00		
H.	Rehabilitation of Internal Drainage systems	no	14.00		
I	Testing and commissioning the internal drainage installations	Item	2.00		
	Rehabilitation, Testing and commissioning the Entire External drainage installations	Item	2.00		
MH/328	Total carried forward to the collection page				

Item	Description	Qty	Qty	Rate	Amount
	<u>FIRE FIGHTING EQUIPMENT</u> Supply, deliver and install the following firefighting equipment in positions indicated on the contract drawings or as shall be instructed by the Engineer.				
A	Hose Reels 20mm diameter 30m long swimming type fire hose reel complete with delivery valve, mild steel feed pipe, isolation valve guide and all other accessories as "ANGUS FIRE ARMOUR" or equal and approved.	No.	14.00		
B	Hose Reel Pump Hose reel pump set mounted on a frame with a mild steel base plate. There shall be two pumps one duty the other standby each of duty 4.5m³/hr against 25m head Grundfos or approved equivalent. In addition there shall be a 24litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dry run, gate valves and non-return valves.	Set	2.00		
C	Control Panel Control panel for the above pumps with contactors, over voltage and under voltage protection relays, start/stop push buttons and indicators lights. All this shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated.	No.	2.00		
	PIPE WORK Supply, deliver and install galvanized mild steel pipes to BS 1387, class "B" Tenderers must allow in their pricing of pipework for all couplings, connectors, joints, unions etc. as required in running lengths of pipework. Also where necessary for pipe fixing clips, holderbats plugged or screwed.				
D E	GMS PIPE 50mm diameter gms pipe class "B"	Lm	390.00		
F	25mm diameter gms pipe class "B"	Lm	454.00		
	Bends 50mm diameter Bend	No	141.00		
MHM/329	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	25mm -ditto-	No	241.00		
B	50mm x25mm Reducer	No	234.00		
	50mm equal Tee	No	233.00		
C	Gate valve 50mm Gate valve	No	9.00		
D	25mm -ditto-	No	65.00		
E	50mm non return valve	No	9.00		
F	Unions 50mm diameter pipe unions	No	196.00		
G	25mm diameter pipe unions	No	124.00		
H	25mm air release valve	No	27.00		
I	50mm ditto	No	14.00		
J	Water/Carbon Dioxide Gas Fire Extinguisher 9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No	18.00		
K	Carbon dioxide Gas Fire Extinguisher 4.5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	18.00		
L	Dry Chemical Powder Fire Extinguisher 9kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	18.00		
M	Fire Notices Allow for fire signage for the hose reel system, fire exits and fire instructions as described in the particular specifications and to the Project Engineer's approval.	No	14.00		
N	9" (225mm) wall mounted manual alarm bell	No.	14.00		
MHM/330	Total carried forward to the collection page				

COLLECTION PAGE			
Item	Description	Total	
A	Total brought forward from page MHM/319		
B	Total brought forward from page MHM/320		
C	Total brought forward from page MHM/321		
D	Total brought forward from page MHM/322		
E	Total brought forward from page MHM/323		
F	Total brought forward from page MHM/324		
G	Total brought forward from page MHM/325		
H	Total brought forward from page MHM/326		
I	Total brought forward from page MHM/327		
J	Total brought forward from page MHM/328		
K	Total brought forward from page MHM/329		
L	Total brought forward from page MHM/330		
MHM/331	Total Cost for Sanitary Fittings, Plumbing works, Drainage works, and Fire Fighting Equipment for Mzima Hostels carried to Main Summary page		

MARERE HOSTELS:

**PLUMBING, DRAINAGE, SANITARY FITTINGS AND FIRE
PROTECTION WORKS**

Item	Description	Unit	Qty	Rate	Amount
A	DEMOLITIONS OF THE BATH TUBS Allow for the demolitions of all the existing bath tubs in the accommodation rooms and handover to the client	No.	-		
B.	DEMOLITIONS OF THE SANITARY FITTINGS Allow for careful demolitions of all the existing sanitary fittings in the washrooms and handover to the client	No	66.00		
C	DEMOLITIONS OF THE EXISTING PIPEWORK Allow for careful demolitions of all the existing pipework fittings and handover to the client	No	22.00		
D	SHOWER CUBICLES INSTALLATIONS Allow for the supply, delivery and installation of shower cubicles measuring 900mm x900mm X 2400mm high SANITARY FITTINGS Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Duravit products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings	No.	22.00		
E	Water Closet Duravit D-CODE Close Coupled WC suite in Vitreous China and approved colour comprising of WC bowl,'P' or 'S' trap connector, heavy duty matching seat and cover with metal top fixed chrome plated hinges and chrome plated push button with all the other necessary accessories.	No	22.00		
F	Wash Hand Basin PEDESTALS Twyford's "SOLA L.B.G/L" wash hand basin with no tap holes and chain stay hole cat. No. WB 1520WH, wall brackets cat no. SR 1315 xx complete with "lever action mixer fitting, 1/2 with swivel nozzle and divided flow" wall mounted mixer cat. no. SF 1099 CP, chrome grid waste 1 1/4" cat no. WF 4341 CP and white plastic bottle trap 1 1/4" P-trap cat. no.WF 8482 xx or approved equivalent.	No	22.00		
MRM/ 333	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Towel Rail Chrome plated towel rail 650mm long with the rail and brackets as one piece, all as Duravit or equal and approved.	No	22.00		
B	Soap Dish Semi recessed built in soap tray in Vitreous China of size: 305 x 150mm in approved colour as Duravit or equal and approved.	No	22.00		
D	Toilet roll holder Toilet roll holder in vitreous china to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to be as Duravit or equal and approved	No	22.00		
E	Mirrors 6mm thick polished plate glass, silver backed mirror with beveled edges, size 600 x 610mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	No	22.00		
MRM/334	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Robe hook Robe hook in vitreous china and in white colour mounted unto a concealed screw to wall wedges, to be as Duravit or approved equivalent.	No	22.00		
B	SHOWER FITTINGS Shower fittings c/w Instant electric shower head heater with embedded rod type sheathed element. Electrically insulated with electronic temperature control complete with wide rose and overflow to withstand a working pressure of up to 400kpa. It shall have a heating capacity of about 5.5kw and complete with extension shower arm and 4mm ² electric supply cable to neon lit DP switch, all to be as "Lorenzetti" or equal and approved	No	22.00		
MRM/ 335	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Persons with disability 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 ball valve, 3 /4" side overflow, plastics flush bend, 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 450 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. iii) Hinged support rail with toilet rolls holder 770mm long manufactured in nylon coated aluminum and mounted on a wall fixing plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.	Set	4.00		
MRM/336	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Water Mixer Taps 10 litres capacity under sink instantaneous water heater complete with 3.0kw electric heating element, externally adjustable capillary type thermostat, polyurethane form thermal insulation, corrosion-proof molding outer casing, mountings, water and electrical connections. The heater shall be as Ariston with power supply 3.0kw, 240/50Hz or equal and approved.	No	22.00		
MRM/337	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>INTERNAL PLUMBING</u> To supply and install Chlorinated Polyvinyl Chloride(CPVC) tubing and fittings which meet requirements of ASTM F442 as described. Tenderers must allow for jointings, clippings, couplings etc, necessary for the proper and satisfactory functioning of the installation when pricing. All joints shall assemble using solvent cements that meet or exceeds the requirement of ASTM F493 and to the Engineer's Approval. Rates must allow for all Metal/plastic threaded adaptors where required for connection of sanitary fixtures, valves etc CPVC PIPES				
A	15mm diameter CPVC pipe.	Lm	149.00		
B	20mm -Ditto-	Lm	96.00		
C	25mm -Ditto-	Lm	167.00		
D	32mm-Ditto-	Lm	155.00		
E	40mm-Ditto-	Lm	76.00		
F	50mm -Ditto-	Lm	82.00		
	Extra- over CPVC pipework for the following. Bends				
E	15mm bends	No	181.00		
F	20mm -Ditto-	No	164.00		
G	25mm -Ditto-	No	215.00		
H	32mm -Ditto-	No	162.00		
I	40mm -Ditto-	No	158.00		
J	50mm -Ditto-	No	101.00		
MRM/338	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>Threaded fittings</u>				
A	20x15mm dia. male threaded 90° bend	No	182.00		
B	25x15mm dia. male threaded 90° bend	No	179.00		
C	32x15mm dia. female threaded 90° bend	No	146.00		
D	40x15mm dia. female threaded 90° bend	No	103.00		
E	Equal tees	No	151.00		
	20mm equal tee				
F		No	185.00		
	25mm equal tee				
G		No	212.00		
	32mm -Ditto-				
H		No	144.00		
	40mm -Ditto-				
I		No	45.00		
	50mm -Ditto-				
	Reducers				
J	20x15mm reducer	No	238.00		
K	25x20mm -Ditto-	No	214.00		
L	32x25mm -Ditto-	No	144.00		
M	40x32mm -Ditto-	No	139.00		
N	50x40 mm -Ditto-	No	80.00		
	Gate valves				
O	50mm dia. 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 approved equivalent.	No	19.00		
P	40mm -ditto-				
		No	46.00		
Q	32mm -ditto-				
		No	52.00		
R	25mm -ditto-	No	83.00		
S	20mm -ditto-	No	113.00		
MRM/339	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	Plain Sockets				
A	50mm sockets	No	144.00		
B	40mm ditto	No	160.00		
C	32mm ditto	No	167.00		
D	25mm ditto	No	226.00		
E	Allow for water connection from existing water supply mains.	Item	1.00		
F	50 mm diameter pipe GI from existing supply pipe to the Existing buildings	Lm	165.00		
G	Excavation from existing supply pipe to the existing buildings to be renovated	Lm	297.00		
H	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	No	113.00		
	Water Storage Tank				
I	Supply, deliver and install vertical close end plastic molded tank of capacity 2,000 litres (652 gallons) and diameter 1550 x 1250mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a platform and shall be as ROTO Model or approved equivalent.	No	11.00		
J	Allow for pressure testing, flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.	Item	1.00		
MRM/340	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	INTERNAL DRAINAGE				
	All drainage pipes to be as 'Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes.				
	PVC and muPVC pipework				
		Lm	302.00		
A	100mm heavy-duty golden-brown pipe class D	Lm	218.00		
B	100mm diameter heavy duty grey pipe class D	Lm	69.00		
C	50mm ditto	Lm	32.00		
D	40mm ditto	Lm	92.00		
E	32mm ditto				
	PVC and muPVC pipework				
		No	144.00		
F	100mm diameter long radius bend	No	212.00		
G	32mm diameter bend	No	212.00		
H	32mm diameter sweep Tee	No	90.00		
I	100mm diameter sweep Tee	No	90.00		
J	50mm diameter sweep Tee	No	143.00		
K	40mm diameter sweep Tee	No	206.00		
L	100mm diameter access cap	No	205.00		
M	50mm diameter access cap	No	206.00		
N	40mm diameter access cap	No	209.00		
O	32mm diameter access cap	No	208.00		
P	40mm diameter bend	No	103.00		
Q	50mm diameter bend				
MRM/341	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	REPLACE THE FOLLOWING ITEMS AS DIRECTED BY THE PROJECT MANAGER				
A	100 mm diameter WC connector	No	119.00		
B	100mm diameter 4-way Floor trap and grating	No	66.00		
C	100mm floor gully complete with cover	No	14.00		
D	100mm diameter vent cowl	No	4.00		
E	100mm diameter weathering slate and apron	No	4.00		
F	Rehabilitation of Inspection Chamber(manhole) c/w Manhole covers	No	20.00		
G	Rehabilitation of Internal Drainage systems	no	8.00		
H.	Testing and commissioning the internal drainage installations	Item	1.00		
I	Rehabilitation, Testing and commissioning the Entire External drainage installations	Item	1.00		
MRM/342	Total carried forward to the collection page				

Item	Description	Qty	Qty	Rate	Amount
	<u>FIRE FIGHTING EQUIPMENT</u> Supply, deliver and install the following firefighting equipment in positions indicated on the contract drawings or as shall be instructed by the Engineer.				
A	Hose Reels 20mm diameter 30m long swimming type fire hose reel complete with delivery valve, mild steel feed pipe, isolation valve guide and all other accessories as "ANGUS FIRE ARMOUR" or equal and approved.	No.	8.00		
B	Hose Reel Pump Hose reel pump set mounted on a frame with a mild steel base plate. There shall be two pumps one duty the other standby each of duty 4.5m³/hr against 25m head Grundfos or approved equivalent. In addition, there shall be a 24litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dry run, gate valves and non-return valves.	Set	1.00		
C	Control Panel Control panel for the above pumps with contactors, over voltage and under voltage protection relays, start/stop push buttons and indicators lights. All this shall be housed in a lockable cabinet(with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated.	No.	1.00		
	PIPE WORK Supply, deliver and install galvanized mild steel pipes to BS 1387, class "B" Tenderers must allow in their pricing of pipework for all couplings, connectors, joints, unions etc as required in running lengths of pipework. Also where necessary for pipe fixing clips, holderbats plugged or screwed.				
	GMS PIPE				
D	50mm diameter gms pipe class "B"	Lm	234.00		
E	25mm diameter gms pipe class "B"	Lm	272.00		
F	Bends 50mm diameter Bend	No	85.00		
MRM/343	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	25mm -ditto-	No	145.00		
B	50mm x25mm Reducer	No	140.00		
C	50mm equal Tee	No	140.00		
	Gate valve				
D	50mm Gate valve	No	6.00		
E	25mm -ditto-	No	39.00		
F	50mm non return valve	No	6.00		
	Unions				
G	50mm diameter pipe unions	No	118.00		
H	25mm diameter pipe unions	No	74.00		
I	25mm air release valve	No	16.00		
J	50mm ditto	No	8.00		
	Water/Carbon Dioxide Gas Fire Extinguisher				
K	9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No	11.00		
	Carbon dioxide Gas Fire Extinguisher				
L	4.5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	11.00		
	Dry Chemical Powder Fire Extinguisher				
M	9kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	11.00		
	Fire Notices				
N	Allow for fire signage for the hose reel system, fire exits and fire instructions as as described in the particular specifications and to the Project Engineer's approval.	No	8.00		
	9" (225mm) wall mounted manual alarm bell	No.	8.00		
MRM/344	Total carried forward to the collection page				

COLLECTION PAGE			
Item	Description	Total	
A	Total brought forward from page MRM/333		
B	Total brought forward from page MRM/334		
C	Total brought forward from page MRM/335		
D	Total brought forward from page MRM/336		
E	Total brought forward from page MRM/337		
F	Total brought forward from page MRM/338		
G	Total brought forward from page MRM/339		
H	Total brought forward from page MRM/340		
I	Total brought forward from page MRM/341		
J	Total brought forward from page MRM/342		
K	Total brought forward from page MRM/343		
L	Total brought forward from page MRM/344		
MRM/345	Total Cost for Sanitary Fittings, Plumbing works, Drainage works, and Fire Fighting Equipment for Marere Hostel carried to Main Summary page		

STAFF QUARTERS AND OFFICE BLOCKS:
PLUMBING, DRAINAGE, SANITARY FITTINGS AND FIRE
PROTECTION WORKS

Item	Description	Unit	Qty	Rate	Amount
A	DEMOLITIONS OF THE BATH TUBS Allow for the demolitions of all the existing bath tubs in the accommodation rooms and handover to the client	No.	-		
B.	<u>DEMOLITIONS OF THE SANITARY FITTINGS</u> Allow for careful demolitions of all the existing sanitary fittings in the washrooms and handover to the client	No	90.00		
C	<u>DEMOLITIONS OF THE EXISTING PIPEWORK</u> Allow for careful demolitions of all the existing pipework fittings and handover to the client	No	30.00		
D	<u>SHOWER CUBICLES INSTALLATIONS</u> Allow for the supply, delivery and installation of shower cubicles measuring 900mm x900mm X 2400mm high <u>SANITARY FITTINGS</u> Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Duravit products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings	No.	30.00		
E	Water Closet Duravit D-CODE Close Coupled WC suite in Vitreous china and approved colour comprising of WC bowl,'P' or 'S' trap connector, heavy duty matching seat and cover with metal top fixed chrome plated hinges and chrome plated push button with all the other necessary accessories.	No	30.00		
F	Wash Hand Basin PEDESTALS Twyford's "SOLA L.B.G/L" wash hand basin with no tap holes and chain stay hole cat. No. WB 1520WH, wall brackets cat no. SR 1315 xx complete with "lever action mixer fitting, 1/2 with swivel nozzle and divided flow" wall mounted mixer cat. no. SF 1099 CP, chrome grid waste 1 1/4" cat no. WF 4341 CP and white plastic bottle trap 1 1/4" P-trap cat. no.WF 8482 xx or approved equivalent.	No	30.00		
SQM/347	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Towel Rail Chrome plated towel rail 650mm long with the rail and brackets as one piece, all as Duravit or equal and approved.	No	30.00		
B	Soap Dish Semi recessed built in soap tray in Vitreous China of size: 305 x 150mm in approved colour as Duravit or equal and approved.	No	30.00		
D	Toilet roll holder Toilet roll holder in vitreous china to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to be as Duravit or equal and approved	No	30.00		
E	Mirrors 6mm thick polished plate glass, silver backed mirror with beveled edges, size 600 x 610mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	No	30.00		
SQM/ 348	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Robe hook Robe hook in vitreous china and in white colour mounted unto a concealed screw to wall wedges, to be as Duravit or approved equivalent.	No	30.00		
B	SHOWER FITTINGS Shower fittings c/w Instant electric shower head heater with embedded rod type sheathed element. Electrically insulated with electronic temperature control complete with wide rose and overflow to withstand a working pressure of up to 400kpa. It shall have a heating capacity of about 5.5kw and complete with extension shower arm and 4mm2 electric supply cable to neon lit DP switch, all to be as "Lorenzetti" or equal and approved	No	30.00		
SQM/349	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Persons with disability 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 ball valve, 3 /4" side overflow, plastics flush bend, 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 450 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. iii) Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminum and mounted on a wall fixing plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.	Set	4.00		
SQM/350	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Water Mixer Taps 10 litres capacity under sink instantaneous water heater complete with 3.0kw electric heating element, externally adjustable capillary type thermostat, polyurethane form thermal insulation, corrosion-proof molding outer casing, mountings, water and electrical connections. The heater shall be as Ariston with power supply 3.0kw, 240/50Hz or equal and approved.	No	30.00		
SQM/351	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>INTERNAL PLUMBING</u> To supply and install Chlorinated Polyvinyl Chloride (CPVC) tubing and fittings which meet requirements of ASTM F442 as described. Tenderers must allow for jointings, clippings, couplings etc., necessary for the proper and satisfactory functioning of the installation when pricing. All joints shall assembled using solvent cements that meet or exceeds the requirement of ASTM F493 and to the Engineer's Approval. Rates must allow for all Metal/plastic threaded adaptors where required for connection of sanitary fixtures, valves etc CPVC PIPES A 15mm diameter CPVC pipe. Lm 167.00 B 20mm -Ditto- Lm 107.00 C 25mm -Ditto- Lm 187.00 D 32mm-Ditto- Lm 174.00 E 40mm-Ditto- Lm 85.00 F 50mm -Ditto- Lm 92.00 Extra- over CPVC pipework for the following. Bends E 15mm bends No 203.00 F 20mm -Ditto- No 184.00 G 25mm -Ditto- No 241.00 H 32mm -Ditto- No 181.00 I 40mm -Ditto- No 177.00 J 50mm -Ditto- No 113.00				
SQM/352	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>Threaded fittings</u>				
A	20x15mm dia. male threaded 90° bend	No	204.00		
B	25x15mm dia. male threaded 90° bend	No	200.00		
C	32x15mm dia. female threaded 90° bend	No	163.00		
D	40x15mm dia. female threaded 90° bend	No	115.00		
	Equal tees				
E	20mm equal tee	No	169.00		
F	25mm equal tee	No	208.00		
G	32mm -Ditto-	No	237.00		
H	40mm -Ditto-	No	161.00		
I	50mm -Ditto-	No	51.00		
	Reducers				
J	20x15mm reducer	No	267.00		
K	25x20mm -Ditto-	No	240.00		
L	32x25mm -Ditto-	No	161.00		
M	40x32mm -Ditto-	No	156.00		
N	50x40 mm -Ditto-	No	90.00		
	Gate valves				
O	50mm dia. 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 approved equivalent.	No	21.00		
P	40mm -ditto-	No	52.00		
Q	32mm -ditto-	No	58.00		
R	25mm -ditto-	No	93.00		
S	20mm -ditto-	No	126.00		
SQM/ 353	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	Plain Sockets				
A	50mm sockets	No	162.00		
B	40mm ditto	No	180.00		
C	32mm ditto	No	187.00		
D	25mm ditto	No	254.00		
E	Allow for water connection from existing water supply mains.	Item	1.00		
F	50 mm diameter pipe GI from existing supply pipe to the Existing buildings	Lm	185.00		
G	Excavation from existing supply pipe to the existing buildings to be renovated	Lm	333.00		
H	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	No	127.00		
	Water Storage Tank				
I	Supply, deliver and install vertical close end plastic molded tank of capacity 2,000 litres (652 gallons) and diameter 1550 x 1250mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a platform and shall be as ROTO Model or approved equivalent.	No	12.00		
J	Allow for pressure testing, flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.	Item	1.00		
SQM/354	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	INTERNAL DRAINAGE				
	All drainage pipes to be as 'Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes.				
	PVC and muPVC pipework				
		Lm	339.00		
A	100mm heavy duty golden brown pipe class D	Lm	245.00		
B	100mm diameter heavy duty grey pipe class D	Lm	77.00		
C	50mm ditto	Lm	36.00		
D	40mm ditto	Lm	103.00		
E	32mm ditto				
	PVC and muPVC pipework				
		No	161.00		
F	100mm diameter long radius bend	No	237.00		
G	32mm diameter bend	No	237.00		
H	32mm diameter sweep Tee	No	100.00		
I	100mm diameter sweep Tee	No	101.00		
J	50mm diameter sweep Tee	No	160.00		
K	40mm diameter sweep Tee	No	231.00		
L	100mm diameter access cap	No	230.00		
M	50mm diameter access cap	No	231.00		
N	40mm diameter access cap	No	234.00		
O	32mm diameter access cap	No	233.00		
P	40mm diameter bend	No	116.00		
Q	50mm diameter bend				
SQM/355	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	REPLACE THE FOLLOWING ITEMS AS DIRECTED BY THE PROJECT MANAGER				
A	100 mm diameter WC connector	No	133.00		
B	100mm diameter 4-way Floor trap and grating	No	74.00		
C	100mm floor gully complete with cover	No	16.00		
D	100mm diameter vent cowl	No	5.00		
E	100mm diameter weathering slate and apron	No	5.00		
F	Rehabilitation of Inspection Chamber(manhole) c/w Manhole covers	No	22.00		
G	Rehabilitation of Internal Drainage systems	no	9.00		
H.	Testing and commissioning the internal drainage installations	Item	1.00		
I	Rehabilitation, Testing and commissioning the Entire External drainage installations	Item	1.00		
SQM/356	Total carried forward to the collection page				

Item	Description	Qty	Qty	Rate	Amount
	<u>FIRE FIGHTING EQUIPMENT</u>				
	Supply, deliver and install the following firefighting equipment in positions indicated on the contract drawings or as shall be instructed by the Engineer.				
A	Hose Reels 20mm diameter 30m long swimming type fire hose reel complete with delivery valve, mild steel feed pipe, isolation valve guide and all other accessories as "ANGUS FIRE ARMOUR" or equal and approved.	No.	9.00		
B	Hose Reel Pump Hose reel pump set mounted on a frame with a mild steel base plate. There shall be two pumps one duty the other standby each of duty 4.5m³/hr against 25m head Grundfos or approved equivalent. In addition, there shall be a 24litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dry run, gate valves and non-return valves.	Set	1.00		
C	Control Panel Control panel for the above pumps with contactors, over voltage and under voltage protection relays, start/stop push buttons and indicators lights. All this shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated.	No.	1.00		
	PIPE WORK Supply, deliver and install galvanized mild steel pipes to BS 1387, class "B" Tenderers must allow in their pricing of pipework for all couplings, connectors, joints, unions etc as required in running lengths of pipework. Also where necessary for pipe fixing clips, holderbats plugged or screwed.				
	GMS PIPE				
D	50mm diameter gms pipe class "B"	Lm	262.00		
E	25mm diameter gms pipe class "B"	Lm	305.00		
F	Bends 50mm diameter Bend	No	95.00		
SQM/357	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	25mm -ditto-	No	163.00		
B	50mm x25mm Reducer	No	157.00		
C	50mm equal Tee	No	157.00		
	Gate valve				
D	50mm Gate valve	No	6.00		
E	25mm -ditto-	No	44.00		
F	50mm non return valve	No	6.00		
	Unions				
G	50mm diameter pipe unions	No	132.00		
H	25mm diameter pipe unions	No	83.00		
I	25mm air release valve	No	18.00		
J	50mm ditto	No	9.00		
	Water/Carbon Dioxide Gas Fire Extinguisher				
K	9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No	12.00		
	Carbon dioxide Gas Fire Extinguisher				
L	4.5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	12.00		
	Dry Chemical Powder Fire Extinguisher				
M	9kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	12.00		
	Fire Notices				
N	Allow for fire signage for the hose reel system, fire exits and fire instructions as described in the particular specifications and to the Project Engineer's approval.	No	9.00		
		No.	9.00		
N	9" (225mm) wall mounted manual alarm bell				
SQM/358	Total carried forward to the collection page				

COLLECTION PAGE			
Item	Description	Total	
A	Total brought forward from page 1		
B	Total brought forward from page 2		
C	Total brought forward from page 3		
D	Total brought forward from page 4		
E	Total brought forward from page 5		
F	Total brought forward from page 6		
G	Total brought forward from page 7		
H	Total brought forward from page 8		
I	Total brought forward from page 9		
J	Total brought forward from page10		
K	Total brought forward from page11		
L	Total brought forward from page12		
SQM/359	Total Cost for Sanitary Fittings, Plumbing works, Drainage works, and Fire Fighting Equipment for Staff Quarters and Office Blocks carried to Main Summary page		

ULTRA MODERN FACILITY

**PLUMBING, DRAINAGE, SANITARY FITTINGS AND FIRE
PROTECTION WORKS**

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
E B C	BILL No.1: Kitchen Works System Supply, deliver, install and fix the following equipment/items as described. Where trade names are mentioned, the tenderer must provide the same materials as other brands shall not be accepted without a written authority to supply alternative brands by the Mechanical Engineer.				
	Rehabilitate Existing Sanitary Fittings Allow for the repair of existing sanitary fittings in Washroom area; including W.H. B's, Urinals,. Showers, Cisterns & W. C's; and all the necessary plumbing and associated accessories; as per Engineer's specifications	4	sum		
	Ductwork Galvanized mild steel ductwork 1.2mm (SWG 18) thick complete with bends, transformation pieces, hangers, supports, sleeves, flexible connections, etc.	35	SM		
	Grease Filter Unit The grease filter unit consisting of a double-sided V-Bank housing with top exit for use in island canopy applications as "VOKES" DS 20/6 double sided V-Bank housing with top exit, complete with 6No. 508 x 508mm top exit washable type stainless steel filter panels. The unit shall have removable grease trays and framework made out of stainless steel. The filter shall be composed of folded woven metal material interspersed with layers of expanded metal mesh of stainless steel and shall be capable of filtering a total of 11088m ³ /hr. The filter panels shall be easily removable for washing as and when necessary.	2	No		
UMF/ 361	Total carried to Collection Page for Kitchen Extract System				

Item	Description	Qty	Unit	Rate (Kshs)	Cost (Kshs)
	Drain Tray				
F	Removable grease drip tray of 1.5mm polished aluminum sheet.	4	No		
	Volume Control Damper				
G	Volume control damper suitable for 750 x 750mm duct	10	No.		
H	Volume control damper suitable for 750 x 400mm duct	10	No.		
	External Grille				
I	900 x 900mm external louvered grille with fixed blades	10	No		
	Anti-vibrations Mounting				
J	Anti-vibrations mounting to isolate vibrations between the fan and the roof structure shall be able to withstand a load range of up to 23Kg per mounting and shall be as "WOODS" part No. 76518 or equal and approved.	12	No.		
	Control Panel				
K	Splash proof control panel manufactured from 1.2mm thick sheet with stove enamel finish and clear perplex front cover. The panel shall incorporate isolator contactor phase failure relay, motor starter, overload relay and overheat safety control and fuses. The control panel to include BMS stop/run and fault indication volt-free contact and any other BMS connections.	2	No		
	Fire Damper				
L	Shutter fire damper complete with fusible link and micro switch for de-activating the fan when damper closes suitable for a duct size 750 x 400mm	10	No		
	Light Fitting				
M	65W vapor proof light fittings	2	No		
	Electrical Works				
N	Allow for electrical works including but not limited to wiring and conduits from the local isolator provided by others within 2metres in the machine room to the control panel, condenser and evaporator. It shall include a push and turn safety switch near the fan for isolation during servicing and maintenance.	2	item		
	Sealing and Waterproofing Works				
9.15	Allow for fixing of fan, sealing and water proofing of the exit area of duct through the roof.	2	Item		
UMF/362	Total carried to Collection Page for Kitchen Extract System				

Item	Description	Qty	Unit	Rate (Kshs)	Cost (Kshs)
A	REHABILITATE Wall Mounted Extract Fan Wall mounted extract fan capable of at least 1450m³/hr and having sound pressure level of not more than 50dba at 3 meters. It shall be complete with front cover, on/off switch, long length ladder strips, exterior protective grille, wall kit, panel fixing clips, internal louver grille and back draught shutter. The fans will be controlled through a wired control panel as Xpelair fan controller model EC6H or approved equivalent. The fan will be flush mounted into the wall. It shall be as Xpelair GX12 or approved equivalent.	2	No.		
B	Testing and Commissioning Allow for setting to work, testing and commissioning of the kitchen extract installation to the satisfaction of the Project Engineer	2	Item		
UMF/363	Total carried to Collection Page for Kitchen Extract System				

Item	Description	Total Cost (Kshs)
A	Total cost from page UMF/361	
B	Total cost from page UMF/362	
C	Total cost from UMF/363	
UMF/364	Total Cost for Kitchen Extract System Works Carried Forward to Summary Page	

Item	Description	Qty	Unit	Rate (Kshs)	Cost (Kshs)
A	Kitchen Cold-room and Freezer Installation				
	4.0Kw evaporator unit.				
	Supply and install Evaporator cooling unit operating on refrigerant R134a or R404a CFC-free and to be complete with blower fans, motors and defrost heater. The unit to be as "Gunter" or equal and approved.	2	No.		
B	Semi-hermetic condensing unit				
	To have capacity matching Item A above. To be as "BITZER" or equal and approved.	2	No.		
C	Cold-room Door.				
	Supply and install an insulated cold room door size 1800 x 900 x 175mm. Complete with the following; -				
	(i) 20mm diameter rubber seals on door edges, (ii) light sensor to switch off internal lighting when the door is closed.	2	No.		
	(iii) Inside release door lock.				
D	Cold-room Roof and Wall Panels.				
	Supply and install complete wall and roof cold room panels made of 18 SWG Aluminum sheeting with 100mm thick insulation materials (sandwich) and related accessories	98	SM		
	Cold-room Floor.				
E	Supply and install floor non-slip and waterproof cold room panels made of 10SWG heavy duty Aluminum chequered with 100mm thick insulation material (sandwich) and related accessories	90	SM		
	Control panel				
F	Supply and install a fully wired electrical control panel made of mild steel and anodized. To be complete with contactors, timers and all other accessories necessary for the automatic operation of the coldstore. Other accessories to include but not restricted to:-	2	No.		
	Starter, Indicator lights indicating "compressor running",				
	Indicator light indicating compressor trip and Indicator light indicating "defrost cycle in progress"				
	Accessories				
G	Allow for accessories to include aluminum angle line, pop rivets, self-tapping screws, silicon sealant, uprofile	item	item		
	galvanized plain sheet 16G to hold the panels and pufoam sealant				
H	Meat rail				
	80mm diameter galvanized mild steel rail, 4.2m long	24	No.		
I	complete with 12No.stainless steel meat hooks.				
	Fruit Rack				
UMF/365	Total carried to Collection Page for Cold-room				

Item	Description	Qty	Unit	Rate (Kshs)	Cost (Kshs)
	<u>Kitchen COOLING SYSTEM</u>				
	<u>Floor Finishes</u>				
H	<u>Screed; cement and sand (1:3)</u> 40mm thick one coat backings; wood floated; smooth trowelled; to concrete or blockwork base; to floors level; internal				
		390	sm		
G	Allow for the repair of existing roof tank; including associated piping and accessories	2	sum		
G	Accessories Allow for accessories to include aluminum angle line, pop rivets, self-tapping screws, silicon sealant, upprofile galvanized plain sheet 16G to hold the panels and pufoam sealant	item	item		
H	Meat rail 80mm diameter galvanized mild steel rail, 4.2m long complete with stainless steel meat hooks.	23	item		
UMF/ 366	Total carried to Collection Page for Cold-room				

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	The following Refrigeration Controls. (All refrigeration controls shall be as DANFOSS or equal and approved).				
A	Room Thermostat to cut compressor in and out, depending on the room temperature.	1	No.		
B	Dial Thermometer range -4° to 50 °C	1	No.		
C	Thermostatic Expansion Valve	1	No.		
D	15mm Solenoid valve	1	No.		
E	15mm Filter drier	1	No.		
F	LP/HP Cut – out switch complete with High/Low pressure gauge	1	No.		
G	15mm Sight glass	1	No.		
	<u>To Also allow for the following:-</u>				
H	Anti-Vibration Mountings for the equipment as WOODS P.N.50417 or equal and approved.	1	set		
I	Supply and install refrigeration piping consisting of copper tubing for both liquid and gas line, insulated externally with Armaflex which shall be held securely to the pipe.	80	Lm		
J	Supply and install 25mm diameter PVC high pressure insulated condensate drain pipe work to discharge into the nearest gully trap from the cold room equipment.	26	Lm		
K	65W vapor proof light fittings	6	No.		
L	Allow for the charging of the refrigeration system with necessary amount of refrigerant for initial testing and eventual operation of the cold store.	1	item		
N	Aluminum powder coated door louver of size 400 x 300mm to be mounted on the door of vegetable store.	10	No.		
O	Associated electrical works including but not limited to installing individual cold room machine isolator as a safety measure when machines are being serviced, connection from isolator/consumer unit to cold room machines, including wiring and conduits through control panel.	2	item		
P	Testing and commissioning Allow for Testing and commissioning of the Kitchen cold room installation to the satisfaction of the Engineer	2	item		
UMF/367	Total carried to Collection Page for Cold-room				

Item	Description	Total Cost (Kshs)
A	Total cost from page UMF/365	
A	Total cost from page UMF/366	
B	Total cost from page UMF/367	
UMF/368	Total Cost for Kitchen Cold-room Works Carried Forward to Summary Page	

Item	Description	Units	Qty	Rates (Kshs.)	Costs (Kshs)
A	Allow for the repair including fixing of mild steel panel				
	double-door; including fixing SHS intermediate members;				
	and Associated Works	2	sum		
B	Clean and repair Stainless steel worktop 2,500mm long with grid shelf	No	2		
C	Inspect and service Potato peeler (25 Kg/ charge)	No	2		
D	Rehabilitate and service Dial indicator bench scale (0-25kg)	No	2		
E	Repair Single bowl single drainer (SBSD) stainless steel sink on stand	No	2		
F	Repair Baine Marie/Hot cupboard (1500mm long)	No	2		
G	36 Litres Milk urn	No	2		
H	36 Litres Coffee/Tea urn	No	2		
I	16,000 volts Insectocutor	No	2		
L	Bottle cooler 1200 x 500 x 850mm	No	2		
M	Chopping board as "teflon" 450 x 450 x 40mm thick	No	2		
N	Allow for setting to work, testing and commisioning	Item	Sum		
UMF/ 369	Total Cost for Servicing Kitchen Equipment Carried Forward to Summary Page				

Item	Description	Units	Qty	Rates (Kshs.)	
	Supply, install, test and commission the following: -				
	<u>PIPEWORK AND FITTINGS</u>				
	Prices for pipework shall include the cost for coupling connectors, fixing brackets and plugs, (timber plugs not accepted) and jointing to fittings etc., including jointing tapes, compounds etc., together with fixing pipe sleeves and the necessary builders work, all as required in the pipework installation.				
	<u>Heavy gauge galvanized mild steel pipes and fittings to B.S. 1387, 1740 and/or B.S. 143</u>				
A	32mm horizontal pipe in wall chase or buried in trench/ floor screed, with bituminous coatings	Lm	28		
B	25mm ditto	Lm	72		
C	15mm ditto	Lm	36		
D	Extra Over Pipework for:				
E	25mm bend	No	32		
F	15mm ditto	No	26		
G	25mm Tee	No	22		
H	20 x 15mm reducers	No	22		
I	25mm L.P. Gas shut off valve quarter turn type with yellow handle and B.S. threaded of approved manufacturer	No	2		
J	25mm Non return Valve	No	2		
K	<u>LPG Gas Supply Manifold</u>				
	50mm x approx. 4 M long class C gms L.P. Gas manifold with 1 No. 20mm inlet and 3 No.15mm outlets	No	2		
	32mm x approx. 4 M long class C gms L.P. Gas manifold with 1 No. 20mm outlet and 3 No.15mm inlets	No	2		
	<u>Copper tubes to B.S 2871 Part 1 with Brass Capillary or compression fittings to B.S. 864:1983</u>				
L	6/8mm copper/15 g.m.s straight coupling adaptors	No	8		
UMF/370	Total Cost For L.P.Gas Carried Foward to Collection page				

Item	Description	Units	Qty	Rates (Kshs.)	Costs (Kshs)
A	<u>Gas Outlets and Accessories</u>				
	Isolating valves for kitchen equipment L.P. Gas supply with 6/8mm diameter 500mm long copper pipe				
	connectors and connection to the equipment.	No	20		
B	<u>Regulators</u>				
	Automatic changer over valve to incorporate Pressure regulator to reduce to 37mBar as Rego or equal and approved connected to 32mm manifold	No	2		
	<u>L.P. Gas Cylinder</u>				
D	Supply, install, test and commission the following: -				
	Allow for filling the cylinders with the initial full-capacity of LPG from approved suppliers.	Kg	800		
	Supply and install a no-smoking sign with the writing L.P. GAS: NO SMOKING OR NAKED LIGHTS in min 65 mm high letters on a 1.2 mm thick mild steel plate written on both sides with red letters on white back-ground. All painting to be gloss paint over primer, and sign - plate to be conspicuously positioned / fixed on the room door.	Item	2		
F	50kg LP Gas cylinders with initial gas and Manual change over from cylinders to bulk storage tank	No.	2		
	Allow for setting to work, testing and commissioning	Item	Sum		
G					
UMF/371	Total Cost For L.P.Gas Carried Foward to Collection page				

Item	Description	Costs (Kshs)
	<u>COLLECTION PAGE</u>	
A	Brought forward from page UMF/370	
B	Brought forward from page UMF/371	
UMF/372	Total for L.P.Gas carried forward to Price Summary page	

NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT KSH
A	<u>WASHER EXTRACTOR 30KG</u>				
	High Speed heavy duty industrial type washer extractor maximum capacity 30Kg per min conforming to technical specification as detailed in the particular specification in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (mandatory)	2	No.		
B	<u>WASHER EXTRACTOR 65KG</u>				
	High Speed heavy duty industrial type washer extractor maximum capacity 65Kg per min conforming to technical specification as detailed in the particular specification in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (mandatory)	2	No.		
C	<u>TILTING WASHER EXTRACTOR 120KG</u>				
	High Speed heavy duty industrial type washer extractor maximum capacity 120Kg per min conforming to technical specification as detailed in the particular specification in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (mandatory)	2	No.		
D	<u>TUMBLER DRIER 100KG</u>				
	Heavy duty industrial type tumbler drier washing capacity 100kg dry weight. The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	2	No.		
E	<u>TUMBLER DRIER 54KG</u>				
	Heavy duty industrial type tumbler drier washing capacity 54kg dry weight. The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	2	No.		
F	<u>FOLDER</u>				
	Heavy duty industrial type folder 3300mm. The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	2	No.		
UMF/ 373	Total cost carried to laundry Equipment Installation Collection page				

NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT KSH
A	<u>OZONE GENERATOR</u>				
	Ozone Generator Heavy duty industrial type 5/10 grammes. The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	6	No.		
B	<u>SHELF TROLLEY</u>				
	Shelf Trolley Heavy duty industrial type. The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	3	No.		
C	<u>WET TROLLEY</u>				
	Wet Trolley Heavy duty industrial type. The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	3	No.		
D	<u>PRE- WASH TABLE</u>				
	Pre Wash Table duty industrial type. The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	3	No.		
E	<u>SS STORAGE RACK</u>				
	SS Storage Rack duty industrial type. The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	2	No.		
F	<u>HEAVY DUTY INDUSTRIAL FLAT WORK IRONER</u> Heavy duty industrial type flat work Ironer with fixed roll and mobile chest technology of heating capacity 75kW- 90kW. Diameter of 800mm, Length 2500mm - 3300mm, ironing speed between 3 to 12m/min. The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	2	No.		
G	<u>Hand operated Ironer</u> Hand operated ironer thermostically operated power rating 240V,50Hz, 1.5kw.The technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure the catalogue of the machine to be supplied is attached (Mandatory)	2	No.		
UMF/ 374	Total cost carried to laundry Equipment Installation Collection page				

NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT KSH
A	Vacuum Ironing Table				
	Vacuum Ironing Table thermostically operated power				
	complete with steam generator boiler and compressor. The				
	technical specification to be as those specified in the particular specifications in the document. Tenderer to ensure	2	No.		
	the catalogue of the machine to be supplied is attached				
	(Mandatory)				
B	Hand operated Ironer				
	Hand operated ironer thermostically operated power rating	2	No.		
	240V,50Hz, 1.5kw				
C	Weighing scale				
	High precision Digital weighing scale range – 0-300kg on a				
	stainless steel column and complete with its platform size	2	No.		
	60x80cm				
	Sewing Machine				
D	Electrically operated heavy duty sewing machine, of high speed. Tenderer to ensure the catalogue of the machine to be supplied is attached (mandatory). Sorting basket	2	No.		
	Sorting basket overall capacity 60kg of dry weight complete with internal canvas.				
E	Tenderer to ensure the catalogue of the machine to be supplied is attached (mandatory).	2	No.		
E	ASSOCIATED BUILDERS' WORKS	1	Item		
F	ALLOW FOR PLUMBING & DRAINAGE WORKS	1	Item		
UMF/375	Total cost carried to laundry Equipment Installation Collection page				

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT KSH
A	CPVC Pipe 80mm	78	No.		
B	Ditto 65mm	86	No.		
C	Ditto 50mm	98	No.		
D	Ditto 40mm	77	No.		
	<u>Unions</u>				
	100mm	18	No		
E	80mm	24	No		
F	65mm	64	No		
G	50mm	18	No		
	<u>Valves</u>				
H	100mm ditto	4	No		
	80mm isolating valve	4	No		
I	65mm ditto	4	No		
J	50mm ditto	6	No		
K	20mm ditto	6	No		
L	100mm flanged non- return valve	6	No		
	50mm non- return valve	4	No		
M	40mm medium pressure ball valve	8	No		
N	<u>Flanged nipples</u>				
O	150mm double flanged nipple	8	No.		
P	100mm ditto	8	No.		
	<u>Connectors</u>				
R	100mm	4	No.		
	<u>Plug</u>				
S	50mm end plug	12	No.		
	100mm ditto	6	No.		
T	Drainage Works - Rehabilitation				
U	Prepare an open drain channel size 300x300mmx300mm				
V	deep and connect to existing open channel to specifications	240	LM		
	Drying Area works				
	Excavate to remove top soil to a deep of 300mm with murrum and back fill and compact to structural Engineer's approval	220	CM		
W	Reinforced				
	Concrete post spaced at intervals of 3M (150mmx150mmx2000mm with specially designed hanging hooks.	80	No.		
X	Test and commission all the machines to the satisfaction of the project manager (provide detergent for testing and commissioning)	1	Item		
UMF/376	Total cost carried to Hydrant Installation Collection page				

ITEM No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT KSH
	Total cost brought from Collection page				
A	<u>Pipe work</u> 80mm above ground Pipe	4	No.		
B	<u>Valve chamber</u> Construct Masonry valve chamber of size 300x 300x 300 mm deep with lockable cast iron cover for pipes of diameters not exceeding 100mm.	4	No.		
C	<u>Excavation</u> Excavate trench in hard soil/ murrum for depth not exceeding 750mm deep for pipes of 100 & 80mm diameters and make good as before.	200	LM		
D	<u>Water booster pump</u> LOL/Switch head of 15metres. The pump to the as grandfos H25 equal and approved and complete with all the necessary attachments.	2	Item		
E.	ROOF VENTILATORS Allow for Installation of Roof Ventilators also known as wind turbines to allow for the natural cross air circulation c/w all the required accessories	10	Item		
	<u>Elevated water tank Plastic</u> Water storage tank nominal capacity 10,000litres mounted to existing platform. The tank has to be supplied complete with inflow, outflow and scour pipe	1	Item		
	<u>Testing and Commissioning</u>				
D	Allow for testing and commissioning of the external fire hydrant installation to satisfaction of the Engineer.	1	Item		
UMF/ 377	Total cost carried to Hydrant Collection page				

ITEM No.	DESCRIPTION	AMOUNT KSH
A	Total cost brought forward from page UMF/373	
B	Total cost brought forward from page UMF/374	
C	Total cost brought forward from page UMF/375	
D	Total cost brought forward from page UMF/377	
UMF/378	Total for Laundry Works System and Associated Installations carried forward to price summary page	

Item	Description	Unit	Qty	Rate	Amount
	SANITARY FITTINGS Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Duravit products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. No. is intended only as a guide to the type and quality of fittings				
A	Water Closet Duravit D-CODE Close Coupled WC suite in Vitreous china and approved colour comprising of WC bowl,'P' or 'S' trap connector, heavy duty matching seat and cover with metal top fixed chrome plated hinges and chrome plated push button with all the other necessary accessories.	No	34		
B	Wash handbasin Duravit D-CODE wash basin set for counter top fixing in white vitreous china with overflow and single tap hole size 520 x 420 x1850mm and comprising of Ref No. 327566..0 basin, 1No. Chrome plated mixer tap with chrome plated waste extension pipe and wall flange, silicon sealant, and fixings to approval	No	34		
F	EXPOSED FLUSH VALVES Exposed flush valves (Chrome plated) with a running pressure of 3bars at valve outlet flow regulator, flush bend and water closet inlet and outlet connector outlet	No	34		
D	Kitchen Sink Double bowl, double drainer stainless steel kitchen sink of size 1800 x 600mm as manufactured by ASL . The bowl size to be 430 x 420 x 200mm deep complete with chrome plated 40mm waste fittings, plugs, chain stays, overflow, 1No. 15mm diameter chrome plated sink mixer with over-arm swivel spout as Cobra model 166/04 with carina handles, chrome plated bottle trap with 75mm deep seal and chain waste fitting.	No	6		
UMF/379	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Soap Dish Semi recessed built in soap tray in Vitreous China of size: 305 x 150mm in approved colour as Duravit or equal and approved.	No	12		
B	Hand/face driers Automatic hand drier in approved color, 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 2.1kw and performance flow rate of 135cfm (3.82m3/min) and to be of size 270x264x143mm deep as WANDSWORTH BUNNIE Model HDZ or approved equivalent.	NO	12		
C	Mirrors 6mm thick polished plate glass, silver backed mirror with beveled edges, size 600 x 610mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	No	32		
UMF/380	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	Robe hook	No	34		
	Robe hook in vitreous china and in white colour mounted unto a concealed screw to wall wedges, to be as Duravit or approved equivalent.				
	SHOWER FITTINGS	No	34		
	Shower fittings c/w Instant electric shower head heater with embedded rod type sheathed element. Electrically insulated with electronic temperature control complete with wide rose and overflow to withstand a working pressure of upto 400kpa. It shall have a heating capacity of about 5.5kw and complete with extension shower arm and 4mm ² electric supply cable to neon lit DP switch, all to be as "Lorenzetti" or equal and approved.				
	Instant electric shower head heater with embedded rod type sheathed element. Electrically insulated with electronic temperature control complete with wide rose and overflow to withstand a working pressure of upto 400kpa. It shall have a heating capacity of about 5.5kw and complete with extension shower arm and 4mm ² electric supply cable to neon lit DP switch, all to be as "Lorenzetti" or equal and approved	No	34		
	Undersink Heater	No	6		
	10 litres capacity under sink instantaneous water heater complete with 3.0kw electric heating element, externally adjustable capillary type thermostat, polyurethane form thermal insulation, corrosion-proof molding outer casing, mountings, water and electrical connections. The heater shall be as Ariston with power supply 3.0kw, 240/50Hz or equal and approved.				
	Persons with disability W.C and W.H Basin Facility	Set	4		
	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 ball valve, 3 /4" side overflow, plastics flush bend, 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 450 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 w fixing bolts. iii) Hinged support rail with aste with height adjustable trap, pedestal and wall toilet roll holder 770mm long manufactured in nylon coated aluminum and mounted on a wall fixing plate plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.				
UMF/381	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>INTERNAL PLUMBING FOR HOT AND COLD WATER SYSTEMS</u>				
	To supply and install Chlorinated Polyvinyl Chloride(CPVC) tubing and fittings which meet requirements of ASTM F442 as described. Tenderers must allow for jointing ,clippings, couplings etc, necessary for the proper and satisfactory functioning of the installation when pricing. All joints shall assembled using solvent cements that meet or exceeds the requirement of ASTM F493 and to the Engineer's Approval. Rates must allow for all Metal/plastic threaded adaptors where required for connection of sanitary fixtures, valves etc				
A	CPVC PIPES				
B	15mm diameter CPVC pipe.	Lm	235		
C	20mm -Ditto-	Lm	144		
D	25mm -Ditto-	Lm	152		
E	32mm -Ditto-	Lm	139		
F	40mm -Ditto-	Lm	114		
	50mm -Ditto-	Lm	124		
	Extra- over CPVC pipework for the following.				
E	Bends				
F	15mm bends	No	169		
G	20mm -Ditto-	No	186		
H	25mm -Ditto-	No	178		
I	32mm -Ditto-	No	164		
J	40mm -Ditto-	No	188		
	50mm -Ditto-	No	174		
UMF/382	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	<u>Threaded fittings</u>				
A	20x15mm dia. male threaded 90° bend	No	185		
B	25x15mm dia. male threaded 90° bend	No	190		
C	32x15mm dia. female threaded 90° bend	No	180		
D	40x15mm dia. female threaded 90° bend	No	195		
	Equal tees				
E	20mm equal tee	No	118		
F	25mm equal tee	No	130		
G	32mm -Ditto-	No	110		
H	40mm -Ditto-	No	112		
I	50mm -Ditto-	No	112		
J	Reducers				
	20x15mm reducer	No	120		
	25x20mm -Ditto-	No	113		
K	32x25mm -Ditto-	No	178		
L	40x32mm -Ditto-	No	110		
M	50x40 mm -Ditto-	No	112		
N					
O					
	Gate valves				
	50mm dia. 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 approved equivalent.	No	34		
	40mm -ditto-	No	28		
	32mm -ditto-	No	28		
P	25mm -ditto-	No	26		
Q	20mm -ditto-	No	26		
R					
S					
UMF/383	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	Plain Sockets				
A	50mm sockets	No	18		
B	40mm ditto	No	82		
C	32mm ditto	No	82		
D	25mm ditto	No	120		
F	Allow for water connection from existing water supply mains.	Item	1		
G	50 mm diameter pipe GI from existing supply pipe to the new building	Lm	218		
H	Excavation from existing supply pipe to the new building	Lm	218		
I	15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	No	112		
	Water Storage Tank				
J	Supply, deliver and install vertical close end plastic moulded tank of capacity 5,000 litres (652 gallons) and diameter 1550 x 1250mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a platform and shall be as ROTO Model or approved equivalent.	No	4		
	Allow for pressure testing, flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.	Item	1		
UMF/384	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
	INTERNAL DRAINAGE All drainage pipes to be as 'Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes. PVC and muPVC pipework				
A	100mm heavy duty golden brown pipe class D	Lm	125		
B	100mm diameter heavy duty grey pipe class D	Lm	124		
C	50mm ditto	Lm	118		
D	40mm ditto	Lm	118		
E	32mm ditto	Lm	114		
	PVC and muPVC pipework				
F	100mm diameter long radius bend	No	145		
G	32mm diameter bend	No	160		
H	32mm diameter sweep Tee	No	180		
I	100mm diameter sweep Tee	No	134		
J	50mm diameter sweep Tee	No	136		
K	40mm diameter sweep Tee	No	87		
L	100mm diameter access cap	No	90		
M	50mm diameter access cap	No	110		
N	40mm diameter access cap	No	116		
O	32mm diameter access cap	No	116		
P	40mm diameter bend	No	114		
Q	50mm diameter bend	No	110		
UMF/ 385	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	100 mm diameter WC connector	No	36		
B	100mm diameter 4-way Floor trap and grating	No	24		
C	100mm floor gully complete with cover	No	25		
D	100mm diameter vent cowl	No	4		
E	100mm diameter weathering slate and apron	No	4		
F	Inspection Chamber(manhole)	No	19		
G	Testing and commissioning the internal drainage installations	Item	1		
UMF/386	Total carried forward to the collection page				

Item	Description	Qty	Unit	Rate	Amount
A	<u>FIRE FIGHTING EQUIPMENT</u> Supply, deliver and install the following firefighting equipment in positions indicated on the contract drawings or as shall be instructed by the Engineer.				
B	Hose Reel Pump Hose reel pumpset mounted on a frame with a mild steel base plate. There shall be two pumps one duty the other standby each of duty 4.5m³/hr against 25m head Grundfos or approved equivalent. In addition there shall be a 60litres diaphragm pressure vessel (as Varem or approved equivalent), pressure switches, a switch to protect dry run, gate valves and non-return valves.	Set	1		
C	Control Panel Control panel for the above pumps with contactors, over voltage and under voltage protection relays, start/stop push buttons and indicators lights. All this shall be housed in a lockable cabinet(with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated.	No.	1		
	PIPE WORK Supply, deliver and install galvanized mild steel pipes to BS 1387, class "B" Tenderers must allow in their pricing of pipework for all couplings, connectors, joints, unions etc as required in running lengths of pipework. Also where necessary for pipe fixing clips, holderbats plugged or screwed.				
D	GMS PIPE 50mm diameter gms pipe class "B"	Lm	254		
E	25mm diameter gms pipe class "B"	Lm	112		
F	Bends 50mm diameter Bend	No	18		
UMF/387	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	25mm -ditto-	No	119		
B	50mm x25mm Reducer	No	112		
C	50mm equal Tee	No	110		
D	Gate valve	No	84		
E	50mm Gate valve				
F	25mm -ditto-	No	19		
	50mm non return valve	No	18		
G	Unions	No	13		
	50mm diameter pipe unions				
H	25mm diameter pipe unions	No	16		
I					
J	25mm air release valve	No	8		
	50mm ditto	No	12		
UMF/388	Total carried forward to the collection page				

Item	Description	Unit	Qty	Rate	Amount
A	Water/Carbon Dioxide Gas Fire Extinguisher 9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No	12		
B	Carbon dioxide Gas Fire Extinguisher 4.5 Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting	No.	12		
C	Dry Chemical Powder Fire Extinguisher 9kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	12		
D	Fire BLANKET Allow for fire Blanket made of cloth woven with preasbestos as described in the particular specifications and to the Project Engineer's approval.	No	14		
E	Fire Notices Allow for fire signage for the hose reel system, fire exits and fire instructions as described in the particular specifications and to the Project Engineer's approval.	No	48		
F	9" (225mm) wall mounted manual alarm bell	No.	16		
G	2000mm x 3500mm central fire cubical complete with enclosure and fixing brackets with assorted equipment	No	8		
UMF/389	Total carried forward to the collection page				

COLLECTION PAGE			
Item	Description	Total	
A	Total brought forward from page UMF/379		
B	Total brought forward from page UMF/380		
C	Total brought forward from page UMF/381		
D	Total brought forward from page UMF/382		
E	Total brought forward from page UMF/383		
F	Total brought forward from page UMF/384		
G	Total brought forward from page UMF/385		
H	Total brought forward from page UMF/386		
I	Total brought forward from page UMF/387		
J	Total brought forward from page UMF/388		
K	Total brought forward from page UMF/389		
UMF/390	Total Cost for Sanitary Fittings, Plumbing works, Drainage works, and Fire Fighting Equipment carried to Main Summary page		

AIRCONDITIONING & MECHANICAL VENTILATION

Ite	Description	Qty	Unit	Rate	Amount (Kshs.)
A	AIR CONDITIONING & VENTILATION WORKS Supply and deliver and install the following as described. Air Handling Unit Single Packed (self contained) air cooled conditioner capable of cooling loads of up to 21kW and reversible heating capacity with airflow of 1.5m³/s complete with its accessories as TRANE TCD/WCD 120 or equal and approved. It shall have washable pre-filters to trap 20micron particles with 90% efficiency, motor/compressor protective devices and phase failure protection.	2	No		
B	Silencers Splitter silencer casing constructed from cold formed pre-galvanized sheet steel and absorbent of acoustic grade resin bonded mineral fiber with erosion resistant lining. The silencer shall be fitted to achieve specific levels of NC 25 as " woods splitter type" or approved equal.	8	No		
C	Room Thermostat An analogue room thermostat to control the room temperature of 23°C ± 1°C. As York or approved approved equivalent.	8	No		
D	Absolute Filters Absolute filters in metal panels capable of 1.5 m³/s of air with pressure drop of 250Pa and very high performance efficiency of 99.99% NAC1 as Vokes filter type V40, class H13, complete with mounting housing or equal and approved filter size 762x610x292mm.	16	No		
E	Fresh Air Pre-Filters Washable and re-useable prefilters in metal panels of size 592 x 592 x 100mm thick and capable of 1.5m³/s of air with a pressure drop of 150Pa and efficiency of 85% ASHRAE as "Vokes F7-610" or equal and approved.	16	No		
ACM/392	Total carried forward to Collection page				

Ite	Description	Qty	Unit	Rate	Amount (Kshs.)
A	Air supply diffusers 4-way laminar flow ceiling diffuser size 350x350mm set to discharge 0.4m³/s with a velocity of 3.0m/s.	24	No		
B	Extract Grilles 4-way ceiling mounted air extract registers as "Myson" fixed blade louvers with an airflow rate of 0.35m³/s	36	No		
C	PAL Ductwork PAL duct work 0.8 mm thick (SWG 22) complete with bends, hangers support, sleeves, flexible connectors, branch duct take offs, flanges, access doors, test reducers, splitters, turning vanes and accessories all painted both externally and internally with suitable walt black paint.	1796	SM		
D	Duct work thermal/ acoustic insulation 25mm thick attenuated fiber glass or polystyrene bonded with thermal setting frame with suitable lining outside of extract air duct work to act as thermal/ acoustic insulation	254	SM		
E	Balancing dampers Control dampers size 350x350mm with a galvanized steel frame of 80mm deep and blades of 50mm pitch as "FLOWLINE" or equal and approved.	18	No		
F	Flexible Connection The flexible connection shall be rubber bellows or neoprene and not canvas to isolate vibrations from the air conditioning unit or fans from the interconnecting duct work.	6	Item		
G	Extract Fan Extract Fans capable of volume flow rate of 1.5m³/s against a pressure drop of 150Pa fan to be an aero foil axial flow fan compete with supports flexible connections and anti-vibrations mountings. As "woods aero foil axial flow" running speed 1420 rpm or equal and approved. Power input to be 0.2kW max.	6	No		
ACM/393	Total carried forward to Collection page				

Item	Description	Qty	Unit	Rate	Amount (Kshs.)
A	Supply fan Supply fan capable of a volume flow rate of 1.5m ³ /s against a pressure from of 300Pa. Fan to be a aerofoil axial flow fan complete with supports, flexible connections and anti-vibrations mountings. As "WOODS" aerofoil axial flow type 35JM/16/2/5/14 running at speed 2800 rpm or equal and approved.	6	No		
B	Weather louvers weather louvers to match the inlet and outlet ducts for supply & extract fans	8	item		
ACM/394	Total carried forward to Collection page				

Item	Description	Qty	Unit	Rate	Amount (Kshs.)
A	SPLIT ROOM AIR CONDITIONING SPLIT AIR CONDITIONING SYSTEM-High wall type Air- Cooling Unit The air conditioning system shall be split type. The indoor unit shall be High wall type air-cooling unit. The air conditioning unit shall be supplied complete with room thermometer, room thermostat controls, Drainage pump and wireless remote-control device. It shall be charged with R410A refrigerant or any other non- ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three-minute delay. The outdoor unit shall have matching capacity with the indoor unit. The unit shall be "Carrier" Model or equal and approved. The indoor unit shall have the following capacity: 6.19 KW (24,000 Btu/hr)	4	No.		
	Refrigeration Pipework Refrigeration liquid line pipework including 25mm Amafex insulation.	12	LM		
	Refrigeration gas line pipework including 25mm Amafex insulation.	12	LM		
	Drain 25mm PVC condensate drainage pipework, class D, including bends, clips, joints and tees in the running lengths of the pipe.	16	LM		
	Surge Protector Power surge protector as Solatek to suite or equal and approved.	4	No.		
	Mounting bracket Mounting bracket for the outdoor unit complete with a cage and provided with purpose- made protective steel iron angle frame and all other anchoring accessories including rawl bolts and anti-vibration rubber mountings to engineer's approval.	4	Item		
ACM/395	Total carried forward to Collection page				

Item	Description	Qty	Unit	Rate	Amount (Kshs.)
A	SPLIT ROOM AIR CONDITIONING SPLIT AIR CONDITIONING SYSTEM-High wall type Air- Cooling Unit The air conditioning system shall be split type. The indoor unit shall be High wall type air-cooling unit. The air conditioning unit shall be supplied complete with room thermometer, room thermostat controls, Drainage pump and wireless remote-control device. It shall be charged with R410A refrigerant or any other non- ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three-minute delay. The outdoor unit shall have matching capacity with the indoor unit. The unit shall be "Carrier" Model or equal and approved. The indoor unit shall have the following capacity: 5.24KW (18,000 Btu/hr)	6	No.		
	Refrigeration Pipework Refrigeration liquid line pipework including 25mm Amafex insulation.	30	LM		
	Refrigeration gas line pipework including 25mm Amafex insulation.	30	LM		
	Drain 25mm PVC condensate drainage pipework, class D, including bends, clips, joints and tees in the running lengths of the pipe.	40	LM		
	Surge Protector Power surge protector as Solatek to suite or equal and approved.	6	No.		
	Mounting bracket Mounting bracket for the outdoor unit complete with a cage and provided with purpose- made protective steel iron angle frame and all other anchoring accessories including rawl bolts and anti-vibration rubber mountings to engineer's approval.	6	Item		
ACM/396	Total carried forward to Collection page				

Item	Description	Unit	Qty	Rate	Amount
A	<u>VRF/V Indoor Ceiling Mounted Air Conditioning units</u>				
	Ceiling mounted 4-way cassette (570x214x570 mm) indoor air Conditioners complete with direct Expansion Unit, room thermometer and Infrared remote-control device. Three fan speeds even air distribution, easily cleanable reusable filters, drain pan, direct expansion cooling coil with copper tubes and aluminum fins, anti-vibration mountings for fans and the unit, refrigeration pipework and circuit panel control with LED, Automatic shut off, filter-drier and sight glass, of a cooling load 12000Btu/hr. (3.52KW) operating on R 410A. The unit shall be such that if the power supply goes off, it will restart automatically after power is restored. The Unit shall be as "LG ARNU07GTRC2" suitable for ceiling mounting installation or equal and approved.	No	15		
B	<u>VRF/V Indoor Ceiling Mounted Air Conditioning units</u>				
	Ceiling mounted 4 way cassette (570x256x570 mm) indoor air Conditioners complete with direct Expansion Unit, room thermometer and Infrared Remote control device. Three fan speeds even air distribution, easily cleanable reusable filters , drain pan, direct expansion cooling coil with copper tubes and aluminum fins, anti-vibration mountings for fans and the unit, refrigeration pipework and circuit panel control with LED, Automatic shut off, filter-drier and sight glass, of a cooling load 18,000Btu/hr (5.6KW) operating on R 410A. The unit shall be such that if the power supply goes off, it will restart automatically after power is restored. The Unit shall be as "LG ARNU18GTQC2" suitable for ceiling mounting installation or equal and approved.	No	95		
C	<u>VRF/V Indoor Ceiling Mounted Air Conditioning units</u>				
	Ceiling mounted 4-way cassette (840x204x840 mm) indoor air Conditioners complete with direct Expansion Unit, room thermometer and Infrared remote-control device. Three fan speeds even air distribution, easily cleanable reusable filters, drain pan, direct expansion cooling coil with copper tubes and aluminum fins, anti-vibration mountings for fans and the unit, refrigeration pipework and circuit panel control with LED, Automatic shut off, filter-drier and sight glass, of a cooling load 24,000Btu/hr (7.1KW) operating on R 410A. The unit shall be such that if the power supply goes off, it will restart automatically after power is restored. The Unit shall be as "LG ARNU24TPC4" suitable for ceiling mounting installation or equal and approved.	No	40		
D	<u>VRF/V Air Cooled Outdoor Unit</u>				
	VRF system Outdoor heat pump shall be suitable for operation on R410A refrigerant and of cooling/heating capacity (180,000BTU/HR) 52.75 kW of LG MUILT V III, Model ARUN280LTE4 or equal and approved. Unit to be complete with mounting brackets, anti-vibration mountings and refrigerant R410A charge.	No	20		
E	Controls				
	Allow for the controls of the Variable Air Cooled Condensing Units including wiring, connectors, terminal block, etc	No.	150		
F	Mounting Support				
	Allow for suitable ceiling mounting supports for the above Indoor units and wall brackets suitable for outdoor condensing units	No.	150		
G	Refrigeration Pipework				
	6.35 mm (1/4") diameter high quality copper refrigeration pipework including pipework fittings, isolating valves, holderbats, trays, etc	LM	3,125		

	9.52 mm (3/8") diameter ditto				
H	12.7 mm (1/2") diameter ditto	LM	3,155		
I	15.88 mm (5/8") diameter ditto	LM	3,112		
J	19.05 mm (3/4") diameter ditto	LM	2,125		
K	22.2 mm (7/8") diameter ditto	LM	3,114		
L	28.58 mm (1 1/8") diameter ditto	LM	2,117		
M	34.9 mm (1 3/8") diameter ditto	LM	3,122		
N	Refrigeration Pipework Insulation	LM	3,108		
O	25 mm Armaflex insulation for suction refrigerant pipe complete with Gauge 20 Aluminum cladding	LM			
P	Drainage Pipework		1,260		
Q	40 mm diameter Class 41 uPVC condensate pipe	LM	3,000		
R	40 mm diameter class 41 Equal Tee	No	206		
S	40 mm diameter Class 41 uPVC Sweep bend	No	206		
T	100 x40 mm diameter connector.	No	160		
	Add Contingency for Air conditioning Works	Item	1		
ACM/ 398	Total carried forward to Collection page				

Item	Description	Amount
A	Total brought forward from page ACM/392	
B	Total brought forward from page ACM/393	
C	Total brought forward from page ACM/394	
D	Total brought forward from page ACM/395	
E	Total brought forward from page ACM/396	
F	Total brought forward from page AMC/398	
ACM/399	SUB TOTAL FOR AIR CONDITIONING WORKS	

Item	Description	Amount
A	Total for Plumbing and Drainage Works	
B	Total for Air Conditioning Works	
ACM/400	TOTAL FOR PLUMBING, AIR CONDITIONING EQUIPMENT WORKS CARRIED TO SUMMARY PAGE	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUPPLY, DELIVERY AND INSTALLATION OF SOLAR WATER HEATING SYSTEMS WORKS AND ASSOCIATED WORKS				
	heating System to the satisfaction of the project manager.				
A	Indirect water heating system comprising 350 litres high pressure galvanized mild steel storage cylinder with long life GRP resin insulated casing with 18kw electric booster element.	40	No.		
B	2m ² solar collector panel made from extruded or thermally bonded copper or aluminum tubes and coated with solar absorbing paint, insulation. 5mm thick glass and painted sheet metal casing. The system shall be as solarhart or approved.	ITEM	No.		
C	<u>Solar Heater Controller</u> The solar system shall be equipped with a heater controller wired such that when such that when the temperature of circulating fluid goes down below a certain level, then the controller shall	40	No.		
D	Allow for solar heating system mounting kit on a pitched roof and all system interconnecting pipework including pressure release valve	Item	Item		
E	<u>Wiring</u> Allow for all wiring to booster heater from local isolator supplied by others within two meter to the solar heating systems.				
F	<u>Safety Valve</u> Temperature/pressure safety valve set to release when the water in the tanks exceed 85°C as manufactured by Spirax Sarco model No. SV11 Pop Type or equal and approved.	Item	Item		
		80	NO.		
G	<u>Supporting Frames</u> Allow for support 3mm hollow tube mild steel angle iron fixed cylinders to engineer's approval.	80	No.		
H	<u>Automatic Air Eliminator</u> Air relief valve as manufacture by 'Spirax Sarco' model No. AES 50 Air Eliminators for use on hot water services.				
I.	Supply Tanks	40	No		
J.	Feeder Tanks				
	1000 litres feeder tanks	40	No.		
K.	<u>Booster Pumps</u> 240v 50Hz booster 0.746Kw each complete with pressure regulating system and cylinder.	40	No.		
SWH/401	Total carried to collection page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Allow for provision of associated electrical works to the solar lighting systems	Item	Item		
	Allow for any other works which may be related to the solar lighting system to perfection and approved by the project engineer.	Item	Item		
	Prepare and submit Maintenance manuals for all items installed	Item	Item		
	Allow for Testing and commissioning of all Plumbing and drainage works to the satisfaction of the Engineer.	Item	Item		
SHW/402	Total carried to collection page				

ITEM	DESCRIPTION	KSHS
A.	Total brought forward from page SHW/401	
B.	Total brought forward from page SHW/402	
SHW/403	Total carried to Main summary page	

PROPOSED REHABILITATION OF MECHANICAL WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Allow for hoarding of the entire construction site to prevent entry of unauthorized personnel and materials				
B	<u>MATERIALS ARISING FROM EXCAVATIONS</u>				
	Materials of any kind obtained from the excavations shall be the property of the Government Unless the "PROJECT				
	MANAGER "directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the				
	works, in substitution of materials which the Contractor would	1	No.		
	otherwise have had to supply with the written permission of the				
C	"PROJECT MANAGER". Should such permission be given, the Contractor shall make due allowance for the value of the materials so				
	used at a price to be agreed.				
D	Construction of Site location and office	1	No		
E	<u>PROTECTION OF THE WORKS.</u>				
	Provide protection of the whole of the works contained in the Bills of Quantities, including 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.	1	No.		
F	<u>OFFICE FOR THE PROJECT MANAGER</u>	1	No.		
	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 maintain a lock-up pedestal type				
	water or bucket closet for the sole use of the "PM" including making				
	temporary connections to the drain where applicable to the satisfaction Government and Medical Officer of Health and pay the services of a cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be complete before the contractor is permitted to commence the works. The Contractor shall make available on site as and when required by the "PM" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic linen tape.	1	No.		
	Prime cost and provisional sum (insert profit and attendance which is a percentage of expended PC or provisional sum.)	1	No.		
	Allow for a Provisional Sum for Bid Bond	1	No.		
	Government Legislation and Regulations Rules	1	No.		
	Import Duty and Value Added Tax clause 1.17(Note this clause applies for materials supplied only. VAT will also be paid by the sub-contractor as allowed in the summary page)				
	Insurance company Fees	1	No.		
	Provision of services by the Main contractor				
	Approval of Samples and Materials Generally	1	No.		
	Laptop Brand: Lenovo Processor: Core i7 (11th Gen) Storage: 1TB 2.5" SATA HDD + 256GB NVMe PCIe SSD Condition: Brand-New Color:				
	Shadow Black Display: 15.6-inch FHD (1920 x 1080); Anti-glare; 120Hz refresh rate Ram: 16 GB Part Number: 82K10051UE	1	No		
RMW/404	SUB-TOTAL CARRIED TO PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</u> 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 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 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.	1	No.		
B	Sum for Preparations Of Bills of Quantities and Documentations	1	No.		
C	Provisions for Contractor's Office in Kenya	1	No.		
D	Associated Plumbing and Drainage Works	1	No.		
E	Setting to work and Regulating system for the contracts	1	No.		
F	Identification of plant components and materials	1	No.		
G	Provisions and Presentations of Working Drawings	1	No.		
H	Allow for Kshs. 50,000/= Only For Record Drawings (As Installed) and Instructions clause 1.33	1	No.		
I J	Maintenance Manual for the supplied and installed services	1	No.		
K	Handing over Expenses	1	No.		
L	Allow for Painting of all the newly constructed walling and the damaged areas by making good	1	No.		
M	Testing and Inspection – manufactured plant and all the supplied materials	1	No.		
N	Testing and Inspection – Installation processes				
	<u>MATERIALS ON SITE</u>				
O	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 is to include the materials of Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.	1	No.		
	Initial Maintenance services				
RMW/ 405	SUB-TOTAL CARRIED TO PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Attendance Upon Tradesmen, etc. (Insert percentage only)	1	No.		
B	Allow for Local and other Authorities notices and fees payable to the County Government	1	No.		
C	Temporary Works	1	No.		
D	Allow for Relocation of service lines Including but not limited to Plumbing, Drainage, sewer and telephony lines in the underground levels	1	No.		
E	Mobilization and Demobilization of all the materials, equipment, tools, labour and services required for the completion of the works	1	No.		
F		1	No.		
G	Extended Preliminaries	1	Item		
H	Allow for Kshs. 1,000,000/= (Kenya Shillings One Million) Only For Supervision by Engineers and Site Meetings attended by the Contract Implementation Committee Members	1	No.		
I	Allow for profit and Attendance for the above	1	No.		
J	Amendment to Scope of Sub-contract Works	1	No.		
J	<u>EXISTING PROPERTY.</u> 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	1	No.		
L	<u>FACTORY ACCEPTANCE VISITS</u> Allow for Factory and Acceptance Visits of Kshs. 7,500,000/= (Seven Million Five Hundred Thousand Only) by the Staff from State Department For Public Works Engineer's Representatives and Client's Representatives (KSG) Allow for Construction of masonry bases of the plastic tanks to be used as temporary storage during the construction works	1	No		
RMW/406	Subtotal above				

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION PAGE</u>				
A	Carried forward from Page RMW/404				
B	Carried forward from Page RMW/405				
C	Carried forward from Page RMW/406				
RMF/407	Total amount forward to the summary page				

ITEM	DESCRIPTION	AMOUNT (Kshs)
A	TOTAL AMOUNT FOR BILL NO. 1 B/F FROM PAGE UMF/364 (KITCHEN EXTRACTOR)	
B	TOTAL AMOUNT FOR BILL NO. 2 B/F FROM PAGE UMF/368 (KITCHEN COLD ROOM)	
C	TOTAL AMOUNT FOR BILL NO. 3 B/F FROM PAGE UMF/369 (KITCHEN EQUIPMENT)	
D	TOTAL AMOUNT FOR BILL NO. 3 B/F FROM PAGE UMF/372 (LP GAS WORKS)	
E	TOTAL AMOUNT FOR BILL NO. 4 B/F FROM PAGE UMF/378 (LAUNDRY WORKS AND VENTILATORS)	
F	TOTAL AMOUNT FOR PLUMBING, AIRCON EQUIPMENT AND ASSOCIATED WORKS ACM/400	
G	TOTAL AMOUNT FOR INSTALLATION OF SOLAR WATER HEATING SYSTEMS WORKS AND ASSOCIATED WORKS SHW/403	
H	TOTAL AMOUNT FOR REHABILITATION OF MECHANICAL WORKS RMW/407	
I	ALLOW FOR INSTALLATION OF REVERSE OSMOSIS PLANT WORKS (THIRTY-TWO MILLION KENYA SHILLINGS ONLY)	32,000,000.00
J	ALLOW FOR PROJECT ADMINISTRATION SUM FOR MECHANICAL WORKS (FIVE MILLION KENYA SHILLINGS ONLY)	5,000,000.00
K	ALLOW FOR CONTIGENCY SUM (TWENTY-FIVE MILLION FIVE HUNDRED THOUSAND KENYA SHILLINGS ONLY)	25,500,000.00
UMF/408	TOTAL AMOUNT FOR AIR CONDITIONING WORKS, PLUMBING, DRAINAGE, KITCHEN EQUIPMENT WORKS, COLD ROOM, LPG WORKS AND ASSOCIATED WORKS FOR ULTRA MODERN FACILITY CARRIED TO SUMMARY PAGE	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION SUMMARY</u>				
1	Bahari Hostel -BHM/289				
2	Sabaki Hostel-SHM/303				
3	Galana Hostel-GHM/317				
4	Mzima Hostel-MRM/331				
5	Marere Hostel-MRM/345				
6	STAFF QUARTERS/OFFICES -SQM/359				
7	ULTRA MODERN FACILITY - UMF/408				
MBM/409	Total carried to Grand Summary				

BILL NO. 6

SOLAR WATER HEATERS

BAHARI HOSTEL

SOLAR WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install test and commission the following Solar				
	heating System to the satisfaction of the project manager.				
A	Indirect water heating system comprising 350 litres high pressure galvanized mild steel storage cylinder with long life GRP resin				
	insulated casing with 18kw electric booster element.	14	No.		
B	2m ² solar collector panel made from extruded or thermally bonded copper or aluminum tubes and coated with solar				
	absorbing paint, insulation. 5mm thick glass and painted sheet				
	metal casing. The system shall be as solarhart or approved.	ITEM	No.		
C	<u>Solar Heater Controller</u> The solar system shall be equipped with a heater controller				
	wired such that when such that when the temperature of				
	circulating fluid goes down below a certain level, then the controller shall switch on the electric heating element.	14	No.		
D	Allow for solar heating system mounting kit on a pitched roof and all system interconnecting pipework including pressure				
	release valve	Item	Item		
E	<u>Wiring</u> Allow for all wiring to booster heater from local isolator supplied by others within two meters to the solar heating systems.				
F	<u>Safety Valve</u> Temperature/pressure safety valve set to release when the water in the tanks exceed 85°C as manufactured by Spirax Sarco model	Item	Item		
	No. SV11 Pop Type or equal and approved.				
		28	NO.		
G	<u>Supporting Frames</u> Allow for support 3mm hollow tube mild steel angle iron fixed				
	cylinders to engineers' approval.	28	No.		
H	<u>Automatic Air Eliminator</u> Air relief valve as manufacture by 'Spirax Sarco' model No.				
	AES 50 Air Eliminators for use on hot water services.				
I.	Supply Tanks	14	No		
	5000 litres storage supply tanks	4	No.		
J.	Feeder Tanks				
	1000 litres feeder tasks	4	No.		
K.	<u>Booster Pumps</u>				
	240v 50Hz booster 0.746Kw each complete with pressure regulating system and cylinder.	14	No.		
BHS/412	Total carried to collection page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Allow for provision of associated electrical works to the solar heating systems	Item	Item		
	Allow for any other works which may be related to the solar heating system to perfection and approved by the project engineer.	Item	Item		
	Prepare and submit Maintenance manuals for all items installed	Item	Item		
	Allow for Testing and commissioning of all Plumbing and drainage works to the satisfaction of the Engineer.				
BHS/413	Total carried to collection page				

ITEM	DESCRIPTION	KSHS
A.	Total brought forward from page BHS/412	
B.	Total brought forward from page BHS/413	
BHS/414	Total carried to Main summary page	

ITEM	DESCRIPTION	AMOUNT (KShs)
A.	Total brought forward for PRELIMINARIES	
B.	Total brought forward for Solar Water Heating System BHS/414	
C.	Allow the sum of Kshs. 1. 500,000/= (One million Five Hundred Thousand Shillings Only) for CONTINGENCY	
BHS/415	TOTAL AMOUNT CARRIED TO MAIN SUMMARY PAGE	

SABAKI HOSTEL

SOLAR WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install test and commission the following Solar				
	heating System to the satisfaction of the project manager.				
A	Indirect water heating system comprising 350 litres high pressure galvanized mild steel storage cylinder with long life GRP resin				
	insulated casing with 18kw electric booster element.	10	No.		
B	2m ² solar collector panel made from extruded or thermally bonded copper or aluminum tubes and coated with solar				
	absorbing paint, insulation. 5mm thick glass and painted sheet				
	metal casing. The system shall be as solarhart or approved.	ITEM	No.		
C	<u>Solar Heater Controller</u> The solar system shall be equipped with a heater controller				
	wired such that when the temperature of				
	circulating fluid goes down below a certain level, then the controller shall switch on the electric heating element.	10	No.		
D	Allow for solar heating system mounting kit on a pitched roof and all system interconnecting pipework including pressure				
	release valve	Item	Item		
E	<u>Wiring</u> Allow for all wiring to booster heater from local isolator supplied by others within two meters to the solar heating systems.				
F	<u>Safety Valve</u> Temperature/pressure safety valve set to release when the water in the tanks exceed 85°C as manufactured by Spirax Sarco model	Item	Item		
	No. SV11 Pop Type or equal and approved.				
		20	NO.		
G	<u>Supporting Frames</u> Allow for support 3mm hollow tube mild steel angle iron fixed				
	cylinders to engineers' approval.	20	No.		
H	<u>Automatic Air Eliminator</u> Air relief valve as manufacture by 'Spirax Sarco' model No.				
	AES 50 Air Eliminators for use on hot water services.				
I.	Supply Tanks	10	No		
	5000 litres storage supply tanks	4	No.		
J.	Feeder Tanks				
	1000 litres feeder tanks	4	No.		
K.	<u>Booster Pumps</u>				
	240v 50Hz booster 0.746Kw each complete with pressure regulating system and cylinder.	10	No.		
SHS/417	Total carried to collection page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Allow for provision of associated electrical works to the solar heating systems	Item	Item		
	Allow for any other works which may be related to the solar heating system to perfection and approved by the project engineer.	Item	Item		
	Prepare and submit Maintenance manuals for all items installed	Item	Item		
	Allow for Testing and commissioning of all Plumbing and drainage works to the satisfaction of the Engineer.				
SHS/418	Total carried to collection page				

ITEM	DESCRIPTION	KSHS
A.	Total brought forward from page SHS/417	
B.	Total brought forward from page SHS/418	
SHS/419	Total carried to Main summary page	

ITEM	DESCRIPTION	AMOUNT (KShs)
A.	Total brought forward for PRELIMINARIES	
B.	Total brought forward for Solar Water Heating System SHS/419	
C.	Allow the sum of Kshs. 1. 500,000/= (One million Five Hundred Thousand Shillings Only) for CONTINGENCY	
SHS/420	TOTAL AMOUNT CARRIED TO MAIN SUMMARY PAGE	

GALANA HOSTEL

SOLAR WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install test and commission the following Solar				
	heating System to the satisfaction of the project manager.				
A	Indirect water heating system comprising 350 litres high pressure galvanized mild steel storage cylinder with long life GRP resin				
	insulated casing with 18kw electric booster element.	10	No.		
B	2m ² solar collector panel made from extruded or thermally bonded copper or aluminum tubes and coated with solar				
	absorbing paint, insulation. 5mm thick glass and painted sheet				
	metal casing. The system shall be as solarhart or approved.	ITEM	No.		
C	<u>Solar Heater Controller</u> The solar system shall be equipped with a heater controller				
	wired such that when such that when the temperature of				
	circulating fluid goes down below a certain level, then the controller shall switch on the electric heating element.	10	No.		
D	Allow for solar heating system mounting kit on a pitched roof and all system interconnecting pipework including pressure				
	release valve	Item	Item		
E	<u>Wiring</u> Allow for all wiring to booster heater from local isolator supplied by others within two meters to the solar heating systems.				
F	<u>Safety Valve</u> Temperature/pressure safety valve set to release when the water in the tanks exceed 85°C as manufactured by Spirax Sarco model	Item	Item		
	No. SV11 Pop Type or equal and approved.				
		20	NO.		
G	<u>Supporting Frames</u> Allow for support 3mm hollow tube mild steel angle iron fixed				
	cylinders to engineers' approval.	20	No.		
H	<u>Automatic Air Eliminator</u> Air relief valve as manufacture by 'Spirax Sarco' model No.				
	AES 50 Air Eliminators for use on hot water services.				
I.	Supply Tanks	10	No		
	5000 litres storage supply tanks	4	No.		
J.	Feeder Tanks				
	1000 litres feeder tasks	4	No.		
K.	<u>Booster Pumps</u>				
	240v 50Hz booster 0.746Kw each complete with pressure regulating system and cylinder.	10	No.		
GHS/422	Total carried to collection page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Allow for provision of associated electrical works to the solar heating systems	Item	Item		
	Allow for any other works which may be related to the solar heating system to perfection and approved by the project engineer.	Item	Item		
	Prepare and submit Maintenance manuals for all items installed	Item	Item		
	Allow for Testing and commissioning of all Plumbing and drainage works to the satisfaction of the Engineer.				
GHS/423	Total carried to collection page				

ITEM	DESCRIPTION	KSHS
A.	Total brought forward from page GHS/422	
B.	Total brought forward from page GHS/423	
GHS/424	Total carried to Main summary page	

ITEM	DESCRIPTION	AMOUNT (KShs)
A.	Total brought forward for PRELIMINARIES	
B.	Total brought forward for Solar Water Heating System GHS/424	
C.	Allow the sum of Kshs. 1. 500,000/= (One million Five Hundred Thousand Shillings Only) for CONTINGENCY	
GHS/425	TOTAL AMOUNT CARRIED TO MAIN SUMMARY PAGE	

MZIMA HOSTEL

SOLAR WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install test and commission the following Solar				
	heating System to the satisfaction of the project manager.				
A	Indirect water heating system comprising 350 litres high pressure galvanized mild steel storage cylinder with long life GRP resin				
	insulated casing with 18kw electric booster element.	12	No.		
B	2m ² solar collector panel made from extruded or thermally bonded copper or aluminum tubes and coated with solar				
	absorbing paint, insulation. 5mm thick glass and painted sheet				
	metal casing. The system shall be as solarhart or approved.	ITEM	No.		
C	<u>Solar Heater Controller</u> The solar system shall be equipped with a heater controller				
	wired such that when such that when the temperature of				
	circulating fluid goes down below a certain level, then the controller shall switch on the electric heating element.	12	No.		
D	Allow for solar heating system mounting kit on a pitched roof and all system interconnecting pipework including pressure				
	release valve	Item	Item		
E	<u>Wiring</u> Allow for all wiring to booster heater from local isolator supplied by others within two meters to the solar heating systems.				
F	<u>Safety Valve</u> Temperature/pressure safety valve set to release when the water in the tanks exceed 85°C as manufactured by Spirax Sarco model	Item	Item		
	No. SV11 Pop Type or equal and approved.				
		24	NO.		
G	<u>Supporting Frames</u> Allow for support 3mm hollow tube mild steel angle iron fixed				
	cylinders to engineers' approval.	24	No.		
H	<u>Automatic Air Eliminator</u> Air relief valve as manufacture by 'Spirax Sarco' model No.				
	AES 50 Air Eliminators for use on hot water services.				
I.	Supply Tanks	12	No		
	5000 litres storage supply tanks	4	No.		
J.	Feeder Tanks				
	1000 litres feeder tasks	4	No.		
K.	<u>Booster Pumps</u>				
	240v 50Hz booster 0.746Kw each complete with pressure regulating system and cylinder.	12	No.		
MZS/427	Total carried to collection page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Allow for provision of associated electrical works to the solar heating systems	Item	Item		
	Allow for any other works which may be related to the solar heating system to perfection and approved by the project engineer.	Item	Item		
	Prepare and submit Maintenance manuals for all items installed	Item	Item		
	Allow for Testing and commissioning of all Plumbing and drainage works to the satisfaction of the Engineer.				
MZS/428	Total carried to collection page				

ITEM	DESCRIPTION	KSHS
A.	Total brought forward from page MZS/427	
B.	Total brought forward from page MZS/428	
MZS/429	Total carried to Main summary page	

ITEM	DESCRIPTION	AMOUNT (Kshs)
A.	Total brought forward for PRELIMINARIES	
B.	Total brought forward for Solar Water Heating System MZS/429	
C.	Allow the sum of Kshs. 1. 500,000/= (One million Five Hundred Thousand Shillings Only) for CONTINGENCY	
MZS/430	TOTAL AMOUNT CARRIED TO MAIN SUMMARY PAGE	

MARERE HOSTEL

SOLAR WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install test and commission the following Solar				
	heating System to the satisfaction of the project manager.				
A	Indirect water heating system comprising 350 litres high pressure galvanized mild steel storage cylinder with long life GRP resin				
	insulated casing with 18kw electric booster element.	10	No.		
B	2m ² solar collector panel made from extruded or thermally bonded copper or aluminum tubes and coated with solar				
	absorbing paint, insulation. 5mm thick glass and painted sheet				
	metal casing. The system shall be as solarhart or approved.	ITEM	No.		
C	<u>Solar Heater Controller</u> The solar system shall be equipped with a heater controller				
	wired such that when the temperature of				
	circulating fluid goes down below a certain level, then the controller shall switch on the electric heating element.	10	No.		
D	Allow for solar heating system mounting kit on a pitched roof and all system interconnecting pipework including pressure				
	release valve	Item	Item		
E	<u>Wiring</u> Allow for all wiring to booster heater from local isolator supplied by others within two meters to the solar heating systems.				
F	<u>Safety Valve</u> Temperature/pressure safety valve set to release when the water in the tanks exceed 85°C as manufactured by Spirax Sarco model	Item	Item		
	No. SV11 Pop Type or equal and approved.				
		20	NO.		
G	<u>Supporting Frames</u> Allow for support 3mm hollow tube mild steel angle iron fixed				
	cylinders to engineers' approval.	20	No.		
H	<u>Automatic Air Eliminator</u> Air relief valve as manufacture by 'Spirax Sarco' model No.				
	AES 50 Air Eliminators for use on hot water services.				
I.	Supply Tanks	10	No		
	5000 litres storage supply tanks	4	No.		
J.	Feeder Tanks				
	1000 litres feeder tanks	4	No.		
K.	<u>Booster Pumps</u>				
	240v 50Hz booster 0.746Kw each complete with pressure regulating system and cylinder.	10	No.		
MRS/432	Total carried to collection page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Allow for provision of associated electrical works to the solar heating systems	Item	Item		
	Allow for any other works which may be related to the solar heating system to perfection and approved by the project engineer.	Item	Item		
	Prepare and submit Maintenance manuals for all items installed	Item	Item		
	Allow for Testing and commissioning of all Plumbing and drainage works to the satisfaction of the Engineer.				
MRS/433	Total carried to collection page				

ITEM	DESCRIPTION	KSHS
A.	Total brought forward from page MRS/432	
B.	Total brought forward from page MRS/433	
MRS/434	Total carried to Main summary page	

ITEM	DESCRIPTION	AMOUNT (Kshs)
A.	Total brought forward for PRELIMINARIES	
B.	Total brought forward for Solar Water Heating System MRS/434	
C.	Allow the sum of Kshs. 1. 500,000/= (One million Five Hundred Thousand Shillings Only) for CONTINGENCY	
MRS/435	TOTAL AMOUNT CARRIED TO MAIN SUMMARY PAGE	

STAFF HOUSES TYPOLOGY 1-4

SOLAR WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install test and commission the following Solar				
	heating System to the satisfaction of the project manager.				
A	Indirect water heating system comprising 350 litres high pressure galvanized mild steel storage cylinder with long life GRP resin				
	insulated casing with 18kw electric booster element.	8	No.		
B	2m ² solar collector panel made from extruded or thermally bonded copper or aluminum tubes and coated with solar				
	absorbing paint, insulation. 5mm thick glass and painted sheet				
	metal casing. The system shall be as solarhart or approved.	ITEM	No.		
C	<u>Solar Heater Controller</u> The solar system shall be equipped with a heater controller				
	wired such that when such that when the temperature of				
	circulating fluid goes down below a certain level, then the controller shall switch on the electric heating element.	8	No.		
D	Allow for solar heating system mounting kit on a pitched roof and all system interconnecting pipework including pressure				
	release valve	Item	Item		
E	<u>Wiring</u> Allow for all wiring to booster heater from local isolator supplied by others within two meters to the solar heating systems.				
F	<u>Safety Valve</u> Temperature/pressure safety valve set to release when the water in the tanks exceed 85°C as manufactured by Spirax Sarco model	Item	Item		
	No. SV11 Pop Type or equal and approved.				
		16	NO.		
G	<u>Supporting Frames</u> Allow for support 3mm hollow tube mild steel angle iron fixed				
	cylinders to engineers' approval.	16	No.		
H	<u>Automatic Air Eliminator</u> Air relief valve as manufacture by 'Spirax Sarco' model No.				
	AES 50 Air Eliminators for use on hot water services.				
I.	Supply Tanks	16	No		
	5000 litres storage supply tanks	4	No.		
J.	Feeder Tanks				
	1000 litres feeder tasks	4	No.		
K.	<u>Booster Pumps</u>				
	240v 50Hz booster 0.746Kw each complete with pressure regulating system and cylinder.	16	No.		
SHT/437	Total carried to collection page				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
SHT/438	Allow for provision of associated electrical works to the solar heating systems	Item	Item		
	Allow for any other works which may be related to the solar heating system to perfection and approved by the project engineer.	Item	Item		
	Prepare and submit Maintenance manuals for all items installed	Item	Item		
	Allow for Testing and commissioning of all Plumbing and drainage works to the satisfaction of the Engineer.				
SHT/438	Total carried to collection page				

ITEM	DESCRIPTION	KSHS
A.	Total brought forward from page SHT/437	
B.	Total brought forward from page SHT/438	
SHT/439	Total carried to Main summary page	

ITEM	DESCRIPTION	AMOUNT (Kshs)
A.	Total brought forward for PRELIMINARIES	
B.	Total brought forward for Solar Water Heating System SHT/439	
C.	Allow the sum of Kshs. 1. 500,000/= (One million Five Hundred Thousand Shillings Only) for CONTINGENCY	
SHT/440	TOTAL AMOUNT CARRIED TO MAIN SUMMARY PAGE	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION SUMMARY</u>				
1	Bahari Hostel BHS/415				
2	Sabaki Hostel SHS/420				
3	Galana Hostel GHS/425				
4	Mzima Hostel MZS/430				
5	Marere Hostel MRS/435				
6	STAFF HOUSE TYPOLOGY 1-4 SHT/440				
SW/S/441	Total carried to Grand Summary				

BILL NO. 7

AIR CONDITIONING

BAHARI HOSTELS

Item	Description	Unit	Qty	Rate	Amount
	AIR CONDITIONING WORKS				
	SPLIT AIR CONDITIONING SYSTEM-HIGH WALL MOUNTED TYPE AIR COOLING UNIT				
A	The indoor unit shall be Wall Mounted type air-cooling unit C/W Heat pump and capable to both heating and cooling. The air conditioning unit shall be supplied complete with room thermometer, room thermostat controls, Drainage pump and wireless remote-control device. It shall be charged with R410A refrigerant or any other non-ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three-minute delay. The outdoor unit shall have matching capacity with the indoor unit. The unit shall be "SAMSUNG" Model or equal and approved. The indoor unit shall have the following capacity: shall have the following capacity: 6.19KW (24,000 Btu/hr)	29	No		
	Refrigeration Pipework				
B	Refrigeration liquid line copper pipework including 25mm Amafex insulation.	2552	LM		
C	Refrigeration gas line pipework including 65mm Amafex insulation.	1856	LM		
	Gas line copper pipes				
D	Copper pipe, diameter 12.7mm (1/2")	2320	Lm		
E	Copper pipe, diameter 15.88mm (5/8")	2320	Lm		
	Cables				
F	CV IEC Power cable 1.5mm 3 core	1740	No		
G	AC Cable 1.55qx2cx300M VCTF-SB	1740	No		
	TOILETS VENTILATION SYSTEM				
H	Extract fan capable of a volume flow rate of 110m3/Hr against a pressure drop of 150 pa. Fan 29 to be complete with supports, flexible connections and anti-vibrations mountings. To be as S & P' silenced box fan or equal and approved.	29	No		
I	Motion sensor for the above extract fan connections and anti-vibrations mountings. As "woods aerofoil axial flow" running speed 1420 rpm or equal and approved. Power input to be 0.2kW max	29	No		
J	Flexible Connection The flexible connection shall be rubber bellows or neoprene and not canvas to isolate vibrations from the air conditioning unit or fans from the interconnecting duct work.	1102	SM		
K	Electrical Works Allow for electrical works associated with installation of out door and indoor units and control network	29	No		
L	TESTING AND COMMISSIONING Allow for Testing and commissioning of the entire system	Item	1		
BHAC/444	TOTAL FOR AIR CONDITIONING WORKS CARRIED TO SUMMARY PAGE				

SABAKI HOSTELS

Item	Description	Unit	Qty	Rate	Amount
	AIR CONDITIONING WORKS				
	SPLIT AIR CONDITIONING SYSTEM-HIGH WALL MOUNTED TYPE AIR COOLING UNIT				
A	The indoor unit shall be Wall Mounted type air-cooling unit C/W Heat pump and capable to both heating and cooling. The air conditioning unit shall be supplied complete with room thermometer, room thermostat controls, Drainage pump and wireless remote-control device. It shall be charged with R410A refrigerant or any other non-ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three-minute delay. The outdoor unit shall have matching capacity with the indoor unit. The unit shall be "SAMSUNG" Model or equal and approved. The indoor unit shall have the following capacity: shall have the following capacity: 6.19KW (24,000 Btu/hr)	7	No		
	Refrigeration Pipework				
B	Refrigeration liquid line copper pipework including 25mm Amafex insulation.	616	LM		
C	Refrigeration gas line pipework including 65mm Amafex insulation.	448	LM		
	Gas line copper pipes				
D	Copper pipe, diameter 12.7mm (1/2")	560	Lm		
E	Copper pipe, diameter 15.88mm (5/8")	560	Lm		
	Cables				
F	CV IEC Power cable 1.5mm 3 core	420	No		
G	AC Cable 1.55qx2cx300M VCTF-SB	420	No		
	TOILETS VENTILATION SYSTEM				
H	Extract fan capable of a volume flow rate of 110m3/Hr against a pressure drop of 150 pa. Fan 29 to be complete with supports, flexible connections and anti-vibrations mountings. To be as S & P' silenced box fan or equal and approved.	7	No		
I	Motion sensor for the above extract fan connections and anti-vibrations mountings. As "woods aerofoil axial flow" running speed 1420 rpm or equal and approved. Power input to be 0.2kW max	7	No		
J	Flexible Connection The flexible connection shall be rubber bellows or neoprene and not canvas to isolate vibrations from the air conditioning unit or fans from the interconnecting duct work.	266	SM		
K	Electrical Works Allow for electrical works associated with installation of out door and indoor units and control network	7	No		
L	TESTING AND COMMISSIONING Allow for Testing and commissioning of the entire system	Item	1		
SHAC/446	TOTAL FOR AIR CONDITIONING WORKS CARRIED TO SUMMARY PAGE				

GALANA HOSTELS

Item	Description	Unit	Qty	Rate	Amount
	AIR CONDITIONING WORKS				
	SPLIT AIR CONDITIONING SYSTEM-HIGH WALL MOUNTED TYPE AIR COOLING UNIT				
A	The indoor unit shall be Wall Mounted type air-cooling unit C/W Heat pump and capable to both heating and cooling. The air conditioning unit shall be supplied complete with room thermometer, room thermostat controls, Drainage pump and wireless remote-control device. It shall be charged with R410A refrigerant or any other non-ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three-minute delay. The outdoor unit shall have matching capacity with the indoor unit. The unit shall be "SAMSUNG" Model or equal and approved. The indoor unit shall have the following capacity: shall have the following capacity: 6.19KW (24,000 Btu/hr)	12	No		
	Refrigeration Pipework				
B	Refrigeration liquid line copper pipework including 25mm Amafex insulation.	1056	LM		
C	Refrigeration gas line pipework including 65mm Amafex insulation.	768	LM		
	Gas line copper pipes				
D	Copper pipe, diameter 12.7mm (1/2")	960	Lm		
E	Copper pipe, diameter 15.88mm (5/8")	960	Lm		
	Cables				
F	CV IEC Power cable 1.5mm 3 core	720	No		
G	AC Cable 1.55qx2cx300M VCTF-SB	720	No		
	TOILETS VENTILATION SYSTEM				
H	Extract fan capable of a volume flow rate of 110m3/Hr against a pressure drop of 150 pa. Fan 29 to be complete with supports, flexible connections and anti-vibrations mountings. To be as S & P' silenced box fan or equal and approved.	12	No		
I	Motion sensor for the above extract fan connections and anti-vibrations mountings. As "woods aerofoil axial flow" running speed 1420 rpm or equal and approved. Power input to be 0.2kW max	12	No		
J	Flexible Connection The flexible connection shall be rubber bellows or neoprene and not canvas to isolate vibrations from the air conditioning unit or fans from the interconnecting duct work.	456	SM		
K	Electrical Works Allow for electrical works associated with installation of out door and indoor units and control network	12	No		
L	TESTING AND COMMISSIONING Allow for Testing and commissioning of the entire system	Item	1		
GHAC /448	TOTAL FOR AIR CONDITIONING WORKS CARRIED TO SUMMARY PAGE				

MZIMA HOSTELS

Item	Description	Unit	Qty	Rate	Amount
	AIR CONDITIONING WORKS				
	SPLIT AIR CONDITIONING SYSTEM-HIGH WALL MOUNTED TYPE AIR COOLING UNIT				
A	The indoor unit shall be Wall Mounted type air-cooling unit C/W Heat pump and capable to both heating and cooling. The air conditioning unit shall be supplied complete with room thermometer, room thermostat controls, Drainage pump and wireless remote-control device. It shall be charged with R410A refrigerant or any other non-ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three-minute delay. The outdoor unit shall have matching capacity with the indoor unit. The unit shall be "SAMSUNG" Model or equal and approved. The indoor unit shall have the following capacity: shall have the following capacity: 6.19KW (24,000 Btu/hr)	12	No		
	Refrigeration Pipework				
B	Refrigeration liquid line copper pipework including 25mm Amafex insulation.	1056	LM		
C	Refrigeration gas line pipework including 65mm Amafex insulation.	768	LM		
	Gas line copper pipes				
D	Copper pipe, diameter 12.7mm (1/2")	960	Lm		
E	Copper pipe, diameter 15.88mm (5/8")	960	Lm		
	Cables				
F	CV IEC Power cable 1.5mm 3 core	720	No		
G	AC Cable 1.55qx2cx300M VCTF-SB	720	No		
	TOILETS VENTILATION SYSTEM				
H	Extract fan capable of a volume flow rate of 110m3/Hr against a pressure drop of 150 pa. Fan 29 to be complete with supports, flexible connections and anti-vibrations mountings. To be as S & P' silenced box fan or equal and approved.	12	No		
I	Motion sensor for the above extract fan connections and anti-vibrations mountings. As "woods aerofoil axial flow" running speed 1420 rpm or equal and approved. Power input to be 0.2kW max	12	No		
J	Flexible Connection The flexible connection shall be rubber bellows or neoprene and not canvas to isolate vibrations from the air conditioning unit or fans from the interconnecting duct work.	456	SM		
K	Electrical Works Allow for electrical works associated with installation of out door and indoor units and control network	12	No		
L	TESTING AND COMMISSIONING Allow for Testing and commissioning of the entire system	Item	1		
MZAC /450	TOTAL FOR AIR CONDITIONING WORKS CARRIED TO SUMMARY PAGE				

MARERE HOSTELS

Item	Description	Unit	Qty	Rate	Amount
	AIR CONDITIONING WORKS				
	SPLIT AIR CONDITIONING SYSTEM-HIGH WALL MOUNTED TYPE AIR COOLING UNIT				
A	The indoor unit shall be Wall Mounted type air-cooling unit C/W Heat pump and capable to both heating and cooling. The air conditioning unit shall be supplied complete with room thermometer, room thermostat controls, Drainage pump and wireless remote-control device. It shall be charged with R410A refrigerant or any other non-ozone depleting refrigerant. The unit shall be such that if the power supply goes off, it will start automatically after power is restored with three-minute delay. The outdoor unit shall have matching capacity with the indoor unit. The unit shall be "SAMSUNG" Model or equal and approved. The indoor unit shall have the following capacity: shall have the following capacity: 6.19KW (24,000 Btu/hr)	7	No		
	Refrigeration Pipework				
B	Refrigeration liquid line copper pipework including 25mm Amafex insulation.	616	LM		
C	Refrigeration gas line pipework including 65mm Amafex insulation.	448	LM		
	Gas line copper pipes				
D	Copper pipe, diameter 12.7mm (1/2")	560	Lm		
E	Copper pipe, diameter 15.88mm (5/8")	560	Lm		
	Cables				
F	CV IEC Power cable 1.5mm 3 core	420	No		
G	AC Cable 1.55qx2cx300M VCTF-SB	420	No		
	TOILETS VENTILATION SYSTEM				
H	Extract fan capable of a volume flow rate of 110m3/Hr against a pressure drop of 150 pa. Fan 29 to be complete with supports, flexible connections and anti-vibrations mountings. To be as S & P' silenced box fan or equal and approved.	7	No		
I	Motion sensor for the above extract fan connections and anti-vibrations mountings. As "woods aerofoil axial flow" running speed 1420 rpm or equal and approved. Power input to be 0.2kW max	7	No		
J	Flexible Connection The flexible connection shall be rubber bellows or neoprene and not canvas to isolate vibrations from the air conditioning unit or fans from the interconnecting duct work.	266	SM		
K	Electrical Works Allow for electrical works associated with installation of out door and indoor units and control network	7	No		
L	TESTING AND COMMISSIONING Allow for Testing and commissioning of the entire system	Item	1		
MRAC /452	TOTAL FOR AIR CONDITIONING WORKS CARRIED TO SUMMARY PAGE				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>AIR CONDITIONING COLLECTION SUMMARY</u>				
1	BAHARI HOSTELS BHAC/444				
2	SABAKI HOSTELS SHAC/446				
3	GALANA HOSTELS GHAC/448				
4	MZIMA HOSTELS MZAC/450				
5	MARERE HOSTELS MRAC/452				
ACW/451	Total carried to Grand Summary				-

BILL NO. 8

FURNITURE WORKS

S.No	PARTICULARS	QTY	UNIT	RATE	AMOUNT
A	Rest Room bed with mounted panel, Mattress + Head Pillow and one No. bed Spread Supplying of Overall dimensions: 1200-1300(W) x 2046(L) x 762(H) made out of PLPB 18-25mm thick shall be made of superior quality particle board of grade II, type II, confirming to IS : 12823 of approved shade. will be cladded with special post forming laminated of thickness 0.62X0.8mm. All exposed edges of table shall have 2mm thick Hot melt PVC banding including 150mm thick spring Mattress of approved brand with 2 no Head pillow and one no bed spread.	258.00	No.		
B	Executive Chair High Back Supplying of Ergonomically designed high back executive revolving chair with molded foam seat and back, upholstered with specially developed low pilling permeable upholstery, user friendly concealed bio-synchro mechanism with one position locking and hydro pneumatic system for height adjustment. The chair has five prongs nylon base with premium quality castors.	258.00	No.		
C	Wall hug Table Supplying center table of size 700 x 1350 x 430mm (H) with 25mm thick top and sides made of superior quality 25mm thick particle board of grade II, type II confirming to IS: 12823 of approved shade. The top and side panels will be cladded with special post forming laminated of thickness 0.62X0.8mm. Leg with cut to shape as per design.	258.00	Nos.		
D	Storage in Nitch 1800 x 400 x 750mm (H) shelves (PreLam Board) Supplying of SWING DOOR STORAGE UNIT- The carcass is made out of 18mm thick PLPB top, sides, door, shelves and 9mm thick PLPB board with both side laminate with. The doors are made up of 18mm thick PLPB with hinges, handles & locks. The Storage unit is provided with Levelers for Height adjustment with the help of levelers.	258.00	Nos.		
E	SMART TV Supplying of Samsung 43-inch DU7010 Crystal UHD 4K Smart TV Display: 43 Inch 4K (3,840 x 2,160), Processor: Crystal Processor 4K, Video: 4K Upscaling, Motion Xcelerator, Audio: Adaptive Sound, OTS Lite, Q-Symphony, OS: Tizen™ Smart TV, Gaming: ALLM, VRR, HGiG, Connectivity: Wi-Fi 5, BT5.2, USB-A	258.00	Nos.		
F	Wall hug tv Table Supplying Wall hug tv Table of size 700 x 1350 x 430mm (H) with 25mm thick top and sides made of superior quality 25mm thick particle board of grade II, type II confirming to IS: 12823 of approved shade. The top and side panels will be cladded with special post forming laminated of thickness 0.62X0.8mm. Leg with cut to shape as per design.	258.00	Nos.		
G	Movable sides of bed Table Supplying center table of size 700 x 1350 x 430mm (H) with 25mm thick top and sides made of superior quality 25mm thick particle board of grade II, type II confirming to IS: 12823 of approved shade. The top and side panels will be cladded with special post forming laminated of thickness 0.62X0.8mm. Leg with cut to shape as per design.	258.00	Nos.		
H	Hall hang accessories	258.00	Nos.		
I	Soap dish holder	258.00	Nos.		
J	shower holders	258.00	Nos.		
FWK/453	TOTAL FOR FURNITURE CARRIED TO COLLECTION SUMMARY				

BILL NO.9

CIVIL WORKS

KENYA SCHOOL OF GOVERNMENT ACCESS ROADS MAIN WORKS

BILLS OF QUANTITIES

KSG ACCESS ROADS MAIN WORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Bill No. 1	Culvert and Drainage Works				
1.10	Provide, lay, joint and backfill with suitable material 450mm I.D concrete pipe culverts for service duct (each estimated to be 8.0m long) as instructed by the engineer. Rate to include concrete surrounds and 2No. Marker posts	No.	1.00		
1.20	Excavation in soft material for pipe culverts, headwalls, wingwalls, apron, toe walls and drop inlets, and compaction of excavated ground as specified or as instructed by the Engineer	m3	55.56		
1.30	E.O Item 8.02 in hard material	m3	10.00		
1.40	(a) Excavate for side drains as shown in the drawings or as instructed by the Engineer	m3	720.00		
	(b) Construct outfall drains to direct storm water as instructed by the Engineer	m3	1,500.00		
1.50	Provide, lay and joint 600 mm diameter pipe culverts for access roads as instructed by the Engineer	m	10.00		
1.60	Provide, lay and joint 900 mm diameter pipe culverts for access and cross culverts as instructed by the Engineer	m	12.00		
1.70	Provide and place class 15/20 concrete to beds, surround and haunches for culverts and side drains	m3	8.00		
1.80	Provide place and compact class 20/20 concrete for Side Drains as indicated in the drawings or as instructed by the Engineer.	m3	5.00		
1.90	Provide place and compact class 25/20 concrete for headwalls, wingwalls, aprons and toe walls to pipe culverts including all form work and the provision and placing of reinforcement as shown in the drawings	m3	6.00		
CW/455	TOTAL CARRIED TO SUMMARY PAGE				

[illegible]

[illegible]

[illegible]

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Bill No. 5	Road Furniture				
5.10	Provide and place kerbs and channels as shown in the drawings or as directed by the Engineer				
	(a) Kerb Type 1A(250mm x 125mm)	m	1,200.00		
	(b) Channel Type 1A(100mm x 125mm)	m	1,200.00		
	(C) Pavers Type 1A(600mm x 600mm)	m2	1,200.00		
5.20	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade (ASTM 9) for road marking on bituminous surface in centre line 100mm, edge line 100mm wide 3.0mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic material including cleaning the surface of all dirt, dust, and other foreign matter, demarcation at site/premarking, finishing and managing the traffic control etc.complete. Marking to be done as per specifications, detailed drawings and as instructed by the Engineer				
	(i) For edge lines (continuous) and bumps with white paint, 100 mm wide	m2	540.00		
	(iv) For centre lines (broken line) with yellow paint, 100 mm wide	m2	270.00		
5.30	Providing and laying hot applied thermoplastic road marking compound in approved colour and shade (ASTM 9) for road marking on bituminous road surface in pedestrian crossings, chevrons, directional arrows,giveway and stop lines etc, 3.0 mm thick using fully automatic extrusion machine and using premelter for melting thermoplastic. Material, including dispensing drop on glass beads of approved make and as per BS 6088 at the rate 250 gms per sqm. including cleaning the surface of all dirt, dust, and other foreign matter, demarcation at site/ premarking, finishing and managing the traffic control etc.complete. Marking to be done as per specifications, drawings and as instructed by the Engineer(including the existing carriageway)	m2	50.00		
	Permanent Road Signs				
20.40	Supplying and fixing cautionary/warning road sign boards made up with high intensity grade retro-reflective type sheeting (ASTM 9) complete as per drawing and technical specifications, or as instructed by the Engineer	No.	5.00		
CW/459	TOTAL CARRIED TO SUMMARY PAGE				

[illegible]

BILL NO. 10

MANAGEMENT LAPTOPS

Item	Description	Unit	Qty	Rate (KES)	Total (KES)
2	Laptop Technical Specifications • Processor Intel® Core™ Ultra 7 258V Processor Operating System Windows 11 Pro Graphics Integrated Graphics Memory 32GB LPDDR5X 8533MHz dual channel Storage 1TB PCIe M.2 Battery 75W/hr Audio □ 2 x 2W tweeters, 2 x 3W woofers • Dolby Atmos® • Smart Amp Camera □ Camera-under-display design • 32M camera • E-shutter • 4 x mic array Ports/Slots 2 x USB-C® Thunderbolt 4 (40Gbps) Wireless □ WiFi 7 • Bluetooth® 5.3 Display 14" 4K (3840 x 2400), 120Hz, 16:10, PureSight Pro, OLED, 750 nits peak brightness, Delta E<1, 100% sRGB, 100% P3, 100% Adobe RGB, Dolby Vision®, VESA Certified DisplayHDR™ True Black 600, TÜV Low Blue Light Certification, Eyesafe® Certification, glass touchscreen Display 14" 4K (3840 x 2400), 120Hz, 16:10, PureSight Pro, OLED, 750 nits peak brightness, Delta E<1, 100% sRGB, 100% P3, 100% Adobe RGB, Dolby Vision®, VESA Certified DisplayHDR™ True Black 600, TÜV Low Blue Light Certification, Eyesafe® Certification, glass touchscreen Dimensions (H x W x D) 312.93mm x 203.5mm x as thin as 14.55mm / 12.32" x 8.01" x as thin as 0.57" Keyboard Premium Suite keyboard Supply and delivery	No.	5		
1	Laptop Technical Specifications • Processor: Intel® Core™ Ultra 7 255H processor • Operating System: Windows 11 Pro • Neural Processing Unit (NPU): 13 trillion operations per second (TOPS) AI performance • Graphics: UMA: Integrated Graphics • Memory: 24GB LPDDR5X (6400MHz), dual channel • Storage: 1TB M.2 PCIe Gen4 SSD TLC (2242) • Battery: □ 57W/hr Supports Rapid Charge Boost (15 minutes = 2 hours capacity) • Audio: □ Dolby Audio™ 2x2W speakers Dual-array mics • Camera : 1080p FHD Infrared (IR) Camera with webcam privacy shutter • Ports/Slots: Left: • 2 x USB-C® (USB 10Gbps) with power delivery 3.1 • HDMI® 1.4 (supports resolution up to 4K@30Hz) • Headphone / mic combo Right: • Power button • 2 x USB-A (USB 5Gbps) Micro SD Card Reader • Wireless: WiFi 7* with Bluetooth® 5.4 Display : 14" WQXGA (1920 x 1200) OLED, 16:10 aspect ratio, 400nit, 60Hz, 100% DCI-P3, TÜV Rheinland Low Blue Light (hardware/software controlled) Dimensions (H x W x D) : 17.5mm x 313mm x 227mm / 0.68" x 12.32" x 8.93" Pen: Base Pen 3.0 Supply and delivery	No.	50		
LPT/462	Total carried forward to Grand Summary				

PROVISIONAL SUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PROVISIONAL SUMS</u> <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.</u> <u>CONTINGENCIES</u>				
A	Allow a provisional sum of Kenya Shillings Fifty Million (Kshs.50,000,000.00) only for the contingencies to be spent as directed by the Project Manger		ITEM		50,000,000.00
B	Allow a provisional sum of Kenya Shillings Ten Million (Kshs.10,000,000.00) only for the Project Management Expenses for State Department for Public Works Officers		ITEM		10,000,000.00
C	Allow a provisional sum of Kenya Shillings Fifty Million (Kshs.50,000,000.00) only for the CCTV to be spent as directed by the Project Manger		ITEM		50,000,000.00
PVS/464	Total Provisional Sums carried to Grand Summary				110,000,000.00

GRAND SUMMARY

GRAND SUMMARY FOR ALL BILLS				
ITEM	DESCRIPTION	PAGE NO.	AMOUNT (KSHS)	OFFICIAL USE ONLY
1	Total for Bil No.1-Particular Preliminaries	PP/16		
2	Total For Bill No.2- General preliminaries	GP/28		
3	Total for Bill No.3- Builders Works	B.W/149		
4	Total for Bill No.4- Electrical Works	BNE/274		
5	Total for Bill No.5- Mechanical Works	MBM/409		
6	Total for Bill No.6- Solar Water Heater Works	SW5/441		
7	Total for Bill No.7- Air Conditioning Works	ACW/451		
8	Total for Bill No.8- Furniture Works	FWK/453		
9	Total for Bill No.9- Civil Works	CW/460		
10	Total for Bill No.10- Laptops supply Work	LPT/462		
11	Provisional Sums	PVS/464		
	SUB TOTAL			
	ADD VAT 16 %			
	ADD PPRA LEVY 0.03 %			
	GRAND TOTAL CARRIED TO FORM OF TENDER			

Amount of tender in words:

.....

Tenderer's signature and stamp.....

Address.....

Date.....

Witness: Name and signature.....

Address.....

Date.....

PART 3: CONDITIONS OF CONTRACT AND CONTRACT FORMS

SECTION VI - GENERAL CONDITIONS OF CONTRACT

1. GENERAL PROVISIONS

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” means the date of completion of the Works as certified by the Engineer.

“Contract Price” means the price defined in the contract and thereafter 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 time by 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 or a Section (as the case maybe) 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 [Application for Final Payment Certificate]. **“Force Majeure”** is defined in Clause 19 [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.

“Tests on Completion” means the tests which are specified in the Contract 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

1.3.1 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, sent or transmitted to the address for 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 address from which the request was issued.

1.3.2 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 form annexed 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.

1.8.2 Each of the Contractor's Documents shall be in the custody and care of the Contractor, unless and until taken over by the Procuring Entity. Unless otherwise stated in the Contract, the Contractor shall supply to the Architect two copies of each of the Contractor's Documents.

1.8.3 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, the Party shall promptly give notice to the other Party of such error or defect.

1.9 Timely provision of Drawings or Instructions

- 1.91 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.
- 1.93 After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 1.94 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 As agreed 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.
- 1.10.3 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 Entity for 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.
- 1.12.2 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 permit or 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 ineligibility pursuant to the Procuring Entity's prevailing sanctions procedures).

2 THE PROCURING ENTITY

2.1 Right of Access to the Site

- 2.1.1 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 any foundation, 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.
- 2.1.2 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 program submitted under Sub-Clause 8.3 [Program].
- 2.1.3 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.
- 2.1.5 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

- 2.2.1 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's Personnel

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 actions similar 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].

2.4 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 Clause 14 [Contract Price and Payment].

3. THE ENGINEER

3.1 Architect Duties and Authority

3.1.1 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**.

3.1.2 The Architect shall have no authority to amend the Contract.

3.1.3 The Architect May exercise the authority attributable to the Architect as specified in or necessarily to be implied from the Contract. If the Architect is 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 approval is required, then (for the purposes of the Contract) the contractor shall require the Architect to provide evidence 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 shall be deemed to act for the Procuring 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) any act 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-Clause 13.4: Specifying the amount payable in each of the applicable three currencies.

- 3.1.7 Notwithstanding 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

- 3.2.1 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].
- 3.2.2 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.

3.3 Instructions of the Engineer

- 3.3.1 The Architect may issue to the Contractor (at any time) instructions and additional or modified Drawings which may be necessary 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.
- 3.3.2 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 Architect or 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

- 3.5.1 Whenever these Conditions provide that the Architect shall proceed in accordance with this Sub-Clause 3.5 to agree or 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 agreed 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, and shall remedy any defects in the Works.
- 4.1.2 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 design or specification of the Permanent Works.
- 4.1.5 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 Architect the "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

- 4.2.1 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.
- 4.2.2 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.
- 4.2.3 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.
- 4.2.4 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.
- 4.2.5 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.
- 4.2.6 The Procuring Entity shall return the Performance Security to the Contractor within 14 days after receiving a copy of the Taking-Over Certificate.
- 4.2.7 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.

4.3 Contractor's Representative

- 4.3.1 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**.
- 4.3.2 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 withheld 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 another suitable person for such appointment.
- 4.3.3 The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the Contractor's Representative or appoint a replacement.
- 4.3.4 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.

- 43.5 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-Clause 1.4 [Law and Language]. If the Contractor's Representative's delegates are not fluent in the said language, the Contractor shall make competent interpreters available 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.
- 44.2 The Contractor shall be responsible for the acts or defaults of any Subcontractor, his agents or employees, as if they were the acts 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].
- 44.3 The Contractor shall ensure that the requirements imposed on the Contractor by Sub-Clause 1.12 [Confidential Details] apply equally to each Subcontractor.
- 44.4 Where practicable, the Contractor shall give fair and reasonable opportunity for contractors from Kenya to be appointed as Subcontractors.

4.5 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.

4.6.2 Any such instruction shall constitute a Variation if and to the extent that it causes the Contractor to suffer delays and/or to incur 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.

4.6.3 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 Contract 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.

4.7.2 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.

4.7.3 If the Contractor suffers delay and/or incurs Cost from executing work which was necessitated by an error in 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 this.

4.8 Safety Procedures

The Contractor shall:

- a) Comply with all applicable safety regulations,
- b) Take care 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

4.9.1 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.

4.9.2 Details of all procedures and compliance documents shall be submitted to the Architect for

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 The Contractor 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].
- 4.11.2 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 shall describe 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.
- 4.12.5 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.
- 4.12.6 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 Contractor when 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 outside 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 between 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 availability 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.
- 4.18.2 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.
- 4.18.3 The Contractor shall 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

- 4.20.1 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 Entity shall 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.
- 4.20.1 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-Clause 3.5 [Determinations]. The Contractor shall pay these amounts to the Procuring Entity.
- 4.20.2 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, defect or default.
- 4.20.3 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

- 4.21.1 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.
- 4.21.2 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 [Nominated Subcontractors]),
 - 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

- 4.23.1 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 adjacent land.
- 4.23.2 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.
- 4.23.3 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

- 4.24.1 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.
- 4.24.2 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].

5.2 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

5.4.1 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

6.2.1 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 the Contractor.

6.2.2 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.

6.5 Working Hours

No work 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

6.7.1 The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health 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.

6.7.2 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 whatever is required by this person to exercise this responsibility and authority.

6.7.3 The Contractor shall send, to the Engineer, details of any accident as soon as practicable after its occurrence. 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 program 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

6.8.1 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 superintendent to plan, arrange, direct, manage, inspect and test the work.

6.8.2 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

6.9.1 The Contractor's Personnel shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Contractor's 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 incompetently 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.

6.9.2 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.

6.12.2 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 Site an 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 thereof 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 employment or 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.

7.3 Inspection

7.3.1 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.

7.3.2 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.

7.3.3 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.

7.4.2 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 place for the 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, notwithstanding 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.
- 7.4.5 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.
- 7.4.6 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 the specified tests have been passed, 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.

7.5 Rejection

- 7.5.1 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.
- 7.5.2 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 Notwithstanding any previous test or certification, the Architect may instruct the Contractor to:
- 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 accident, unforeseen able event or otherwise.
- 7.6.2 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).
- 7.6.3 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.
- 7.6.4 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 incorporated 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 or man-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 have 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.

8.1.2 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-Clause 6.2 [Termination by Contractor].

8.1.3 The Contractor shall commence the execution of the Works as soon as is reasonably practicable after the Commencement Date and shall then 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 Tests on 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].

8.3 Program

8.3.1 The Contractor shall submit a detailed time program to the Architect within 4 days after receiving the notice under Sub-Clause 8.1 [Commencement of Works]. The Contractor shall also submit a revised program whenever the previous program is inconsistent with actual progress or with the

Contractor's obligations. Each program 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.

- 8.3.2 Unless the Engineer, within 14 days after receiving a program, 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 program, subject to his other obligations under the Contract. The Procuring Entity's Personnel shall be entitled to rely upon the program when planning their activities.
- 8.3.3 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.
- 8.3.4 If, at any time, the Architect gives notice to the Contractor that a program 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 program to the Architect in accordance with this Sub-Clause.

8.4 Extension of Time for Completion

- 8.4.1 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.
- 8.4.2 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 any time:
- 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 program under Sub-Clause 8.3

[Program], 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 [Program], a revised program 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.

8.6.2 Unless the Architect notifies otherwise, the Contractor shall adopt these revised methods, which may require 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.

8.6.3 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

8.7.1 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.

8.7.2 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

8.8.1 The Architect may at any time 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 against any deterioration, loss or damage.

8.8.2 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

8.9.1 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.

8.9.2 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

8.9.3 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 Prolonged Suspension

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 Architect an 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].

9.1.2 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.

9.1.3 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.
- 92.2 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 Tests on such day or days within that period as the Contractor may fix and of which he shall give notice to the Engineer.
- 92.3 If the Contractor fails to carry out the Tests on Completion within the period of 21 days, the Procuring Entity's Personnel may proceed with the Test at 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 as accurate.

9.3 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

- 9.4.1 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-Clause 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.
- 10.1.2 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 Contractor may similarly apply for a Taking-Over Certificate for each Section.
- 10.1.3 The Architect shall, within 30 days after receiving the Contractor's application:
- a) Issue the Taking-Over Certificate to the Contractor, stating the date on which the Works or Section were completed in accordance with the Contract, except for any minor outstanding 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

- 10.2.1 The Architect may, at the sole discretion of the Procuring Entity, issue a Taking-Over Certificate for any part of the Permanent Works.
- 10.2.2 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.
- 10.2.3 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.
- 10.2.4 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.
- 10.2.5 If a Taking-Over Certificate has been issued for a part of the Works (other than a Section), the delay damages thereafter 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.

10.3 Interference with Tests on Completion

- 10.3.1 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.
- 10.3.2 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.

- 10.3.3 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.
- 10.3.4 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 (fair wear and tear excepted) by the expiry date of the relevant Defects Notification Period or as soon as practicable thereafter, 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).

- 11.1.2 If a defect appears or damage occurs, the Contractor shall be notified accordingly by the Engineer.

11.2 Cost of Remedying Defects

- 11.2.1 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.

- 11.2.2 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.

11.3 Extension of Defects Notification Period

- 11.3.1 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.

- 11.3.2 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 apply to any defects or 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.
- 11.4.2 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 [Cost of 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 Contract as 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.
- 11.6.2 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

Until the 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 defect on 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.

11.9 Completion Certificate

11.9.1 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.

11.9.2 The Architect shall issue the Completion Certificate within 30 days after the latest of the expiry dates of the Defects Liability Period, or as soon thereafter 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 Completion Certificate shall be issued to the Procuring Entity.

11.9.3 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.

11.11.2 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.

11.11.3 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 DEVALUATION

12.1 Works to be Measured

12.1.1 The Works shall be measured, and valued for payment, in accordance with this Clause. The Contractor shall 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.

12.1.3 If the Contractor fails to attend or send a representative, the measurement made by the Architect shall be accepted as accurate.

12.14 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 agree the records 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 payment of the 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.

12.3 Evaluation

12.3.1 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 work done 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.

12.3.2 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.

12.3.3 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.

12.3.4 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.

12.3.5 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.

12.3.6 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.

12.3.7 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 plus or minus percentage. The percentage already worked out during tender evaluation is worked out as follows: (corrected tender price– tender price)/ tender price X 100.

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, would have been 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.

13.1.2 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 other characteristics 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.

13.1.4 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.

13.2 Variation Order Procedure

13.2.1 Prior to any 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 program for its execution, and
- b) the Contractor's proposals for any necessary modifications to the Program 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.

13.2.2 Disagreement on Adjustment of the Contract Price

If the Contractor and the Architect are 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 Materials or Schedule of Daywork Prices. If the rates contained in the Bills of Materials or Daywork 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 Daywork 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 under-recovery 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 Works rendered 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 Program, and
- d) the net effect of the Contractor's finance costs, 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.

13.2.3 Contractor to Proceed

On receipt of a Variation Order, the Contractor shall forthwith 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-Clause 31.3.

13.3 Value Engineering

13.3.1 The Contractor may, at any time, 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].

13.2.3 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 be half (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 writing as 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 program for its execution,
- b) the Contractor's proposal for any necessary modifications to the program according to Sub-Clause 8.3 [Program] and to the Time for Completion, and
- c) the Contractor's proposal for evaluation of the Variation.

13.4.2 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 awaiting a response.

13.4.3 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.

13.4.4 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.

13.5 Payment in 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 in part, in accordance with the Architect instructions, and the Contract Price shall be adjusted accordingly. The total sum paid to the Contractor shall include only such 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, Materials or 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.

- 13.6.2 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.
- 13.7.2 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.
- 13.7.3 Except for any items for which the Daywork Schedule specifies that payment is not due, the Contractor shall deliver each 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].

13.8 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.
- 13.8.2 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.
- 13.8.3 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 13.8.4 Notwithstanding 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].

13.9 Adjustments for Changes in Cost

- 13.9.1 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.
- 13.9.2 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 amounts to cover the contingency of other rises and falls in costs.
- 13.9.3 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:

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

where:

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

A and **B** are coefficients **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 **I_o** 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 is added to the Contract Price.

- 13.9.4 The cost indices or reference prices stated in the table of adjustment data shall be used. If their source is in doubt, it shall 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.
- 13.9.5 In cases 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.

- 13.9.6 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.
- 13.9.7 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 applicable on 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 inapplicable, 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 Clause 12 [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.

- 14.1.2 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

- 14.2.1 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**.

- 14.2.2 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.

- 14.2.3 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 advance 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.

- 14.2.4 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.
- 14.2.5 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.
- 14.2.6 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 case 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

- 14.3.1 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 a form 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 the report on the progress during this month in accordance with Sub-Clause 4.21 [Progress Reports].
- 14.3.2 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);
 - b) 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

14.4.1 If the 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.

14.4.2 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

14.5.1 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].

14.5.2 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.

14.5.3 The Architect shall determine and certify each addition if the following conditions are satisfied:

- 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-Clause 14.2 [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.

14.5.5 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 Statement if any.

14.6.2 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.

14.6.3 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], whichever 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 [Termination by Contractor].

- 14.7.2 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 is issued.
- 14.8.2 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.
- 14.8.3 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

- 14.9.1 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 be half (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 be half (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 Architect shall 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].
- 14.9.5 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.
- 14.10.2 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 becomes 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 outstanding 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 30 days 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.

14.13.2 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 the Contractor 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 indemnification 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) other payments 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 sub-paragraph (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

15.2.1 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 these acts 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, in competing for or in executing the Contract.

15.2.2 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.

15.2.3 The Procuring Entity's election to terminate the Contract shall not prejudice any other rights of the Procuring Entity, under the Contractor otherwise.

15.2.4 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.

152.5 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.

152.6 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.

15.3 Valuation at Date of Termination

As soon 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 [Procuring 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.

15.5 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-Clause in 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 do or 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 maybe and as described in the notice.

16.1.2 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 [Termination by Contractor].

16.1.3 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/or incurs 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.

16.2 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

16.3 Termination by Contractor

16.3.1 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-Clause 14.7 [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].

16.3.2 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.

16.3.3 The Contractor's election to terminate the Contract shall not prejudice any other rights of the Contractor, under the Contract 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.

16.5 Payment on Termination

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 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 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

- 17.2.1 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.
- 17.2.2 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.
- 17.2.3 If any loss or damage happens to the Works, Goods or Contractor's Documents during the period when the Contractor is responsible 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.
- 17.2.4 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.

17.3 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, radiation 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

- 17.4.1 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.
- 17.4.2 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 Time for Completion], and
 - (b) Payment of any such Cost, which shall be included in the Contract Price. In the case of subparagraphs (e) and (g) of Sub-Clause 17.3 [Procuring Entity's Risks], Accrued Costs shall be payable.
- 17.4.3 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

- 17.5.1 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.
- 17.5.2 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.
- 17.5.3 The Procuring Entity shall indemnify and hold the Contractor harmless against and from any claim alleging an infringement which is or was:
- a) An unavoidable result of the Contractor's compliance with the Contract, or
 - b) A result of any Works being used 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.
- 17.5.4 The Contractor shall indemnify and hold the Procuring Entity harmless against and 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.
- 17.5.5 If a Party is entitled to be indemnified 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.

- 17.5.6 For operation and maintenance of any plant or equipment 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 any works, 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].
- 17.6.2 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.
- 17.6.3 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

- 17.7.1 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).
- 17.7.2 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.
- 18.1.2 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.
- 18.1.4 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.
- 18.1.5 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.
- 18.1.9 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.
- 18.1.10 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 or 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.

18.2 Insurance for Works and Contractor's Equipment

- 18.2.1 The insuring Party shall insure the Works, Plant, Material and 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.
- 18.2.2 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]).
- 18.2.3 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.
- 18.2.4 Unless otherwise stated in the Special Conditions, insurances under 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, 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, this 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) a part of the Works which is lost or damaged in order 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) a part 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].
- 18.2.5 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].

18.3 Insurance against Injury to Persons and Damage to Property

- 18.3.1 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.
- 18.3.2 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.
- 18.3.3 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.
- 18.4.2 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 Contractor or any other of 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 overcome, and
 - d) which is not substantially attributable to the other Party.
- 19.1.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long 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 lockout by persons other than the Contractor's Personnel,
 - d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as maybe attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
 - e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.

19.2 Notice of Force Majeure

- 19.2.1 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.
- 19.2.2 The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.
- 19.2.3 Notwithstanding 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.

19.3 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-Clause 18.2 [Insurance for Works and Contractor's Equipment].
- 19.4.2 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

19.5 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

19.6.1 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].

19.6.2 Upon such termination, the Architect shall determine the value of the work done and issue a Payment Certificate which shall include:

- a) the amount payable for any work carried out for which a price is stated in the Contract;
- 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

Notwithstanding 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 Party of such event or circumstance:

- 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 Notice to the Engineer, 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 The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at another location acceptable to the 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 42 days after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the 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 event or 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.
- 20.17 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.

202 Procuring Entity's Claims

- 202.1 If the Procuring Entity considers itself to be entitled to any payment under any Clause of these Conditions or 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.
- 202.2 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.
- 202.3 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].
- 202.4 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.

203 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 arbitration after 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.

204 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.

205 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.

- 20.5.2 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.
- 20.5.3 Notwithstanding the issue of a notice as stated above, the arbitration of such a claim or dispute shall not commence unless an attempt has in the first instance been made by the parties to settle such claim or dispute amicably with or without the assistance of third parties. Proof of such attempt shall be required.
- 20.5.4 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 award any sums which ought to have been the subject of or included in any certificate.
- 20.5.5 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.
- 20.5.6 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.
- 20.5.7 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.
- 20.5.7 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.
- 20.5.8 The terms of the remuneration of each or all the members of Arbitration shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration.

20.6 Arbitration with National Contractors

- 20.6.1 If the Contract is with national contractors, arbitration proceedings will be conducted in accordance with the Arbitration Laws of Kenya. In case of any claim or dispute, such claim or dispute shall be notified in writing by either party to the other with a request to submit it to arbitration and to concur in the appointment of an Arbitrator within thirty days of the notice. The dispute shall be referred to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed, on the request of the applying party, by the Chairman or Vice Chairman of any of the following professional institutions;
- i) Architectural Association of Kenya
 - ii) Institute of Quantity Surveyors of Kenya
 - iii) Association of Consulting Engineers of Kenya
 - iv) Chartered Institute of Arbitrators (Kenya Branch)
 - v) Institution of Engineers of Kenya
- 20.6.2 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.

20.7.2 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-Clause 1.4 [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 Failure to Comply with Arbitrator's Decision

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

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

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 the Procuring Entity shall pay the Contractor any monies due the Contractor.

SECTION VII - SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract (SCC) shall supplement and/or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

Conditions	Sub-Clause	Data
Part A - Contract Data		
Procuring Entity's name and address	Heading	Kenya School of Government
Name and Reference No. of the Contract	Heading and 1.1	Proposed Rehabilitation of Buildings at Kenya School of Government, Mombasa Campus. Tender No: KSG/MSA/01/2025-2026
Engineers Name and address	Heading and 3.1.1	The Regional Works Officer, State Department for Public Works of P.O. Box 42267 - 00100
Contractor's Representative's name	4.3.1	To be agreed with the Engineer
Key Personnel names	16.9.1	To be agreed with the Engineer
Time for Completion	1.1.	104 Weeks
Defects Notification Period	1.1	180 days
Time for the Parties entering into a Contract Agreement	1.6	Within 30days
Commencement Date	8.1.1	To be agreed with the Engineer
Time for access to the Site	2.1.1	To be agreed with the Engineer
Architect Duties and Authority	3.1.6 (b) (ii)	Any Variations beyond the accepted contract Amount shall require approval from the procurement entity
Performance Security	4.2.1	The performance security will be in the form of a performance bond in the amount of 5% of the accepted Amount in the same currency(ies) of the accepted contract amount
Normal working hours	6.5	To be agreed with the Engineer
Delay damages for the Works	8.7 & 14.15(b)	0.0015% of the Contract price per day
Maximum amount of delay damages	8.7.1	5% of the final contract price
Provisional Sums	13.6. (b)(ii)	As indicated in the bills of quantities
Adjustments for Changes in Cost	13.9	Period "n" applicable to the adjustment multiplier "Pn": 12months
Total advance payment	14.2.1	Not Applicable
Repayment amortization rate of advance payment	14.2.5 (b)	Not Applicable
Percentage of Retention	14.3.2 (c)	10%
Limit of Retention Money	14.3.2 (c)	5 % of the Accepted Contract Amount
Plant and Materials	14.5.3(b)(i)	Not Applicable
	14.5.3(c)(i)	Not Applicable
Minimum Amount of Interim Payment Certificates	14.6.2	Not Applicable

Conditions	Sub-Clause	Data
Publishing source of commercial interest rates for financial charges in case of delayed payment	14.8	annual rate of three percentage points above the mean lending rate of the Central Bank in Kenya of the currency of payment
Maximum total liability of the Contractor to the Procuring Entity	17.6.2	As per applicable laws
Periods for submission of insurance: a. evidence of insurance. b. relevant policies	18.1.6	14 days 14 days
Maximum amount of deductibles for insurance of the Procuring Entity's risks	18.2.4 (d)	As per applicable laws
Minimum amount of third-party insurance	18.3.2	As per applicable laws
The place of arbitration	20.7.2	As per applicable laws

SECTION X- CONTRACT FORMS

FORM No. 1 - NOTIFICATION OF INTENTION TO AWARD

FORM NO. 2 – REQUEST FOR REVIEW

FORM No. 3-LETTEROF 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. Date of transmission: *[email]* on *[date]* (local time)

This Notification is sent by (Name and designation) _____

3. Notification of Award

- i) Procuring Entity: *[insert the name of the Procuring Entity]*
- ii) Project: *[insert name of project]*
- iii) Contract title: *[insert the name of the contract]*
- iv) ITT No: *[insert ITT reference number from Procurement Plan]*

This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The transmission of this Notification begins the Standstill Period. During the Standstill Period, you may:

4. Request a debriefing in relation to the evaluation of your tender 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 _____

iii) Contract price of the successful Tender Kenya Shillings _____
(in words _____)

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

c) Other Tenderers

Names of all Tenderers that submitted a Tender. If the Tender's price was evaluated include the evaluated price as well as the Tender price as read out.

S No	Name of Tender	Tender Price as read out	Tender's evaluated price (Note a)	One Reason Why Not Evaluated
1				
2				
3				
4				
5				

(Note a) State NE if not evaluated

5. How to request a debriefing

- a) DEADLINE: The 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 receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (3) Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end.
- e) The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.
- f) If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Days from the date of publication of the Contract Award Notice.

6. How to make a complaint

- a) Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, *[insert date]* (local time).
- b) Provide the contract name, reference number, name of the Tenderer, contact details; and address the Procurement-related Complaint as follows:
 - i) Attention: *[insert full name of person, if applicable]*
 - ii) Title/position: *[insert title/ position]*
 - iii) Agency: *[insert name of Procuring Entity]*
 - iv) Email address: *[insert email address]*
- c) At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.

- d) Further information: For more information refer to the Public Procurement and Disposals Act 2015 and its Regulations available from the Website www.ppra.go.ke.

You should read these documents before preparing and submitting your complaint.

- e) There are four essential requirements:
- i) You must be an 'interested party'. In this case, that means a Tenderer who submitted a Tender in this tendering process and is the recipient of a Notification of Intention to Award.
 - ii) The complaint can only challenge the decision to award the contract.
 - iii) You must submit the complaint within the period stated above.
 - iv) You must include, in your complaint, all of the information required to support your complaint.

7. Standstill Period

- i) DEADLINE: The Standstill Period is due to end at midnight on [*insert date*] (local time).
- ii) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention to Award.
- iii) The Standstill Period may be extended as stated in paragraph Section 5(d) above.

If you have any questions regarding this Notification please do not hesitate to contact us. On behalf of the Procuring Entity:

Signature: _____

Name: _____

Title/position: _____

Telephone: _____

Email: _____

FORM NO. 2- REQUEST FOR REVIEW

FORM FOR REVIEW (r.203(1))

PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

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

BETWEEN

..... APPLICANT

AND

.....RESPONDENT (Procuring Entity)

Request for review of the decision of the..... (Name of the Procuring Entity of dated the...day of 20.....in the matter of Tender No.....of 20.... for (Tender description).

REQUEST FOR REVIEW

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

1.

2.

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

1.

2.

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

FOR OFFICIAL USE ONLY Lodged with the Secretary Public Procurement Administrative Review Board on.....day of 20.....

SIGNED

Board Secretary

FORM NO 3: LETTER OF AWARD

letterhead paper of the Procuring Entity]
[date]

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

This is to notify you that your Tender dated *[date]* for execution of the *[name of the Contract and identification number, as given in the Contract Data]* for the Accepted Contract Amount *[amount in numbers and words]* *[name of currency]*, as corrected and modified in accordance with the Instructions to Tenderers, is here by accepted by..... *(name of Procuring Entity)*.

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..... 20....., between.....
.....of..... (hereinafter “the Procuring Entity”), of the one part, and.....of.....
.....(hereinafter “the Contractor”), of the other part:

WHEREAS the Procuring Entity desires that the Works known as.....should be executed by the Contractor, and has accepted a Tender by the Contractor for the execution and completion of these Works and the remedying of any defects there in,

The Procuring Entity and the Contractor agree as follows:

- 1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
- 2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
 - a) The Notification 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.

Signed and sealed by.....(for the Procuring Entity)

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

[Option 1 - Unconditional Demand Bank Guarantee]

[Guarantor letterhead]

Beneficiary: [insert name and Address of Procuring Entity]

Date: _____[Insert date of issue]

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

1. We have been informed that _____(hereinafter called "the Contractor") has entered into Contract No. _____dated _____with (name of Procuring Entity) _____(the Procuring Entity as the Beneficiary), for the execution of _____(hereinafter called "the Contract").
2. Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.
3. At the request of the Contractor, we as Guarantor, 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 itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.
4. This guarantee shall expire, no later than the.....Day of.....², and any demand for payment under it must be received by us at the office indicated above on or before that date.
5. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed *[six months]* *[one year]*, in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”
.....

[Name of Authorized Official, signature(s) and seals/stamps]

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

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.

[Option 2– Performance Bond]

[**Note:** Procuring Entities are advised to use Performance Security – Unconditional Demand Bank Guarantee instead of Performance Bond due to difficulties involved in calling Bond holder to action]

[Guarantor letterhead or SWIFT identifier code] **Beneficiary:**

[insert name and Address of Procuring Entity] **Date:**

_____[Insert date of issue]

PERFORMANCE BOND No.:_____

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

1. By this Bond _____ as Principal (hereinafter called “the Contractor”) and _____] as Surety (hereinafter called “the Surety”), are held and firmly bound unto _____] as Oblige (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 available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term “Balance of the Contract Price,” as used in this paragraph, shall mean the total amount payable by Procuring Entity to Contractor under the Contract, less the amount properly paid by Procuring Entity to Contractor; or
 - c) Pay the Procuring Entity the amount required by Procuring Entity to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.
4. The Surety shall not be liable for a greater sum than the specified penalty of this Bond.
5. Any suit under this Bond must be instituted before the expiration of one year from the date of the issuing of the Taking-Over Certificate. No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Procuring Entity named here in or the heirs, executors,

administrators, successors, and assigns of the Procuring Entity.

6. 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 _____ 20____.

SIGNED ON _____ on behalf of _____

By _____ in the capacity of _____

In the presence of _____

SIGNED ON _____ on behalf of _____

By _____ in the capacity of _____

In the presence of _____

FORM NO. 7 - ADVANCE PAYMENT SECURITY

[Demand Bank Guarantee]

[Guarantor letterhead]

Beneficiary: _____ *[Insert name and Address of Procuring Entity]*

Date: _____ *[Insert date of issue]*

ADVANCE PAYMENT GUARANTEE No.: _____ *[Insert guarantee reference number]*

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

1. We have been informed that _____ (hereinafter called "the Contractor") has entered into Contract No. _____ dated _____ with the Beneficiary, for the execution of _____ (hereinafter called "the Contract").
2. Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum _____ (in words _____) is to be made against an advance payment guarantee.
3. At the request of the Contractor, we as Guarantor, here by irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (in words _____)¹ upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:
 - a) Has used the advance payment for purposes other than the costs of mobilization in respect of the Works; or
 - b) Has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.
4. A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Contractor on its account number _____ at _____.
5. The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, less provisional sums, has been certified for payment, or on the _____ day of _____, 20____, 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 payment as 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 execution of _____ *[insert name of contract and brief description of Works]* (hereinafter called "the Contract").
2. Furthermore, we understand that, according to the conditions of the Contract, the Beneficiary retains moneys up to the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, and payment of *[insert the second half of the Retention Money]* is to be made against a Retention Money guarantee.
3. At the request of the Contractor, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* _____ *([insert amount in words _____])*¹ upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating 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] 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 hereby provide the following beneficial ownership information.

Details of Beneficial ownership

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

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

I/ Am fully aware that beneficial ownership information above shall be reported to the Public Procurement Regulatory Authority together with other details in relation to contract awards and shall be maintained in the Government Portal, published and made publicly available pursuant to Regulation 13(5) of the Companies (Beneficial Ownership Information) Regulations, 2020.(Notwithstanding this paragraph Personally Identifiable Information in line with the Data Protection Act shall not be published or made public). *Note that Personally Identifiable Information (PII) is defined as any information that can be used*

to distinguish one person from another and can be used to deanonymize previously anonymous data. This information includes National identity card number or Passport number, Personal Identification Number, Date of birth, Residential address, email address and Telephone number.

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

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

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

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

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

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

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

Date this [insert date of signing] day of..... [Insert month], [insert year]

Bidder Official Stamp

SITE VISIT FORM

SCHEDULE 3: CERTIFICATE OF BIDDER'S VISIT TO SITE

This is to certify that

[Name/s] Of Representative

.....
.....

Being the authorized representative/Agent of [Name of bidder]

.....
...

.....
.....

.....

participated in the organized inspection visit of the site of the works for the

TENDER No. KSG/MSA/01/2025-20265
PROPOSED REHABILITATION OF BUILDINGS AT KENYA SCHOOL OF GOVERNMENT MOMBASA CAMPUS'
.....

Held on.....day.....of 2026

Signed.....

(Employer's Representative)

.....
(Name of Employer's Representative)

.....
(Designation)

Signed.....

(Contractor's Representative)

.....
(Name of Contractor's Representative)

.....
(Designation)

NOTE: This form is to be completed at the time of the organized site visit.