



NAROK COUNTY GOVERNMENT

OPEN TENDER

PROPOSED UPGRADING AND OPERATIONALIZATION OF SOGOO HEALTH CENTRE INTO AMALO
SUB COUNTY HOSPITAL

TENDER NO: NCG/OT/27/2024-2025

TENDER CLOSING DATE 25-09-2024 AT 11:00 AM

THE WORK COMPRISES OF THE FOLLOWING-.

SN	NAME
1.	Construction of OPD block and Associated Works.
2.	Construction of Male, Female, Paedrietic Wards and Associated works.
3.	Construction of Twin Theatre Block and Associated Works.
4.	Construction of Radiology Block and Associated Works.
5.	Construction of Casualty Block and Associated Works.
6.	Construction of CSSD Block and Associated Works.
7.	Construction of Mortuary Block Associated Works.
8,	Construction of 2no 8 doors Ablution Block and Associated Works.
9.	Construction of Septic Tank and Associated Works.
10.	Construction of Perimeter Fence and Associated Works.

INVITATION TO TENDER

Narok County Government
P.O Bos 898
NAROK

Email: www.narok.go.ke

Date: 12TH SEPTEMBER 2024

PROPOSED UPGRADING AND OPERATIONALIZATION OF SOGOO HEALTH CENTRE INTO AMALO SUB-COUNTY HOSPITAL

TENDER NO: NCG/OT/027/2024-2025

1. The NAROK COUNTY GOVERNMENT invites sealed tenders for the above tender.
2. Tendering will be conducted under OPEN Tender Procurement Method using a standardized tender document.
3. Tenderer may obtain further information and inspect the Tender Documents during office hours of 0800hrs to 1600hrs.
4. Tenders shall be quoted be in Kenya Shillings and shall include all taxes. Tenders shall remain valid for 120 days from the date of opening of tenders.
5. Tender documents may be obtained electronically from the website www.narok.go.ke or the PPIP website, www.tenders.go.ke . Tender documents obtained electronically from the two (2) websites will be FREE OF CHARGE. Tenderers downloading documents from the two (2) websites, i.e. www.Narok County.go.ke or the PPIP website, www.tenders.go.ke shall immediately advise the NAROK COUNTY that they have downloaded the tender documents, giving full contact addresses of the tenderer (name of tenderer, email, telephone number and postal address) through submission of their details to the email addresses email: procurement@narok.go.ke
6. All Tenders must be accompanied by a tender security of KSHS 1,400,000 of the tender price.
7. The Tenderer shall chronologically serialize all pages of the tender documents submitted.
8. Completed tenders must be delivered to the address below on or before 1100hrs on 25TH SEPTEMBER, 2024. Electronic Tenders will not be permitted.
9. Tenders will be opened immediately after the deadline date and time specified above or any deadline date and times specified later. Tenders will be publicly opened in the presence of the Tenderers' designated representatives who choose to attend at the address below.
10. Late tenders will be rejected.
11. The addresses referred to above are:
 - A. Address for obtaining further information and for purchasing tender documents

Supplies Chain Management Office
Narok County Government ,
Email. procurement@narok.go.ke

B. Address for Submission of Tenders (office or Tender or Tender Box).

County secretary
Narok County Government
P.O Box 898-20500 Narok

C. Address for Opening of Tenders.

Narok County Assembly Hall 2
Narok County Government
P.O Box 898-20500

Narok

Yours sincerely,
Ag Director Supplies Chain Management Services
Narok County Government,
Email procurement@narok.go.ke

SECTION I: INSTRUCTIONS TO TENDERERS

A General Provisions

1. Scope of Tender

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

2. Fraud and Corruption

- 2.1 Narok County Government 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 Narok County Government 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 (where declared or not), subcontractors, sub-consultants, service providers, suppliers, and their personnel, to permit Narok County Government 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, Narok County Government 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. 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 agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the 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; or
 - b) Receives or has received any direct or indirect subsidy from another tenderer; or
 - c) Has the same legal representative as another tenderer; or
 - d) Has a relationship with another tenderer, directly or through common third parties, that puts it in a position to influence the tender of another tenderer, or influence the decisions of Narok County Government regarding this tendering process; or
 - e) Any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods or works that are the subject of the tender; or
 - f) any of its affiliates has been hired (or is proposed to be hired) by Narok County Government as a consultant for Contract implementation; or
 - g) Would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the contract specified in this Tender Document; or
 - h) Has a close business or personal relationship with senior management or professional staff of Narok County Government 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 conflict stemming from such relationship has been resolved in a manner acceptable to Narok County Government 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 subcontractor 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 subcontractors 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 a Contract(s) only if it is determined by Narok County Government 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 enterprise to enable it compete with firms in the private sector on an equal basis.
- 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, or
 - b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Kenya prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.

A tenderer shall provide such documentary evidence of eligibility satisfactory to the Procuring Entity, as Narok County Government shall reasonably request.

- 3.10 Foreign tenderers are required to source at least forty (40%) percent of their contract inputs (in supplies, local subcontracts 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 Narok County Government determine if this condition is met shall be provided for this purpose in

“SECTION III-EVALUATION AND QUALIFICATION CRITERIA, Item 9”.

- 3.11 Pursuant to the eligibility requirements of ITT4.10, a tender is considered a foreign tenderer, if the tenderer is not registered in Kenya or if the tenderer is registered in Kenya and has less than 51 percent ownership by Kenyan citizens. JVs are considered as foreign tenderers if the individual member firms are not registered in Kenya or if are registered in Kenya and have less than 51 percent ownership by Kenyan citizens. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.
- 3.12 The National Construction Authority Act of Kenya requires that all local and foreign contractors be registered with the National Construction Authority and be issued with a Registration Certificate before they can undertake any construction works in Kenya. Registration shall not be a condition for tender, but it shall be a condition of contract award and signature. A selected tenderer shall be given opportunity to register before such award and signature of contract. Application for registration with National Construction Authority may be accessed from the website www.nca.go.ke.
- 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 a valid tax compliance or valid tax certificate issued by the Kenya Revenue Authority.

4. Eligible Goods, Equipment, and Services

- 4.1 Goods, equipment and services to be supplied under the Contract may have their origin in any country that is not ineligible under ITT3.9. At the Procuring Entity's request, Tenderers may be required to provide evidence of the origin of Goods, equipment and services.
- 4.2 Any goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment shall not be eligible for procurement.

5. Tenderer's Responsibilities

- 5.1 The tenderer shall bear all costs associated with the preparation and submission of his/her tender, and Narok County Government 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 at the tenderer's own expense.
- 5.3 The Tenderer and any of its personnel or agents will be granted permission by Narok County Government to enter up on its premises and lands for the purpose of such visit. The Tenderer shall indemnify Narok County Government against all liability arising from death or personal injury, loss of or damage to property, and any other losses and expenses incurred as a result of the 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. 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 ITT10.

PART 1: Tendering Procedures

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

PART 2: Works' Requirements

- i) Section V: Bills of Quantities
- ii) Section VI: Specifications
- iii) Section VII: Drawings

PART3: Conditions of Contract and Contract Forms

- i) Section VIII: General Conditions (GCC)
- ii) Section IX: Particular Conditions of Contract
- iii) Section X: Contract Forms

6.2 The Invitation to Tender Document (ITT) issued by Narok County Government is not part of the Contract documents.

6.3 Unless obtained directly from the Procuring Entity, Narok County Government 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 Narok County Government shall prevail.

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

7. Clarification of Tender Document Site Visit, Pre-Tender Meeting

7.1 A Tenderer requiring any clarification of the Tender Document shall contact Narok County Government 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 Narok County Government will respond in writing to any request for clarification, provided that such request is received not later than the period specified in the TDS prior to the deadline for submission of tenders. Narok County Government 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, Narok County Government 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, Narok County Government shall amend the Tender Documents following the procedure under ITT 8 and ITT 22.2.

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. Narok County Government 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.

The Tenderer is requested to submit any questions in writing, to reach Narok County Government not later than the period specified in the TDS before the meeting. 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.

7.2 Narok County Government 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 Narok County Government 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. Amendment of Tender Documents

8.1 At any time prior to the deadline for submission of Tenders, Narok County Government 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. Narok County Government 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, Narok County Government should extend the deadline for the submission of Tenders, pursuant to ITT 22.2.

C. PREPARATION OF TENDERS

9. Cost of Tendering

The Tenderer shall meet all costs associated with the preparation and submission of its Tender, and Narok County Government shall not be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

10. 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. 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. 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. 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, 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
- 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 Narok County Government 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. 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 Narok County Government 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 breakdown of the foreign currency requirements shall be provided by Tenderers.

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

17. 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 ITT33. 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 contract or group of contractors qualifies for a margin of preference. Further the information will enable Narok County Government to 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 there by 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 17.2 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 Narok County Government 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 Narok County Government 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 tenderer will be rejected. Similarly, if Narok County Government 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 Narok County Government (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 on going, the tenderer will be disqualified from the procurement process,
- ii) If the contract has been awarded to that tenderer, the contract award will be set aside,
- iii) The tenderer will be referred to the relevant law enforcement authorities for investigation of whether the tenderer or any other persons have committed any criminal offence.

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 ITT 17.8 will ensue unless the tenderer can show to the reasonable satisfaction of Narok County Government 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. 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 Narok County Government in accordance with ITT 22). A Tender valid for a shorter period shall be rejected by Narok County Government as non-responsive.

18.2 In exceptional circumstances, prior to the expiration of the Tender validity period, Narok County Government 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 their request shall not be required or permitted to modify its Tender.

19. 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; or
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 Narok County Government 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 TDC- Narok County Government 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 be provided by the Tenderer; or
 - b) if the successful Tenderer fails to:
 - i) sign the Contract in accordance with ITT 47; 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, Narok County Government shall recommend to the PPRA that PPRA debars 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. 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 In case the Tenderer is a JV, the Tender shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 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. 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 Narok County Government 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, Narok County Government will assume no responsibility for the misplacement or premature opening of the Tender. Tenders that were misplaced or opened prematurely will not be accepted.

22. Deadline for Submission of Tenders

- 22.1 Tenders must be received by Narok County Government 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 Narok County Government 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 Narok County Government and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Tenders

- 23.1 Narok County Government shall not consider any Tender that arrives after the deadline for submission of tenders, in accordance with ITT 22. Any Tender received by Narok County Government after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Tenderer.

24. 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 Narok County Government 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, Narok County Government 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 and anyone 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 on each 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 Narok County Government 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, Narok County Government 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 Narok County procuring Entity shall prepare minutes of the Tender Opening that shall include, as a minimum:
- a) The name of the Tenderer and whether there is a withdrawal, substitution, or modification;
 - b) The Tender Price, per lot (contract) if applicable, including any discounts;
 - c) Any alternative Tenders;
 - d) The presence or absence of a Tender Security, if one was required.
 - e) Number of pages of each tender document submitted.
- 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 tender opening register shall be issued to a tenderer upon request.

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 Narok County Government 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 Narok County Government on any matter related to the tendering process, it shall do so in writing.

27. Clarification of Tenders

- 27.1 To assist in the examination, evaluation, and comparison of the tenders, and qualification of the tenderers, Narok County Government 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 Narok County Government 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 Narok County Government 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. 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. 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; or
 - b) limit in any substantial way, inconsistent with the tender document, the Procuring Entity's rights or the tenderer's obligations under the proposed contract; or
 - c) if rectified, would unfairly affect the competitive position of other tenderers presenting substantially responsive tenders.
- 29.3 Narok County Government 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 Narok County Government and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

30. Non-material Non-conformities

- 30.1 Provided that a tender is substantially responsive, Narok County Government may waive any non-conformities in the tender.
- 30.2 Provided that a Tender is substantially responsive, Narok County Government may request that the tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial non- conformities in the tender related to documentation requirements. Requesting information or documentation on such non-conformities shall not be related to any aspect of the price of the tender. Failure of the tenderer to comply with the request may result in the rejection of its tender.
- 30.3 Provided that a tender is substantially responsive, Narok County Government shall rectify quantifiable nonmaterial non-conformities related to the Tender Price. To this effect, the Tender Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified in the TDS.

31. 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 anyway by any person or entity.

- 31.2 Provided that the Tender is substantially responsive, Narok County Government 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. Conversion to Single Currency

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

33. 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. Nominated Subcontractors

- 34.1 Unless otherwise stated in the TDS, Narok County Government does not intend to execute any specific elements of the Works by subcontractors selected/nominated by the Procuring Entity. In case Narok County Government 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 subcontracting up to the percentage of total value of contracts or the volume of works as specified in the TDS. Subcontractors proposed by the Tenderer shall be fully qualified for their parts of the Works.
- 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 Narok County Government 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 Narok County Government 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 Narok County Government shall determine the Lowest Evaluated Tender in accordance with ITT 40.

35.2 To evaluate a Tender, Narok County Government shall consider the following:

- a) Price adjustment in accordance with ITT 31.1(iii); excluding provisional sums and contingencies, if any, but including Day work 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 intender 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 based one lot (contract) or based on a combination of lots (contracts), will be specified in Section III, Evaluation and Qualification Criteria. In the case of multiple lots or contracts, tenderer will be required to prepare the Eligibility and Qualification Criteria Form for each Lot.

36. Comparison of Tenders

36.1 Narok County Government 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. Abnormally Low Tenders and Abnormally High 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 regard 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, Narok County Government 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 Narok County Government determines that the Tenderer has failed to demonstrate its capability to perform the

Contract for the offered Tender Price, Narok County Government shall reject the Tender.

38. Abnormally High Tenders

- 38.1 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 Narok County Government 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.
- 38.2 In case of an abnormally high price, Narok County Government 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. Narok County Government may also seek written clarification from the tenderer on the reason for the high tender price. Narok County Government shall proceed as follows:
- i) If the tender price is abnormally high based on wrong estimated cost of the contract, Narok County Government 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, Narok County Government 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.
- 38.3 If Narok County Government determines that the Tender Price is abnormally too high because genuine competition between tenderers is compromised (often due to collusion, corruption or other manipulations), Narok County Government shall reject all Tenders and shall institute or cause competent Government Agencies to institute an investigation on the cause of the compromise, before retendering.

39. Unbalanced and/or Front-Loaded Tenders

- 39.1 If in the Procuring Entity's opinion, the Tender that is evaluated as the lowest evaluated price is seriously unbalanced and/or front loaded, Narok County Government 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.
- 39.2 After the evaluation of the information and detailed price analyses presented by the Tenderer, Narok County Government may as appropriate:
- a) accept the Tender; or
 - b) require that the total amount of the Performance Security be increased at the expense of the Tenderer to a level not exceeding a 10% of the Contract Price; or
 - c) agree on a payment mode that eliminates the inherent risk of Narok County Government paying too much for undelivered works; or
 - d) reject the Tender,

40. Qualifications of the Tenderer

- 40.1 Narok County Government 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.
- 40.2 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 Subcontractors if permitted in the Tender document), or any other firm(s) different from the Tenderer.
- 40.3 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 Narok County Government 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.

41. Best Evaluated Tender

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

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

- 42.1 Narok County Government 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

43. Award Criteria

- 43.1 Narok County Government shall award the Contract to the successful tenderer whose tender has been determined to be the Lowest Evaluated Tender.

44. Notice of Intention to enter into a Contract

- 44.1 Upon award of the contract and Prior to the expiry of the Tender Validity Period Narok County Government 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

44.2 instructions on how to request a debriefing and/or submit a complaint during the stand still period; Stand still Period

44.3 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.

44.4 Where a Standstill Period applies, it shall commence when Narok County Government has transmitted to each Tenderer the Notification of Intention to Enter into a Contract with the successful Tenderer.

45. 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 concern regarding their tender. Narok County Government 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. 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 within the Standstill Period, Narok County Government 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. Signing of Contract

47.1 Upon the expiry of the fourteen days of the Notification of Intention to enter into contract and upon the parties meeting their respective statutory requirements, Narok County Government 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. 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 Narok County Government 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 Narok County Government may award the Contract to the Tenderer offering the next Best Evaluated Tender.

48.3 Performance security shall not be required for contract estimated to cost less than the amount specified in the Regulations.

49. Publication of Procurement Contract

49.1 Within fourteen days after signing the contract, Narok County Government shall publish the awarded contract at its notice boards and websites; and on the Website of the Authority. At the minimum, the notice shall contain the following information: a) name and address of the Procuring Entity;

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

50. Procurement Related Complaint and Administrative Review

50.1 The procedures for making Procurement-related Complaints shall be 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.

Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
A. General	
ITT 1.1	The name of the contract is PROPOSED UPGRADING AND OPERAZIONALIZATION OF SOGOO HEALTH CENTRE INTO AMALO SUB-COUNTY HOSPITAL
ITT 1.1	The Employer is; THE COUNTY SECRETARY NAROK COUNTY GOVERNMENT
ITT 1.1	The number and identification of Tender NCG/OT/027/2024-2025 comprising this bidding process
ITT 2.4	The Information made available on competing firms is as follows:
ITT 2.4	The firms that provided consulting services for the contract being tendered for are: NOT APPLICABLE
ITT 3.1	Maximum number of members in the Joint Venture (JV) shall be (0)

B. Contents of Tender Document	
ITT 7.1	(i) The Tenderer will submit any request for clarifications in writing to the Address and shall; Attention: THE COUNTY SECRETARY. NAROK COUNTY GOVERNMENT HQ, KENYA P. O. BOX 898 -20500 NAROK (ii) Narok County Government Will publish its response at the website www.narok.go.ke
ITT 7.2	(A) Mandatory Pre-Bidding Conference Meeting “shall be held on the 19rd September, 2024 at 10:00 AM at the Public Works Boardroom. (B) A pre-arranged pre-tender site visit “Shall be advised at the prebidding conference.
ITT 7.3	The Tenderer will be required to submit any questions in writing via email procurement@narok.go.ke , to reach Narok County Government before the 25/09/2024
ITT 7.5	The Procuring Entity’s website where Minutes of the Pre-Tender meeting and the pre-arranged pretender will be published at www.narok.go.ke
C. Preparation of Tenders	
ITT 10.1	The language of the bid is: English

ITT 11.1 (h)	The Tenderer shall submit the following additional documents in its Tender: [list any additional document not already listed in ITT 11.1 that must be submitted with the Tender. The list of additional documents should include the following:] As provided for in section 3.2 evaluation criteria
ITT 11.1 (j)	The Bidder shall submit with its bid the following additional documents:
ITT 13.1	Alternative Tenders “shall not be” considered.
ITT 13.2	Alternatives to the Times for Completion “shall not be” permitted.
ITT 13.4	Alternative technical solutions shall NOT be permitted for the following parts of the Works:
ITT 14.5	The prices quoted by the Tenderer shall be fixed
ITT 14.7	The prices quoted shall be exclusive of all taxes and shall be inclusive of all attendant cost to deliver the works. All Taxes shall be filled appropriately in relevant Provisions within the document.
ITT 15.2(a)	The currency of the bid and payment shall be Kenya Shilling (KES), foreign currency shall not be allowed.
ITT 18.2	The Tender validity period shall be 120 days from the date of tender submission.

ITT 18.3	a) The Number of days beyond the expiry of the initial tender validity period will be 30 days.
ITT 19.1	A Tender Security in the Amount of Kshs 1,400,000 From A Reputable Bank or Insurance Firm Recognized By PPRA Shall Be required.
ITT 19.5	A pre - site visit Shall be advised at the prebidding conference.
ITT 20.1	In addition to the original of the Tender, the number of copies to be submitted with the tender 1 copy
ITT 20.3	The written confirmation of authorization to sign on behalf of the Tenderer shall indicate: The name and description of the documentation required to demonstrate the authority of the signatory to sign the Tender such as a Power of Attorney, authorization letter in company stationery; and In the case of tenders submitted by an existing or intended JV an undertaking signed by all parties (i) stating that all parties shall be jointly and severally liable if so, required in accordance with ITT 3.1(a), and ii) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.”

D. Submission and Opening of Tenders

ITT 21.2	A tender package or container that cannot fit in the Tender Box shall be received at Narok County Government Headquarters, Kenya At Supplies Chain Management Office At The County Headquarters.
ITT 22.1	(A) For <u>Tender submission purposes</u> only, the Employer’s address is: Attention: County Secretary Street Address: off Mau-Narok Narok County Government HQ, Kenya P.O BOX 898-20500 Narok

	The deadline for bid submission is: Date and time for submission of Tenders: 25th September 2024 at 11:00am Tenders shall not be submitted electronically.
ITT 25.1	The Tender opening shall take place at: Street Address: The Narok County Government HQ, Room number: County Assembly Hall 2 City: Narok Country: Kenya Date: 25-09-2024 Time: 11.00am.
ITT 25.1	Electronic tender Submission shall not be allowed. Electronic Tender Opening shall not apply.

E. Evaluation, and Comparison of Tenders

ITT 30.3	The adjustment shall be based on the _____ [insert “average” or “highest”] price of the item or component as quoted in other substantially responsive Tenders. If the price of the item or component cannot be derived from the price of other substantially responsive Tenders, Narok County Government shall use its Lowest estimate.
ITT 31.2	The error shall be considered a major deviation that leads to disqualification of the tender if the percentage of the error (error over the tender price quoted) is: more than 10%.
ITT 32.1	The currency that shall be used for Tender evaluation and comparison purposes to convert at the selling exchange rate all Tender prices expressed in various currencies into a single currency is: Kenyan shilling The source of exchange rate shall be: The Central Bank of Kenya The date for the exchange rate shall be: the deadline date for Submission of the Tenders.
ITT 33.2	A margin of preference “shall not” apply.
ITT 33.4	The invitation to tender is extended to the following groups. N/A
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 Narok County Government permits Tenderers to propose Specialized Subcontractors are designated as follows: Not applicable, 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.
ITTC34.4	MULTIPLE CONTRACTS
ITT 34.4 1	Bidders are permitted to apply for all tenders but can only be awarded one.
ITT 35.2 I	Additional requirements apply. These are detailed in the evaluation criteria in Section III, Evaluation and Qualification Criteria.
ITT 48.2	Additional requirements are:
TT 50.1	The procedures for making a Procurement-related Complaint are available from the PPRA website info@ppra.go.ke or complaints@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 hand delivery or email to: For the attention: The County Secretary NAROK COUNTY GOVERNMENT HQ, Kenya P. O. BOX 898-20500 City: Narok In summary, a Procurement-related Complaint may challenge any of the following: (i) the terms of the Tender Documents; and the Procuring Entity's decision to award the contract.

SECTION III- EVALUATION AND QUALIFICATION CRITERIA

1.1 General Provisions

1.2 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. Narok County Government shall use the Standard Tender Evaluation Document for Goods and Works for evaluating Tenders.

1.3 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.

1.4 Evaluation and contract award Criteria

Narok County Government 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.

A. Preliminary Examination for Determination of Responsiveness

Narok County Government will start by examining all tenders to ensure they meet in all respects the eligibility criteria and other requirements in the ITT, and that the tender is complete in all aspects in meeting the requirements of “Part 2 – Procuring Entity’s Works Requirements”, including checking for tenders with unacceptable errors, abnormally low tenders, abnormally high tenders and tenders that are front loaded. The Standard Tender Evaluation Report for Goods and Works for evaluating Tenders provides clear guidelines on how to deal with review of these requirements. Tenders that do not pass the Preliminary Examination will be considered irresponsive and will not be considered further.

PRELIMINARY EXAMINATION

S/NO	MANDATORY ELIGIBILITY CRITERIA	REQUIREMENT PRIORITY	(MET/NOT MET) M/NM
MR1.	Duly filled and Signed form of Tender By The Authorized Representative	Must be Filled	
MR2.	Letter Of Authorization For Nominated Representative Power Of Attorney) To Sign The Tender	Must be Provided	
MR3.	Copy Of Incorporation/ Company Registration Certificate	Must be Submitted	
MR4.	Copy Of Cr12 Details Of Directorship/ Ownership	Must be Submitted	
MR5.	Directors ID'S (attach copies)	Must be Submitted	
MR6.	Copy Of Valid Tax Compliance Certificate	Must be Submitted	
MR7.	Provide 1 no original bid and 1 no Copy of the original Bid Document	Must be Submitted	
MR8.	Copy Of valid Business Permit	Must be Submitted	
MR9.	Proven Physical Location And Address Of The Firm (CBQ)	Must be Provided	
MR10.	Tender Security (Bank Or Insurance) Valid For 30 Days Beyond Original Validity Period.	Must be Submitted	
MR11	Properly and Dully filled,signed and stamped form of General Construction Experience	Must be filled	
MR12	Properly and Dully filled,signed and stamped form of Specific Construction Experience	Must be filled	
MR13.	Non- Debarment Verification Statement That The Firm Is Not debarred By The Ppra Under The Ppada Act 2015 Or Any Other Recognized Institution.	Must be filled and signed and shall be verified in PPRA website	
MR14.	Tenderer Has No Conflicts Of Interest Declaration	Must be filled and signed	
MR15.	Registration & Licensing By National Construction Authority Nca 6 building and practicing certificate.	Must be Submitted	
MR16.	Not Insolvent, In Receivership, Bankrupt or In the Process of Being Wound Up	Must be Filled	
MR17.	Not Guilty of Any Serious Violation of Fair Employment Laws and Practices (Certified Self Declaration) the form must be properly filled, signed and stamped form of self declaration that the person /tenderer is not debarred in the matter of public procurement and asset disposal act 2015	Must be Filled	
MR18.	Not Convicted of Corrupt or Fraudulent Practices must submit APPENDIX 1 form of fraud and corruption, must be attached and shall not be modified	Must be submitted	
MR19.	Conflict of Interest Declaration (If Any)	Must be Filled	
MR20	Duly Filled and Signed Letter of Tender/Certificate Of Independent Tender Determination	Must be Filled	
MR21	Bound And Sequentially Serialized Document	Must be Serialized	
MR22	pre tender conference attendance certificate.	Attach Original certificate.	
	Determination Of Responsiveness (R/NR)		

Tenders that do not pass the Preliminary Examination will be considered non-responsive and will not be considered further. Note:

1. Tenders that pass Preliminary examination will go to Technical examination, .
 2. For explanations of Reason for NR, include a footnote and an explanation. E.g. Tender No. 1 item I may be NR, so the explanation will be as below.
- 3.3 Preliminary Examination Technical Responsiveness
(Only for those tenders which pass as Responsive on Preliminaries Examination)

GENERAL TECHNICAL EVALUATION REQUIREMENTS			
	Description		Scores
1.	Proof and Relevance experience in similar work within the last 3 years provide Iso, contracts, awards and completion certificates i. General experience at least 2 contracts(10 Marks) ii. Similar works at least 3 contracts(15 marks)	Must provide requirement	25
2.	Indicate detail Technical Proposal on how to undertake the project	Should demonstrate understanding of the scope of works and other general requirements	15
3.	Provide Detailed Company profile	Must meet requirement	15
4.	Key personnel (i) Manager/ proprietor must possess a Degree/ Higher (ii) Diploma with at least 4 years' General Experience and 2 years Specific Experience (10marks) Foreman/site agent must possess a Diploma for at least 4 years' General Experience and 2years Specific experience (5marks) (attach certified copies of academic certificates and cv)	Must meet requirement With proof	15
5.	Proof of office premises and workshop Firm must have; - (i) Physical address (1 marks) (ii) Email address(1 marks) (iii) Telephone and Mobile contact of person (3 marks)	Must provide	5
6.	Proof to have adequate equipment to undertake the works (i) Give details of equipment ownership, (10marks) (ii) Give details of equipment lease agreement (10marks)	Must provide proof and meet The requirement of the works	10

7.	Financial capabilities (i) The Tenderer shall demonstrate that they have 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 [10,000,000 million] equivalent for the subject contract(s) net of the Tenderer's other commitments. (4marks) (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 its prospective future contract commitments and its profitability. (5marks) (iii) The tenderer must Submit 3 years Audited accounts for the last 3 years and must be certified by recognize auditing firms. (6)marks	Must meet requirement	15
	TOTAL		100

The pass mark is 80 marks. Tenders that do not pass the technical Examination will be considered non-responsive and will not be considered further for financial evaluations.

3.5 Tender Evaluation (ITT 35)

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

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

3.6 Multiple Contracts

1.4 Multiple contracts will be permitted in accordance with ITT 35.4. Tenderers are evaluated on basis of Lots and the lowest evaluated tenderer identified for each Lot. Narok County Government will select one Option of the two Options listed below for award of Contracts.

OPTION 1

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

OPTION 2

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

3.7 Alternative Tenders (ITT 13.1)

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

Narok County Government shall consider Tenders offered for alternatives as specified in Part2-Works Requirements. Only the technical alternatives, if any, of the Tenderer with the Best Evaluated Tender conforming to the basic technical requirements shall be considered by the Procuring

3.8 Margin of Preference

3.8.1 If the TDS so specifies, Narok County Government will grant a margin of preference of fifteen percent (15%) to be loaded one valuated price of the foreign tenderers, where the percentage of shareholding of Kenyan citizens is less than fifty-one percent (51%).

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

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

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

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

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

- a) In case the tender was subject to post-qualification, the contract shall be awarded to the lowest evaluated tenderer, subject to confirmation of pre-qualification data, if so required.
 - b) In case the tender was not subject to post-qualification, the tender that has been determined to be the lowest evaluated tenderer shall be considered for contract award, subject to meeting each of the following conditions.
- i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow of _____ Kenya Shillings.
 - ii) Minimum average annual construction turnover of Kenya Shillings

[insert amount], equivalent calculated as total certified payments received for contracts in progress and/or completed within the last) [insert of year] years. iii) At least_(insert number) of contract(s) of a similar nature executed within Kenya, or the East African Community or abroad, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or subcontractor each of minimum value Kenya shillings _____equivalent.

iv) Contractor's Representative and Key Personnel, which are specified as

v) Contractors key equipment listed on the table "Contractor's Equipment" below and more specifically listed as [specify requirements for each lot as applicable]

vi) Other conditions depending on their seriousness.

a) History of non-performing contracts:

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

b) Pending Litigation

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

c) Litigation History

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

SECTION IV - TENDERING FORMS

4.0 Qualification Forms

4.1 Foreign Tenderers 40% Rule

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

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

1				
2				
3				
4				
	TOTAL COST LOCAL CONTENT		XXXXX	
	PERCENTAGE OF CONTRACT PRICE		xxxx	

4.2 Tenderer's Eligibility- Confidential Business Questionnaire

A: Instruction to Tenderer

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

i) Tenderer's details

	ITEM	DESCRIPTION
1	Name of the Procuring Entity	
2	Reference Number of the Tender	
3	Date and Time of Tender Opening	
4	Name of the Tenderer	
5	Full Address and Contact Details of the Tenderer.	1. Country 2. City 3. Location 4. Building 5. Floor 6. Postal Address 7. Name and email of contact person.
6	Current Trade License Registration Number and Expiring date	

7	Name, country and full address (postal and physical addresses, email, and telephone number) of Registering Body/Agency	
8	Description of Nature of Business	
9	Maximum value of business which the Tenderer handles.	
10	State if Tenders Company is listed in stock exchange, give name and full address (postal and physical addresses, email, and telephone number) of state which stock exchange	

ii) General and Specific Details

i) Sole Proprietor, provide the following details.

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

ii) Partnership, provide the following details.

	Names of Partners	Nationality	Citizenship	% Shares owned
1				
2				
3				

iii) Registered Company, provide the following details.

- i) Private or Public Company _ ii) State the nominal and issued capital of the Company
 Nominal Kenya Shillings (Equivalent).....
 Issued Kenya Shillings (Equivalent).....

iii) Give details of Directors as follows.

	Names of Director	Nationality	Citizenship	% Shares owned

1				
2				

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

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

If yes, provide details as follows.

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

Conflict of Interest Disclosure

	Type of Conflict	Disclosure YES OR NO	If YES provide details of the relationship with Tenderer
1	Tenderer is directly or indirectly controls, is controlled by or is under common control with another tenderer.		
2	Tenderer receives or has received any direct or indirect subsidy from another tenderer.		
3	Tenderer has the same legal representative as another tenderer		
4	Tender has a relationship with another tenderer, directly or through common third parties that puts it in a position to influence the tender of another tenderer, or influence the decisions of Narok County Government 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, nonconsulting 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 Narok County Government 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 Narok County Government who would be involved in the implementation or supervision of such Contract.		
9	Has the conflict stemming from such relationship stated in item 7 and 8 above been resolved in a manner acceptable to Narok County Government 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 tenders] in response to the request for tenders made by: _____ [Name of Tenderer] do hereby make the following statements that I certify to be true and complete in every respect:

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

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

Name _____ Title _____ Date _____

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

Form EQU: 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	

The following information for equipment owned by the Tenderer.

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

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.

	Title of position: Contractor's Representative
	Name of candidate:

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

	Expected time schedule for this position:	[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]

Form Per-2: Resume and Declaration - Contractor's Representative and Key Personnel

Name of Tenderer

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

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

Project	Role	Duration of involvement	Relevant experience

[main project details]	[role and responsibilities on the project]	[time in role]	[describe the experience relevant to this position]

Declaration

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

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

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

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

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

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

Signature _____ Date: (day month year): _____ Countersignature

of authorized representative of the Tenderer:

Signature _____ Date: (day month year): _____

4.6 Tenderers Qualification without Pre-qualification

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.

4.6.1 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: [Indicate country of Constitution]
Tenderer's actual or intended year of incorporation:
Tenderer's legal address [in country of registration]:
Tenderer's authorized representative information Name: _____ Address: _____ Telephone/Fax numbers: _____ E-mail address: _____
1. Attached are copies of original documents of ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITT 3.6 ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITT 3.5 ☐ In case of state-owned enterprise or institution, in accordance with ITT 3.8, documents establishing: ☐ Legal and financial autonomy • Operation under commercial law • Establishing that the Tenderer is not under the supervision of the Procuring Entity 2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

4.6.2 Form ELI-1.2 - Tenderer's JV Information Form

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 43.6.

☐ 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 3.8.

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

4.6.3 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 1st January [2020] specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 2.1.
- ☐ Contract(s) not performed since 1st January [2020] specified in Section III, Evaluation and Qualification Criteria, requirement 2.1

Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and Kenya Shilling equivalent)
[insert year]	[insert amount and percentage]	Contract Identification: [indicate complete contract name/ number, and any other identification] Name of Procuring Entity: [insert full name] Address of Procuring Entity: [insert street/city/country] Reason(s) for nonperformance: [indicate main reason(s)]	[insert amount]
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: _____	
		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.			
Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)

[insert year]	[insert percentage]	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Entity: [insert full name] Address of Procuring Entity: [insert street/city/country] Matter in dispute: [indicate main issues in dispute] Party who initiated the dispute: [indicate “Procuring Entity” or “Contractor”] Reason(s) for Litigation and award decision [indicate main reason(s)]	[insert amount]

4.6.4 Form FIN –3.1: Financial Situation and Performance

Tenderer's Name: _____ Date: _____

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

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					

Refer to ITT 15 for the exchange rate

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		

4.6.5 Financial documents

The Tenderer and its parties shall provide copies of financial statements for the last 3 Years pursuant Section III, Evaluation and Qualifications Criteria, Sub-factor 3.1. The financial statements shall:

- 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).
- be independently audited or certified in accordance with local legislation.
- be complete, including all notes to the financial statements.
- correspond to accounting periods already completed and audited.

Attached are copies of financial statements for the _years required above; and complying with the requirements.

4.6.6 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
[indicate year]	[insert amount and indicate currency]		
Average Annual Construction Turnover *			

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

4.6.7 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 cashflow demands of the subject contractor contracts as specified in Section III, Evaluation and Qualification Criteria.

4.6.8 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.

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: _____	

Form -4.1 (a): General Construction Experience_____

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 ☐	☐ SubContractor
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 Email:				

Form -4.2(b): -Specific Construction and Contract Management Experience

Date:_____ JV Member's Name_ ITT No. and title:_____

Similar Contract No.	Information
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	

Form -4.2(b): Construction Experience in Key Activities

_ Date:

Tenderer's JV Member Name: _____

2

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) x (ii)
Year 1				
Year 2				
Year 3				
Year 4				
Procuring Entity's Name:				
Address: Telephone/fax number Email:				
	Information			
Description of the key activities in accordance with Sub-Factor 4.2(b) of Section III:				

2. Activity No. Two

3.

4.7 OTHER FORMS

4.7.1 Form of Tender

Amended and issued pursuant to PPRA Circular No.02/2022

INSTRUCTIONS TO TENDERERS

- i) The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address.
- ii) All italicized text is to help Tenderer in preparing this form.
- iii) Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION OF THE TENDERER attached to this Form of Tender.
- iv) The Form of Tender shall include the following Forms duly completed and signed by the Tenderer.
 - Tenderer's Eligibility-Confidential Business Questionnaire.
 - Certificate of Independent Tender Determination.
 - Self-Declaration of the Tenderer.

Date of this Tender submission:[insert date (as day, month and year) of Tender submission] Request for Tender No.: [insert identification]

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

To:..... [insert complete name of Procuring Entity]

Dear Sirs,

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

_____ Kenya Shillings [amount in words] _____

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

The percentage or amount quoted above does not include provisional sums, and only allows not more than two foreign currencies.

2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Particular Conditions of Contract.
3. We agree to adhere by this tender until_[Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us. We further understand that you are not bound to accept the lowest or any tender you may receive.
5. We, the undersigned, further declare that:
 - i) No reservations: We have examined and have no reservations to the tender document, including

Addenda issued in accordance with ITT 8; ii) Eligibility: We meet the eligibility requirements and have no conflict of interest in accordance with

ITT 3 and 4; iii) Tender-Securing Declaration: We have not been suspended nor declared ineligible by Narok County Government based on execution of a Tender-Securing or Proposal-Securing Declaration in the Procuring Entity's Country in accordance with ITT 19.8;

- (iv) Conformity: We offer to execute in conformity with the tendering documents and in accordance with the implementation and completion specified in the construction schedule, the following Works: [insert a brief description of the Works];
- (v) Tender Price: The total price of our Tender, excluding any discounts offered in item 1 above is: [Insert one of the options below as appropriate]
- (vi) Option1, 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 Option2, 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 is 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 18.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 22.1(as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- xi) Performance Security: If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tendering document;
- xii) One Tender Per Tender: We are not submitting any other Tender(s) as an individual Tender, and we are not participating in any other Tender(s) as a Joint Venture member or as a subcontractor, and meet the requirements of ITT3.4, other than alternative Tenders submitted in accordance with ITT 13.3;
- xiii) Suspension and Debarment: We, along with any of our subcontractors, suppliers, Engineer, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Public Procurement Regulatory Authority or any other entity of the Government of Kenya, or any international organization.
- xiv) 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 tender process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]

Name of Recipient	Address	Reason	Amount

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

- xvi) 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) Not Bound to Accept: We understand that you are not bound to accept the lowest evaluated cost Tender, the Most Advantageous Tender or any other. Tender that you may receive;
- 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) 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.
- xx) We undertake to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, copy available from_(specify website) during the procurement process and the execution of any resulting contract.
- xxi) We, the Tenderer, have completed fully and signed the following Forms as part of our Tender:
 - a) Tenderer's Eligibility; Confidential Business Questionnaire – to establish we are not in any conflict to interest.
 - b) Certificate of Independent Tender Determination – to declare that we completed the tender without colluding with other tenderers.
 - c) Self-Declaration of the Tenderer– to declare that we will, if awarded a contract, not engage in any form of fraud and corruption.
 - d) Declaration and commitment to the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal.

Further, we confirm that we have read and understood the full content and scope of fraud and corruption as informed in

“Appendix 1- Fraud and Corruption” attached to the Form of Tender. Name of the Tenderer: *[insert complete name of person signing the Tender]

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

**[insert complete name of person duly authorized to sign the Tender]

Title of the person signing the Tender: [insert complete title of the person signing the Tender] Signature of the person named above: [insert signature of person whose name and capacity are shown above] Date signed [insert date of signing] day of [insert month], [insert year]

Date signed _____day of _____ ,

Notes

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

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

4.7.2 Form of Tender Security - Demand Bank Guarantee

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

Beneficiary:_____

Request for Tenders No:_____

Date:_____

TENDER GUARANTEE No.:_____

Guarantor: _____

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

[signature(s)]

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

TENDER GUARANTEE No.:

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

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

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

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

- a) has withdrawn its Tender during the period of Tender validity set forth in the Principal’s Letter of Tender (“the Tender Validity Period”), or any extension thereto provided by the principal; or
- b) having been notified of the acceptance of its Tender by Narok County Government 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 Narok County Government up to the above amount upon receipt of the Procuring Entity’s first written demand, without Narok County Government having to substantiate its demand, provided that in its demand Narok County Government shall state that the demand arises from the occurrence of any of the above events, specifying which event(s) has occurred.

4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii) twenty-eight days after the end of the Tender Validity Period.

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

[Date]

[Signature of the Guarantor]

[Witness]

[Seal]

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

4.7.3 Form of Tender Security (Tender Bond)

[The Surety shall fill in this Tender Bond Form in accordance with the instructions indicated.]
BOND NO.

1. BY THIS BOND [name of tenderer] as Principal (hereinafter called “the Principal”), and [name, legal title, and address of surety], authorized to transact business in [name of country of Purchaser], as Surety (hereinafter called “the Surety”), are held and firmly bound unto [name of Purchaser] as Oblige (hereinafter called “the Purchaser”) in the sum of [amount of Bond][amount in words], for the payment of which sum, well and truly to be made, we, the said Principal and Surety, bind ourselves, our successors and as signs, jointly and severally, firmly by these presents.
2. WHEREAS the Principal has submitted or will submit a written Tender to the Purchaser dated the day of ___, 20, for the supply of [name of Contract] (herein after called the “Tender”).
3. NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal:
 - a) Has withdrawn its Tender during the period of Tender validity set forth in the Principal's Letter of Tender (“the Tender Validity Period”), or any extension there to provided by the Principal; or
 - b) Having been notified of the acceptance of its Tender by the Purchaser during the Tender Validity Period or any extension there to 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 Purchaser's Tendering document.

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

4. The Surety here by agrees that its obligation will remain in full force and effect up to and including the date 30 days after the date of expiration of the Tender Validity Period set forth in the Principal's Letter of Tender or any extension thereto provided by the Principal.
5. IN TESTIMONY WHEREOF, the Principal and the Surety have caused these presents to be executed in their respective names this day of ___20.

Principal: _____ Surety: _____
Corporate Seal (where appropriate)

4.7.4 FORM OF TENDER-SECURING DECLARATION

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 processes]

To: [Insert complete name of Purchaser] I/We, the undersigned,

declare that:

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

Signed:..... Capacity / title

(director or partner or sole proprietor, etc.)

Name:..... Duly authorized

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

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

Seal or stamp

4.7.4 SELF-DECLARATION FORMS

FORM SD1

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

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

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

.....
(Title)

.....
(Signature)

.....
(Date)

Bidder's Official Stamp

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

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

1. THAT I am the Chief Executive/Managing Director/Principal Officer/Director of (Insert name of the Company) who is a Bidder in respect of Tender No. for (insert tender title/description) for (insert name of the Procuring entity) and duly authorized and competent to make this statement.
2. THAT the aforesaid Bidder, its servants and/or agents /subcontractors will not engage in any corrupt or fraudulent practice and has not been requested to pay any inducement to any member of the Board, Management, Staff and/or employees and/or agents of..... (Insert name of the Procuring entity) which is the procuring entity.
3. THAT the aforesaid Bidder, its servants and/or agents /subcontractors have not offered any inducement to any member of the Board, Management, Staff and/or employees and/or agents of..... (name of the procuring entity)
4. THAT the aforesaid Bidder will not engage/has not engaged in any corrosive practice with other bidders participating in the subject tender
5. THAT what is deponed to herein above is true to the best of my knowledge, information and belief.

.....
(Title)

.....
(Signature)

.....
(Date)

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.....

4.7.5 Appendix to Tender

Appendix I: 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 Subcontractors, Subconsultants, 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 subsection 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 Narok County Government under subsection (7) does not limit any legal remedy Narok County Government may have;
 - 5) An employee or agent of Narok County Government or a member of the Board or committee of Narok County Government 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 Narok County Government 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 Narok County Government 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, subcontractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- d) Pursuant to the Kenya's above stated Acts and Regulations, may sanction or recommend to appropriate authority(ies) for sanctioning and debarment of a firm or individual, as applicable under the Acts and Regulations;
- e) Requires that a clause be included in Tender documents and Request for Proposal documents requiring (i) Tenderers (applicants/proposers), Consultants, Contractors, and Suppliers, and their Sub-contractors, Sub- consultants, Service providers, Suppliers, Agents personnel, permit the PPRA or any other appropriate authority appointed by Government of Kenya to inspect 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.

Schedule of Currency requirements

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

Name of currency	Amounts payable
Local currency:	
Foreign currency #1: _____	
Foreign currency #2: _____	
Foreign currency #3: _____	

Provisional sums expressed in local currency _____	[To be entered by the Procuring Entity]

All currencies shall be in Kenyan shillings

4.8 TECHNICAL PROPOSAL

The tender shall complete these sections as a Technical proposal to indicate how he/she intends to proceed with the works. Narok County Government will review these Proposals and determine the extent to which they meet the required standards to complete the works.

4.8.1 SITE ORGANIZATION

[Insert Site Organization information]

4.8.2 METHOD STATEMENT

[Insert Method Statement]

4.8.3 MOBILIZATION SCHEDULE

[Insert Mobilization Schedule]

4.8.4 CONSTRUCTION SCHEDULE

[Insert Construction Schedule]

PART 2 - WORKS' REQUIREMENTS

SECTION V - BILLS OF QUANTITIES

A. Schedule of Daywork Rates [Note to the Procuring Entity:

- i) A “Daywork Schedule” is commonly found in contracts where the likely incidence of unforeseen work cannot be covered by definitive descriptions and approximate quantities in the Bills of Quantities. The preferred alternative is to value the additional work in accordance with the Conditions of Contract. A Daywork Schedule normally has the disadvantage of not being competitive among Tenderers, who may therefore load the rates as signed to some or all the items. If a Daywork Schedule is to be included at all in the tendering documents, it is preferable to include nominal quantities against the items most likely to be used,

and to carry the sum of the extended amounts forward into the Tender Summary in order to make the basic Schedule of Daywork Rates competitive.

- ii) The total amount assigned to such competitive daywork is normally 3–5 percent of the estimated base Contract Price and is regarded as a Provisional Sum for contingencies to be expended under the direction and at the discretion of the Engineer.]

1. General

Reference should be made to Sub-Clause 13.6 of the General Conditions. Work shall not be executed on a day work basis except by written order of the Engineer. Tenderers shall enter basic rates for day work items in the Schedules, which rates shall apply to any quantity of day work ordered by the Engineer. Nominal quantities have been indicated against each item of daywork, and the extended total for Daywork shall be carried forward as a Provisional Sum to the Summary Total Tender Amount. Unless otherwise adjusted, payments for day work shall be subject to price adjustment in accordance with the provisions in the Conditions of Contract.

2. Daywork Labor

2.1 In calculating payments due to the Contract or for the execution of day work, the hours for labor will be reckoned from the time of arrival of the labor at the job site to execute the particular item of day work to the time of return to the original place of departure but excluding meal breaks and rest periods. Only the time of classes of labor directly doing work ordered by the Engineer and for which they are competent to perform will be measured. The time of gangers (charge hands) doing work with the gangs will also be measured but not the time of foremen or other supervisory personnel.

2.2 The Contractor shall be entitled to payment in respect of the total time that labor is employed on daywork, calculated at the basic rates entered by the Contractor in the Schedule of Daywork Rates: 1. Labor, together with an additional percentage payment on basic rates representing the Contractor's profit, overheads, etc., as described below:

- a) The basic rates for labor shall cover all direct costs to the Contractor, including (but not limited to) the amount of wages paid to such labor, transportation time, overtime, subsistence allowances, and any sums paid to or on behalf of such labor for social benefits in accordance with [country of Procuring Entity] law. The basic rates will be payable in local currency only.
- b) The additional percentage payment to be quoted by the Tenderer and applied to costs incurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities, and insurances and allowances to labor, time keeping, and clerical and office work, the use of consumable stores, water, lighting, and power; the use and repair of stagings, scaffolding, workshops, and stores, portable power tools, manual plant, and tools; supervision by the Contractor's staff, foremen, and other supervisory personnel; and charges incidental to the fore going. Payments under this item shall be made in the following currency proportions: i) Foreign: _____ percent (to be stated by Tenderer)°. ii) Local: _percent (to be stated by Tenderer). [Note to the

Procuring Entity:

This method of indicating profit and overheads separately facilitates the addition of further items of daywork, if needed, the basic costs of which can then be checked more easily. An alternative is to make Daywork rates all-inclusive of the Contractor's overhead and profit, etc., in which case this paragraph and the relevant Daywork Schedule should be modified accordingly.]

3. Daywork Materials

The Contractor shall be entitled to payment in respect of materials used for daywork (except for materials for which the cost is included in the percentage addition to labor costs as detailed hereto fore), at the basic rates entered by the Contractor in the Schedule of Daywork Rates: 2. Materials, together with an additional percentage payment on the basic rates to cover overhead charges and profit, as follows:

- a) the basic rates for materials shall be calculated based on the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the Site. The basic rates shall be stated in local currency, but payment will be made in the currency or currencies expended upon presentation of supporting documentation.
- b) the additional percentage payment shall be quoted by the Tenderer and applied to the equivalent local currency payments made under (a) above. Payments under this item will be made in the following currency proportions:
 - i) foreign: _____ percent (to be stated by the Tenderer)¹⁰; ii)
 - local: _____ percent (to be stated by the Tenderer);
- c) the cost of hauling materials for use on work ordered to be carried out as daywork from the store or stockpile on the Site to the place where it is to be used will be paid in accordance with the terms for Labor and Construction in this schedule.

4. Daywork Contractor's Equipment

- 4.1 The Contractor shall be entitled to payments in respect of Contractor's Equipment already on Site and employed on daywork at the basic rental rates entered by the Contractor in the Schedule of Daywork Rates: 3. Contractor's Equipment. Said rates shall be deemed to include due and complete allowance for depreciation, interest, indemnity, and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit, and administrative costs related to the use of such equipment.

[Note to the Procuring Entity: This is an example of wording to include overhead and profit, etc., in the daywork rates. A separate percentage addition could be used as for labor and materials.] The cost of drivers, operators, and assistants will be paid for separately as described under the section on Daywork Labor. [Note to the Procuring Entity: An alternative, sometimes adopted for administrative convenience, is to include the cost of drivers, operators, and assistants in the basic rates for Contractor's Equipment. The last sentence of this paragraph 5 should then be modified accordingly.]

4.2 In calculating the payment due to the Contractor for Contractor's Equipment employed on daywork, only the actual number of working hours will be eligible for payment, except that where applicable and agreed with the Engineer, the traveling time from the part of the Site where the Contractor's Equipment was located when ordered by the Engineer to be employed on daywork and the time for return journey thereto shall be included for payment.

4.3 The basic rental rates for Contractor's Equipment employed on daywork shall be stated in local currency, but payments to the Contractor will be made in currency proportions, as follows:

- a) Foreign: _____ percent (to be stated by the Tenderer)¹¹.
- b) Local: _____ percent (to be stated by the Tenderer).

Schedule of Daywork Rates: 1. Labor

Item no.	Description	Unit	Nominal quantity	Rate	Extended amount
	Subtotal				
	Allow _____ percent ^a of Subtotal for Contractor's overhead, profit, etc., in accordance with paragraph 3 (b) above.				
	Total for Daywork: Labor (Carried forward to Daywork Summary, p. __)				_____
a. To be entered by the Tenderer.					

Schedule of Daywork Rates: 2. Materials

Item no.	Description	Unit	Nominal quantity	Rate	Extended amount
	Subtotal				
	Allow _____ percent of Subtotal for Contractor's overhead, profit, etc., in accordance with paragraph 4 (b) above.				
	Total for Daywork: Materials (Carried forward to Daywork Summary, p. __)				_____

a. To be entered by the Tenderer.

Schedule of Daywork Rates: 3. Contractor's Equipment

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

a. To be entered by the Tenderer.

Dayworks Summary

	Amount ^a ()	% Foreign
1. Total for Daywork: Labor		
2. Total for Daywork: Materials		
3. Total for Daywork: Contractor's Equipment		
Total for Daywork (Provisional Sum) (Carried forward to Tender Summary, p. ____)	_____	_____

a. Narok County Government should insert local currency unit.

Summary of Specified Provisional Sums in the Bills of Quantities

Bill no.	Item no.	Description	Amount
1			

2			
3			
4			
etc.			
Total for Specified Provisional Sums (Carried forward to Grand Summary (B), p.)			

Grand Summary

General Summary	Page	Amount
Bill No. 1: General items		
Bill No. 2: Work items		
Bill No. 2: Work items		
Bill No. 2: Work items		
Bill No. 2: Work items, —etc.—		
Subtotal of Bills	(A)	
ADD Total for Daywork (Provisional Sum) *	(B)	
ADD Specified Provisional Sums in their subtotal of bills ⁱⁱ	(C)	[sum]
Total of Bills Plus Provisional Sums (A + B + C) ⁱ	(D)	
Add Provisional Sum for Contingency Allowance (if any) ⁱⁱ	(E)	[sum]
Tender Price (D + E) (Carried forward to Letter of Tender)	(F)	

- i) All Provisional Sums are to be expended in whole or in part at the direction and discretion of the Engineer in accordance with +Clause 13.5 of the General Conditions.

- ii) To be entered by the Procuring Entity.

For evaluation purposes, Provisional Sum, other than Daywork will be excluded

SECTION VI - SPECIFICATIONS

Technical Specification

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Project Manager's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Project Manager at least 28 days prior to the date when the Contractor desires the Project Manager's consent. In the event, the Project Manager determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

SECTION VII: DRAWINGS

PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS

SECTION VIII - GENERAL CONDITIONS OF CONTRACT

These General Conditions (GC), read in conjunction with the Particular Conditions (PC) and other documents listed therein, should be a complete document expressing fairly the rights and obligations of both part

1. General Provisions

1.1 Definitions

In the Conditions of Contract (“these Conditions”), which include Particular Conditions, Parts A and B, and these General Conditions, the following words and expressions shall have the meanings stated. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

1.1.1 The Contract

“Bills of Quantities”, “Daywork Schedule” and “Schedule of Payment Currencies” mean the documents so named (if any) which are comprised in the Schedules.

“Contract Agreement” means the contract agreement referred to in Sub-Clause 1.6 [Contract Agreement].

“Contract” means the Contract Agreement, the Letter of Acceptance, the Letter of Tender, these Conditions, the Specification, the Drawings, the Schedules, and the further documents (if any) which are listed in the Contract Agreement or in the Letter of Acceptance.

“Drawings” means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) Narok County Government in accordance with the Contract.

“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, signed by the contractor and the Procuring Entity, including any annexed memoranda comprising agreements between and signed by both Parties.

“Letter of Tender” means the document entitled letter of tender or letter of tender, which was completed by the Contractor and includes the signed offer to Narok County Government for the Works.

“SCC” means the Special Conditions of Contract completed by Narok County Government which modify the General Conditions of Contract.

“Schedules” means the document(s) entitled schedules, completed by the Contractor and submitted with the Letter of Tender, as included in the Contract. Such document may include the Bills of Quantities, data, lists, and schedules of rates and/or prices.

“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.

“Tender” means the Letter of Tender and all other documents which the Contractor submitted with the Letter of Tender, as included in the Contract.

1.1.2 Parties and Persons

“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 Contract or in the Contractor appointed from time to time by the Contractor under Sub-Clause 4.3 [Contractor's Representative], who acts on behalf of the Contractor.

“Contractor” means the person(s) named as contractor in the Letter of Tender accepted by Narok County Government and the legal successors in title to this person(s).

“Engineer” means the person appointed by Narok County Government to act as the Engineer for the purposes of the Contract and named in the SCC, or other person appointed from time to time by Narok County Government and notified to the Contractor under Sub-Clause 3.4 [Replacement of the Engineer].

“Party” means Narok County Government or the Contractor, as the context requires.

“Procuring Entity” means the Entity named in the Special Conditions of Contract.

“Procuring Entity's Personnel” means the Engineer, the assistants referred to in SubClause 3.2 [Delegation by the Engineer] and all other staff, labor and other employees of the Engineer and of the Procuring Entity; and any other personnel notified to the Contractor, by Narok County Government or the Engineer, as Procuring Entity's Personnel.

“Procuring Entity” means the person named as Procuring Entity in the SCC and the legal successors in title to this person.

“Subcontractor” means any person named in the Contract as a subcontractor, or person appointed as a subcontractor, for a part of the Works; and the legal successors in title to each of these persons.

1.1.3 Dates, Tests, Periods and Completion

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

“Commencement Date” means the date notified under Sub-Clause 8.1

[Commencement of Works]. “Completion Certificate” means the certificate issued under Sub-Clause 11.9 [Performance Certificate]. “Day” means a calendar day and “year” means 365 days.

“Defects Notification Period” means the period for notifying defects in the Works or a Section (as the case may be) under Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects], which extends over 365 days except if otherwise stated in the SCC (with any extension under Sub-Clause 11.3 [Extension of Defects Notification Period]), calculated from the date on which the Works or Section is completed as certified under Sub-Clause 10.1[Taking Over of the Works and Sections].

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

“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 or 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) under Sub- Clause 8.2 [Time for Completion], as stated in the SCC (with any extension under Sub-Clause 8.4 [Extension of Time for Completion]), calculated from the Commencement Date.

1.1.4 Money and Payments

“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.

“Contract Price” means the price defined in Sub-Clause 14.1 [The Contract Price] and includes adjustments in accordance with the Contract.

“Cost” means all 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.

“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].

“Foreign Currency” means acurrency in which part (orall) of the Contract Price is payable, but not the Local Currency.

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

“Local Currency” means the currency of the Country.

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

“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 Narok County Government retains under Sub- Clause 14.3 [Application for Interim Payment Certificates] and pays under Sub-Clause 14.9 [Payment of Retention Money].

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

1.1.5 Works and Goods

“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.

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

“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.

“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 Narok County Government and relating to the construction or operation of the Works.

“Section” means a part of the Works specified in the SCC as a Section (if any).

“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.

“Works” mean the Permanent Works and the Temporary Works, or either of them as appropriate.

1.1.6 Other Definitions

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

“Country” means Kenya as the country in which the Site is located, where the Permanent Works are to be executed.

“Force Majeure” is defined in Clause 19 [Force Majeure].

“Laws” means all national (or state) legislation, statutes, ordinances and other laws, and regulations and by- laws of any legally constituted public authority.

“Notice of Dissatisfaction” means the notice given by either Party to the other under Sub-Clause 20.4 indicating its dissatisfaction and intention to commence arbitration.

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

“Procuring Entity's Equipment” means the apparatus, machinery and vehicles (if any) made available by Narok County Government for the use of the Contractor 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.

“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.

“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].

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
- e) the word “tender” is synonymous with “tender” and “tenderer” with “Tenderer” and the words “tender documents” with “tendering documents.”

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 SCC; and
- b) Delivered, sent or transmitted to the address for the recipient's communications as stated in the SCC. 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 Engineer 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 the English Language.

1.5 Priority of Documents

1.5.1 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 Particular Conditions–Part A,
- d) the Particular 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.

1.5.2 If an ambiguity or discrepancy is found in the documents, the Engineer 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 Letter of Acceptance, unless the Particular Conditions establish otherwise. The Contract Agreement shall be based upon the form annexed to the Particular 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

Neither Party shall assign the whole or any part of the Contract or any benefit or interest in or under the Contract. However, either Party:

- a) May assign the whole or any part with the prior agreement of the other Party, at the sole discretion of such other Party, and
- b) May, as security in favor of a Procuring Entity or financial institution, assign its right to any moneys due, or to become due, under the Contract.

1.8 Care and Supply of Documents

1.8.1 The Specification 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 Drawing 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 Engineer

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.

1.8.4 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 Delayed Drawings or Instructions

1.9.1 The Contractor shall give notice to the Engineer 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.

If the Contractor suffers delay and/or incurs Cost as a result of a failure of the Engineer 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 Engineer 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.

1.9.2 After receiving this further notice, the Engineer shall proceed in accordance with SubClause 3.5 [Determinations] to agree or determine these matters.

1.9.3 However, if and to the extent that the Engineer'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.

1.10 Procuring Entity's Use of Contractor's Documents

1.10.1 As 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. The Contractor shall be deemed (by signing the Contract) to give to Narok County Government 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.

1.10.2 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) Narok County Government for purposes other than those permitted under this Sub-Clause.

1.11 Contractor's Use of Procuring Entity's Documents

As between the Parties, Narok County Government 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

The Contractor's and the Procuring Entity's Personnel 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.

1.13 Compliance with Laws

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

- a) Narok County Government 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 Specification as having been (or to be) obtained by the Procuring Entity; and Narok County Government 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 Narok County Government 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 Narok County Government for the performance of the Contract;
- b) these persons shall notify Narok County Government 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, Narok County Government and/or persons appointed by Narok County Government 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 Narok County Government if requested by the Procuring Entity. The Contractor's and its Subcontractors' and sub-consultants' attention is drawn to SubClause15.6 (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 Narok County Government shall give the Contractor right of access to, and possession of, all parts of the Site within the time (or times) stated in the SCC. The right and possession may not be exclusive to the Contractor. If, under the Contract, Narok County Government is required to give (to the Contractor) possession of any foundation, structure, plant or means of access, Narok County Government shall do so in the time and manner stated in the Specification. However, Narok County Government 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 SCC, Narok County Government shall give the Contractor right of access to, and possession of, the Site within such times as required to enable the Contractor to proceed without disruption in accordance with the programme submitted under Sub-Clause 8.3 [Programme].

2.1.3 If the Contractor suffers delay and/or incurs Cost as a result of a failure by Narok County Government to give any such right or possession within such time, the Contractor shall give notice to the Engineer 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 Engineer 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

Narok County Government 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 the Country which are relevant to the Contract but are not readily available, and
- b) Any permits, licenses or approvals required by the Laws of the Country:
 - 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

Narok County Government shall be responsible for ensuring that the Procuring Entity's Personnel and the Procuring Entity's other contractors on 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 subparagraphs (a), (b) and (c) of Sub-Clause 4.8 [Safety Procedures] and under SubClause 4.18 [Protection of the Environment].

2.4 Procuring Entity's Financial Arrangement

2.4.1 Narok County Government shall submit, before the Commencement Date and there after within 30 days after receiving any request from the Contractor, reasonable evidence that financial arrangements have been made and are being maintained which will enable Narok County Government to pay the Contract Price punctually (as estimated at that time) in accordance with Clause 14 [Contract Price and Payment]. Before Narok County Government makes any material change to his financial arrangements, Narok County Government shall give notice to the Contractor with detailed particulars.

2.4.2 In addition, if Narok County Government has notified to the Contractor that Narok County Government has suspended disbursements under its loan, which finances in whole or in part the execution of the Works, Narok County Government shall give notice of such suspension to the Contractor with detailed particulars, including the date of such notification, with a copy to the 2.4.3 Engineer, within 7 days of Narok County Government having received the suspension notification from the Procuring Entity. If alternative funds will be available in appropriate currencies to Narok County Government to continue making payments to the Contractor beyond a date 60 day after the date of Procuring Entity notification of the suspension, Narok County Government shall provide reasonable evidence in his notice of the extent to which such funds will be available.

2.5 Procuring Entity's Claims

2.5.1 If Narok County Government 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, Narok County Government or the 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.

2.5.2 The notice shall be given as soon as practicable and no longer than 30 days after Narok County Government 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.

2.5.3 The particulars shall specify the Clause or other basis of the claim and shall include substantiation of the amount and/or extension to which Narok County Government

considers itself to be entitled in connection with the Contract. The Engineer shall then proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the amount (if any) which Narok County Government 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].

3. THE ENGINEER

3.1 Engineer's Duties and Authority

3.1.1 Narok County Government shall appoint the Engineer who shall carry out the duties assigned to him in the Contract. The Engineer's staff shall include suitably qualified engineers and other professionals who are competent to carry out these duties.

The Engineer shall have no authority to amend the Contract.

The Engineer may exercise the authority attributable to the Engineer as specified in or necessarily to be implied from the Contract. If the Engineer is required to obtain the approval of Narok County Government before exercising a specified authority, the requirements shall be as stated in the Particular Conditions. Narok County Government shall promptly inform the Contractor of any change to the authority attributed to the Engineer.

3.1.2 However, whenever the Engineer exercises a specified authority for which the Procuring Entity's approval is required, then (for the purposes of the Contract) Narok County Government shall be deemed to have given approval. Except as otherwise stated in these Conditions:

- a) Whenever carrying out duties or exercising authority, specified in or implied by the Contract, the Engineer shall be deemed to act for the Procuring Entity; the Engineer has no authority to relieve either Party of any duties, obligations or
- b) any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by the Engineer (including absence of disapproval) shall not relieve the Contractor from any responsibility he has under the Contract, including responsibility for errors, omissions, discrepancies and noncompliances; and
- c) any act by the Engineer in response to a Contractor's request except as otherwise expressly specified shall be notified in writing to the Contractor within 14 days of receipt.

3.1.2 The following provisions shall apply; The Engineer shall obtain the specific approval of Narok County Government 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-Clause13.1: 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 SCC.

- c) Sub-Clause13.3: Approving a proposal for Variation submitted by the Contractor in accordance with Sub Clause13.1or13.2.
 - d) Sub-Clause13.4: Specifying the amount payable in each of the applicable currencies.
- 3.1.3 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 Contract or 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 forthwith comply, despite the absence of approval of the Procuring Entity, with any such instruction of the Engineer. The Engineer 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 Engineer 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 Engineer shall not delegate the authority to determine any matter in accordance with Sub-Clause3.5 [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 Engineer 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 Engineer 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 this Clause. If an instruction constitutes a Variation, Clause 13 [Variations and Adjustments] shall apply.

3.3.2 The Contractor shall comply with the instructions given by the Engineer or delegated assistant, on any matter related to the Contract. Whenever practicable, their instructions shall be given in writing. If the Engineer 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 Engineer or delegated assistant (as the case may be).

3.4 Replacement of the Engineer

If Narok County Government intends to replace the Engineer, Narok County Government shall, 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 replacement Engineer. If the Contractor considers the intended replacement Engineer to be unsuitable, he has the right to raise objection against him by notice to the Procuring Entity, with supporting particulars, and Narok County Government shall give full and fair consideration to this objection.

3.5 Determinations

3.5.1 Whenever these Conditions provide that the Engineer shall proceed in accordance with this Sub-Clause 3.5 to agree or determine any matter, the Engineer shall consult with each Party in an endeavor to reach agreement. If agreement is not achieved, the Engineer shall make a fair determination in accordance with the Contract, taking due regard of all relevant circumstances.

3.5.2 The Engineer shall give notice to both Parties of each agreement or 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 Engineer's 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 as defined by the Procuring Entity.

- 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 The Contractor shall not commence any Works, including mobilization and/or preconstruction activities (e.g. limited clearance for haul roads, site accesses and work site establishment, geotechnical investigations or investigations to select ancillary features such as quarries and borrow pits), unless the Engineer is satisfied that appropriate measures are in place to address environmental, social, health and safety risks and impacts.
- 4.1.7 If the Contract specifies that the Contractor shall design any part of the Permanent Works, then unless otherwise stated in the Particular Conditions:
- a) The Contractor shall submit to the Engineer 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 SubClause 1.4 [Law and Language], and shall include additional information required by the Engineer 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, be fit 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 Engineer the "as- built" documents and, if applicable, operation and maintenance manuals in accordance with the Specification and insufficient detail for Narok County Government 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 Performance security shall not be required for contracts estimated to cost less than Kenya shillings five million shillings.
- 4.2.2 The Contractor shall obtain (at his cost) a Performance Security for proper performance, in the amount stated in the SCC and denominated in the currency (ies) of the Contractor in a freely convertible currency acceptable to the Procuring Entity. If an amount is not stated in the SCC, this Sub-Clause shall not apply.

- 4.2.3 The Contractor shall deliver the Performance Security to Narok County Government within 14 days after receiving the Letter of Acceptance and shall send a copy to the Engineer. The Performance Security shall be issued by a reputable Procuring Entity or financial institution selected by the Contractor and shall be in the form annexed to the Particular Conditions, as stipulated by Narok County Government in the SCC, or in another form approved by the Procuring Entity.
- 4.2.4 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.
- 4.2.5 Narok County Government shall not make a claim under the Performance Security, except for amounts to which Narok County Government is entitled under the Contract. Narok County Government 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 Narok County Government was not entitled to make the claim.
- 4.2.6 Narok County Government shall return the Performance Security to the Contractor within 21 days after receiving a copy of the Performance Certificate.
- 4.2.7 Without limitation to the provisions of the rest of this Sub-Clause, whenever the Engineer 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 Engineer's 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. Unless the Contractor's Representative is named in the Contract, the Contractor shall, prior to the Commencement Date, submit to the Engineer 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.

The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the Contractor's Representative or appoint a replacement.

- 4.3.2 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 Engineer's prior consent, and the Engineer shall be notified accordingly.

4.3.3 The Contractor's Representative shall, on behalf of the Contractor, receive instructions under Sub-Clause 3.3 [Instructions of the Engineer].

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 Engineer has received prior notice signed by the Contractor's Representative, naming the person and specifying the powers, functions and authority being delegated or revoked.

4.3.4 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 Subcontractors

4.4.1 The Contractor shall not subcontract the whole of the Works.

4.4.2 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 Particular 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 Engineer shall be obtained to other proposed Subcontractors;
- c) the Contractor shall give Narok County Government 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 Narok County Government to require the subcontract to be assigned to Narok County Government 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].

4.4.3 The Contractor shall ensure that the requirements imposed on the Contractor by Sub-Clause 1.12 [Confidential Details] apply equally to each Subcontractor.

4.4.4 Where practicable, the Contractor shall give fair and reasonable opportunity for contractors from the Country 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 Narok County Government for the work carried out by the Subcontractor after the assignment takes effect.

4.6 Co-operation

4.6.1 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.

If, under the Contract, Narok County Government 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 Engineer in the time and manner stated in the Specification.

4.7 Setting Out

4.7.1 The Contractor shall set out the Works in relation to original points, lines and levels of reference specified in the Contractor notified by the Engineer. The Contractor shall be responsible for the correct positioning of all parts of the Works, and shall rectify any error in the positions, levels, dimensions or alignment of the Works.

Narok County Government 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.

4.7.2 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 Engineer and shall be entitled subject to SubClause 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.

4.7.3 After receiving this notice, the Engineer 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 subparagraphs (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 obstructions 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 Engineer 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 Engineer 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 Narok County Government 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. Narok County Government 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 labor practices of the Country, 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 manmade 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 Engineer as soon as practicable.

This notice shall describe the physical conditions, so that they can be inspected by the Engineer, 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 Engineer may give. If an instruction constitutes a Variation, Clause 13 [Variations and Adjustments] shall apply.

4.12.3 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.

4.12.4 Upon receiving such notice and inspecting and/or investigating these physical conditions, the Engineer 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 subparagraphs (a) and (b) above related to this extent.

4.12.5 However, before additional Cost is finally agreed or determined under sub-paragraph (ii), the Engineer 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 Engineer 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 subparagraph (b) and all these reductions, for all the physical conditions encountered in similar parts of the Works, shall not result in any reduction in the Contract Price.

4.12.6 The Engineer 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 Narok County Government 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 footpaths, irrespective of whether they are public or in the possession of Narok County Government or of others.

4.14.2 The Contractor shall indemnify and hold Narok County Government 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 effort 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) Narok County Government shall not be responsible for any claims which may arise from the use or otherwise of any access route;
- d) Narok County Government 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 Particular Conditions:

- a) The Contractor shall give the Engineer 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 Narok County Government 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 onto 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 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.

4.18.2 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.

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 Specification. The Contractor shall, at his risk and cost, provide any apparatus necessary for his use of these services and for measuring the quantities consumed.

4.19.2 The quantities consumed and the amounts due (at these prices) for such services shall be agreed or determined by the Engineer 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 Narok County Government 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) Narok County Government 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.

4.20.2 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 Engineer 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. Narok County Government shall supply, free of charge, the "free-issue materials" (if any) in accordance with the details stated in the Specification. Narok County

Government 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 Engineer of any shortage, defect or default in these materials. Unless otherwise agreed by both Parties, Narok County Government 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 Narok County Government 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 Particular Conditions, monthly progress reports shall be prepared by the Contractor and submitted to the Engineer 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.

4.21.3 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) comparisons of actual 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.

4.21.4 The Contractor shall provide immediate notification to the Engineer of incidents in the following categories. Full details of such incidents shall be provided to the Engineer within the time frame agreed with the Engineer.

- a) confirmed or likely violation of any law or international agreement;
- b) any fatality or serious injury;
- c) significant adverse effects or damage to private property (e.g. vehicle accident, damage from fly rock, working beyond the boundary);
- d) major pollution of drinking water aquifer or damage or destruction of rare or endangered habitat (including protected areas) or species; or
- e) any allegation of sexual harassment or sexual misbehavior, child abuse, defilement, or other violations involving children.

4.22 Security of the Site

Unless otherwise stated in the Particular 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 Narok County Government 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 Engineer 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.

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.

4.23.2 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 Engineer 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 Engineer shall proceed in accordance with SubClause 3.5 [Determinations] to agree or determine these matters.

5. NOMINATED SUB CONTRACTORS

5.1 Definition of "nominated Subcontractor"

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

- a) Who is stated in the Contract as being a nominated Subcontractor, or
- b) whom the Engineer, under Clause 13 [Variations and Adjustments], instructs the Contractor to employ 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 Engineer 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 Narok County Government 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 Narok County

Government 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 Engineer 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 SubClause 13.5 [Provisional Sums], except as stated in Sub-Clause 5.4 [Evidence of Payments].

5.4 Evidence of Payments

Before issuing a Payment Certificate which includes an amount payable to a nominated Subcontractor, the Engineer 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 Engineer in writing that the Contractor is reasonably entitled to withhold or refuse to pay these amounts, and
 - ii) submits to the Engineer reasonable evidence that the nominated Subcontractor has been notified of the Contractor's entitlement, then Narok County Government 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 subparagraphs (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 the Country.

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 thereof 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 labor from amongst the Procuring Entity's Personnel.
- 6.4 **Labor Laws**
- 6.4.1 The Contractor shall comply with all the relevant labor Laws applicable to the Contractor's Personnel, including Laws relating to their employment, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights.
- 6.4.2 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 SCC, unless: a) Otherwise stated in the Contract, b) The Engineer 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.
- 6.6 **Facilities for Staff and Labor**
- 6.6.1 Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. The Contractor shall also provide facilities for the Procuring Entity's Personnel as stated in the Specification.
- 6.6.2 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 Engineer may reasonably require.

6.7.4 HIV-AIDS Prevention. The Contractor shall conduct an HIV-AIDS awareness programme via an approved service provider and shall undertake such other measures as are specified in this Contract to reduce the risk of the transfer of the HIV virus 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 superintendence 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 specified in the SCC shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Engineer 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 may bring in to the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required residence visas and work permits. Narok County Government will, if requested by the Contractor, use his Lowest endeavors in a timely and expeditious manner to assist the Contractor or in obtaining any local, state, national or government permission required for bringing in the Contractor's personnel.

6.12.2 The Contractor shall be responsible for the return of these personnel to the place where they were recruited or to their domicile. In the event of the death in the Country 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 Foodstuffs

6.13.1 The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

6.14 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.

6.15 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.

6.16 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Laws of the Country, 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.

6.17 Arms and Ammunition

The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.

6.18 Festivals and Religious Customs

The Contractor shall respect the Country's recognized festivals, days of rest and religious or other customs.

6.19 Funeral Arrangements

The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of his local employees who may die while engaged upon the Works.

6.20 Prohibition of Forced or Compulsory Labor

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.

6.21 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 labor laws of the Country 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.

6.22 Employment Records of Workers

The Contractor shall keep complete and accurate records of the employment of labor 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].

6.23 Workers' Organizations

The Contractor shall comply with laws on workers' rights to form and to join workers' organizations without interference and to bargain collectively.

6.24 Non-Discrimination and Equal Opportunity

The Contractor shall not make employment decisions on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment relationship 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 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 Engineer for consent prior to using the Materials in 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 Engineer 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. The Contractor shall give notice to the Engineer whenever any work is ready and before it is covered up, put out of sight, or packaged for storage or transport. The Engineer shall then either carry out the examination, inspection, measurement or testing without unreasonable delay, or promptly give notice to the Contractor that the Engineer 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 thereafter reinstate and make good, all at the Contractor's cost.

7.4 Testing

7.2.1 This Sub-Clause shall apply to all tests specified in the Contract, other than the Tests after Completion (if any).

7.2.2 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.

The Engineer 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.

7.2.3 The Engineer shall give the Contractor not less than 24 hours' notice of the Engineer's intention to attend the tests. If the Engineer 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 Engineer's presence.

If the Contractor suffers delay and/or incurs Cost from complying with these instructions or as a result of a delay for which Narok County Government is responsible, the Contractor shall give notice to the Engineer 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.

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

The Contractor shall promptly forward to the Engineer duly certified reports of the tests. When the specified tests have been passed, the Engineer shall endorse the Contractor's test certificate, or issue a certificate to him, to that effect. If the Engineer 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 Engineer 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 Engineer 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 Narok County Government 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 Engineer 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, unforeseeable 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, Narok County Government 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 Narok County Government all costs arising from this failure.

7.7 Ownership of Plant and Materials

Except as otherwise provided in the Contract, each item of Plant and Materials shall, to the extent consistent with the Laws of the Country, become the property of Narok County Government 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 areas 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 conditions have all been fulfilled and the Engineer's notification recording the agreement of both Parties on such fulfilment and instructing to commence the Work is received by the Contractor:

- a) Contract by relevant authorities of the Country;
- b) delivery to the Contractor of reasonable evidence of the Procuring Entity's financial arrangements (under Sub-Clause 2.4 [Procuring Entity's Financial Arrangements]);
- c) signature of the Contract Agreement by both Parties, and if required, approval of the except if otherwise specified in the SCC, effective access to and possession of the Site given to the Contractor together with such permission(s) under (a) of SubClause 1.13 [Compliance with Laws] as required for the commencement of the Works
- d) receipt by the Contract or of the Advance Payment under Sub-Clause14.2 [Advance Payment] provided that the corresponding Procuring Entity guarantee has been delivered by the Contractor.

8.1.2 If the said Engineer's 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 16.2 [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 Programme

8.3.1 The Contractor shall submit a detailed time programme to the Engineer within 14 days after receiving the notice under Sub-Clause 8.1 [Commencement of Works]. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress or with the Contractor's obligations. Each programme shall include:

- a) the order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage of design (if any), Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing,
- b) each of these stages for work by each nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]),
- c) the sequence and timing of inspections and tests specified in the Contract, and
- d) a supporting report which includes:
 - i) a general description of the methods which the Contractor intends to adopt, and of the major stages, in the execution of the Works, and
 - ii) details showing the Contractor's reasonable estimate of the number of each class of Contractor's Personnel and of each type of Contractor's Equipment, required on the Site for each major stage.

8.3.2 Unless the Engineer, within 14 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Procuring Entity's Personnel shall be entitled to rely upon the programme when planning their activities.

8.3.3 The Contractor shall promptly give notice to the Engineer of specific probable future events or circumstances which may adversely affect the work, increase the Contract Price or delay the execution of the Works. The Engineer may require the Contractor to submit an estimate of the anticipated effect of the future event or circumstances, and/or a proposal under Sub-Clause 13.3 [Variation Procedure].

8.3.4 If, at any time, the Engineer gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contract or to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Engineer 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 Engineer in accordance with Sub-Clause 20.1 [Contractor's Claims]. When determining each extension of time under Sub-Clause 20.1, the Engineer 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 the Country,
- 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 programme under Sub-Clause 8.3 [Programme], other than as a result of a cause listed in Sub-Clause 8.4 [Extension of Time for Completion], then the Engineer may instruct the Contractor to submit, under Sub-Clause 8.3 [Programme], a revised programme and supporting report describing the revised methods which the Contractor proposes

to adopt in order to expedite progress and complete within the Time for Completion.

Unless the Engineer 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 Narok County Government 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.

- 8.6.2 Additional costs of revised methods including acceleration measures, instructed by the Engineer 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 Narok County Government for this default. These delay damages shall be the sum stated in the SCC, 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 SCC.

- 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 Engineer 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 Engineer 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 SubClauses

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 Engineer's instructions under Sub-Clause 8.8 [Suspension of Work] and/or from resuming the work, the Contractor shall give notice to the Engineer 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 notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

- 8.9.2 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 Engineer's 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 Engineer's permission to proceed. If the Engineer 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 Engineer 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 Engineer 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 subparagraph (d) of Sub-Clause 4.1 [Contractor's General Obligations].
- 9.1.2 The Contractor shall give to the Engineer not less than 21 days' notice of the date after which the Contract or 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 Engineer shall instruct.
- 9.1.3 In considering the results of the Tests on Completion, the Engineer shall make allowances for the effect of any use of the Works by Narok County Government 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

- 9.2.1 If the Tests on Completion are being unduly delayed by the Procuring Entity, SubClause 7.4 [Testing] (fifth paragraph) and/or Sub-Clause 10.3 [Interference with Tests on Completion] shall be applicable.

If the Tests on Completion are being unduly delayed by the Contractor, the Engineer 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 Contract or may fix and of which he shall give notice to the Engineer. 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 Tests 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 Contract or and the results of the Tests shall be accepted as accurate. **9.3 Retesting**

If the Works, or a Section, fail to pass the Tests on Completion, Sub-Clause 7.5 [Rejection] shall apply, and the Engineer 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 SubClause

9.3 [Retesting], the Engineer shall be entitled to:

- a) Order further repetition of Tests on Completion under Sub-Clause 9.3;
- b) If the failure deprives Narok County Government of substantially the whole benefit of the Works or Section, reject the Works or Section (as the case may be), in which event Narok County Government shall have the same remedies as are provided in sub-paragraph (c) of Sub-Clause 11.4 [Failure to Remedy Defects]; or
- c) Issue a Taking-Over Certificate, if Narok County Government so requests.

- 9.2.2 In the event of sub-paragraph (c), the Contractor shall proceed in accordance with all other obligations under the Contract, and the Contract Price shall be reduced by such amount as shall be appropriate to cover the reduced value to Narok County Government as a result of this failure. Unless the relevant reduction for this failure is stated (or its method of calculation is defined) in the Contract, Narok County Government may require the reduction to be (i) agreed by both Parties (in full satisfaction of this failure only) and paid before this Taking-Over Certificate is issued, or

(iii) determined and paid under Sub-Clause 2.5 [Procuring Entity's Claims] and SubClause 3.5 [Determinations].

10. PROCURING ENTITY'S TAKING OVER

11. 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 Narok County Government 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 Engineer 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 Engineer 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 Engineer 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 Engineer may, at the sole discretion of the Procuring Entity, issue a Taking-Over Certificate for any part of the Permanent Works.

Narok County Government 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 Engineer has issued a Taking-Over Certificate for this part. However, if Narok County Government 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 Engineer shall issue a Taking-Over Certificate for this part.

10.2.2 After the Engineer 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.

10.2.3 If the Contractor incurs Cost as a result of Narok County Government taking over and/or using a part of the Works, other than such use as is specified in the Contract agreed by the Contractor, the Contractor shall (i) give notice to the Engineer and (ii) be

entitled subject to Sub-Clause 20.1 [Contractor's Claims] to payment of any such Cost-plus profit, which shall be included in the Contract Price. After receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this Cost and profit.

10.2.4 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 Engineer 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 Narok County Government is responsible, Narok County Government 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.

The Engineer 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 Engineer 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.

10.3.2 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 Engineer 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.

11.1.2 After receiving this notice, the Engineer 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.

12. DEFECTS LIABILITY

12.1 Completion of Outstanding Work and Remedying Defects

12.1.1 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) Narok County Government on or before the expiry date of the Defects Notification Period for the Works or Section (as the case may be).

12.1.2 If a defect appears or damage occurs, the Contractor shall be notified accordingly, by (or on behalf of) the Procuring Entity.

12.2 Cost of Remedying Defects

12.2.1 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.

12.2.2 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.

12.3 Extension of Defects Notification Period

12.3.1 Narok County Government 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.

12.3.2 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.

12.4 Failure to Remedy Defects

12.4.1 If the Contractor fails to remedy any defect or damage within a reasonable time, a date may be fixed by (or on behalf of) the Procuring Entity, on or by which the defect or damage is to be remedied. The Contractor shall be given reasonable notice of this date.

12.4.2 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], Narok County Government 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 Narok County Government the costs reasonably incurred by Narok County Government in remedying the defect or damage;
- b) Require the Engineer 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 Narok County Government 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.

12.4.3 Without prejudice to any other rights, under the Contractor otherwise, Narok County Government 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.

12.5 Removal of Defective Work

If the defect or damage cannot be remedied expeditiously on the Site and Narok County Government 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.

12.6 Further Tests

12.6.1 If the work of remedying of any defect or damage may affect the performance of the Works, the Engineer may require the repetition of any of the tests described in the Contract. The requirement shall be made by notice within 30 days after the defect or damage is remedied.

12.6.2 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.

12.7 Right of Access

Until the Performance 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.

12.8 Contractor to Search

The Contractor shall, if required by the Engineer, search for the cause of any defect, 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 Engineer in accordance with Sub-Clause 3.5 [Determinations] and shall be included in the Contract Price.

12.9 Completion Certificate

- 12.9.1 Performance of the Contractor's obligations shall not be considered to have been completed until the Engineer has issued the Performance Certificate to the Contractor, stating the date on which the Contractor completed his obligations under the Contract.
- 12.9.2 The Engineer shall issue the Performance Certificate within 30 days after the latest of the expiry dates of the Defects Notification Periods, 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 Performance Certificate shall be issued to the Procuring Entity.
- 12.9.3 Only the Performance Certificate shall be deemed to constitute acceptance of the Works.

12.10 Unfulfilled Obligations

After the Performance 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.

12.11 Clearance of Site

- 12.11.1 Upon receiving the Performance Certificate, the Contractor shall remove any remaining Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works from the Site.
- 12.11.2 If all these items have not been removed within 30 days after receipt by the Contractor of the Performance Certificate, Narok County Government may sell or otherwise dispose of any remaining items. Narok County Government shall be entitled to be paid the costs incurred in connection with, or attributable to, such sale or disposal and restoring the Site.

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.

13. MEASUREMENT AND EVALUATION

13.1 Works to be Measured

- 13.1.1 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.
- 13.1.2 Whenever the Engineer 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 Engineer in making the measurement, and

(b) supply any particulars requested by the Engineer.

If the Contractor fails to attend or send a representative, the measurement made by (or on behalf of) the Engineer shall be accepted as accurate.

13.1.3 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.

13.1.4 If the Contractor examines and disagrees the records, and/or does not sign them as agreed, then the Contractor shall give notice to the Engineer of the respects in which the records are asserted to be inaccurate. After receiving this notice, the Engineer 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 Engineer within 14 days after being requested to examine the records, they shall be accepted as accurate.

13.2 Method of Measurement

Except as otherwise stated in the Contract and notwithstanding local practice:

- 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 Bills of Quantities or other applicable Schedules.

13.3 Evaluation

13.3.1 Except as otherwise stated in the Contract, the Engineer shall proceed in accordance with Sub-Clause

3.5 [Determinations] to agree or determine the Contract Price 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. 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.

13.3.2 Any item of work included in the Bills of Quantities for which no rate or price was specified shall be considered as included in other rates and prices in the Bills of Quantities and will not be paid for separately.

However, a new rate or price shall be appropriate for an item of work if:

- a) i) the measured quantity of the item is changed by more than 25% from the quantity of this item in the Bills of Quantities or another Schedule,
- ii) This change in quantity multiplied by such specified rate for this item exceeds 0.25% of the Accepted Contract Amount, iii) This change in quantity directly changes the Cost per unit quantity of this item by more than 1%, and
- iv) This item is not specified in the Contract as a "fixed rate item"; or

- b) i) the work is instructed under Clause 13 [Variations and Adjustments], ii) no rate or price is specified in the Contract for this item, and iii) 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.

13.3.3 Each new rate or price shall be derived from any relevant rates or prices in the Contract, with reasonable adjustments to take account of the matters described in subparagraph (a) and/or (b), as applicable. If no rates or prices are relevant for the derivation of a new rate or price, it shall be derived from the reasonable Cost of executing the work, together with profit, taking account of any other relevant matters.

13.3.4 Until such time as an appropriate rate or price is agreed or determined, the Engineer shall determine a provisional rate or price for the purposes of Interim Payment Certificates as soon as the concerned work commences.

13.3.5 Where the contract price is different from the corrected tender price, in order to ensure the contractor is not paid less or more relative to the contract price (which would be the tender price), payment valuation certificates and variation orders on omissions and additions valued based on rates in the Bill of Quantities or schedule of rates in the Tender, will be adjusted by a plus or minus percentage. The percentage already worked out during tender evaluation is worked out as follows: $(\text{corrected tender price} - \text{tender price}) / \text{tender price} \times 100$.

13.4 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 Engineer accordingly, with supporting particulars. Upon receiving this notice, the Engineer shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this cost, which shall be included in the Contract Price.

14. VARIATIONS AND ADJUSTMENTS

14.1 Right to Vary

14.1.1 Variations may be initiated by the Engineer 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.

14.1.2 The Contractor shall execute and be bound by each Variation, unless the Contractor promptly gives notice to the Engineer 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 Engineer shall cancel, confirm or vary the instruction.

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.

14.1.3 The Contractor shall not make any alteration and/or modification of the Permanent Works, unless and until the Engineer instructs or approves a Variation.

14.2 Value Engineering

14.2.1 The Contractor may, at any time, submit to the Engineer a written proposal which (in the Contractor's opinion) will, if adopted, (i) accelerate completion, (ii) reduce the cost to Narok County Government of executing, maintaining or operating the Works, (iii) improve the efficiency or value to Narok County Government of the completed Works, or (iv) otherwise be of benefit to the Procuring Entity.

14.2.2 The proposal shall be prepared at the cost of the Contractor and shall include the items listed in Sub-Clause 13.3 [Variation Procedure].

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 Engineer 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 13.7 [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 Narok County Government of the varied works, taking account of any reductions in quality, anticipated life or operational efficiencies.

14.2.3 However, if amount (i) is less than amount (ii), there shall not be a fee.

14.3 Variation Procedure

14.3.1 If the Engineer 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 programme for its execution,
- b) the Contractor's proposal for any necessary modifications to the programme according to Sub-Clause 8.3 [Programme] and to the Time for Completion, and
- c) the Contractor's proposal for evaluation of the Variation.

14.3.2 The Engineer shall, as soon as practicable after receiving such proposal (under SubClause 13.2 [Value Engineering] or otherwise), respond with approval, disapproval or comments. The Contractor shall not delay any work whilst awaiting a response.

14.3.3 Each instruction to execute a Variation, with any requirements for the recording of Costs, shall be issued by the Engineer to the Contractor, who shall acknowledge receipt.

Each Variation shall be evaluated in accordance with Clause 12 [Measurement and Evaluation], unless the Engineer instructs or approves otherwise in accordance with this Clause.

14.4 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.

14.5 Provisional Sums

14.5.1 Each Provisional Sum shall only be used, in whole or in part, in accordance with the Engineer's 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 Engineer shall have instructed.

For each Provisional Sum, the Engineer 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.
 - iii) If there is no such rate, the percentage rate stated in the SCC shall be applied.

- 14.5.2 The Contractor shall, when required by the Engineer, produce quotations, invoices, vouchers and accounts or receipts in substantiation.
- 14.6 Daywork
- 14.6.1 For work of a minor or incidental nature, the Engineer 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-Clauses shall not apply.
- 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.
- 14.6.2 Except for any items for which the Daywork Schedule specifies that payment is not due, the Contractor shall deliver each day to the Engineer accurate statements in duplicate 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.
- 14.6.3 One copy of each statement will, if correct, or when agreed, be signed by the Engineer 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].
- 14.7 Adjustments for Changes in Legislation
- 14.7.1 The Contract Price shall be adjusted to take account of any increase or decrease in Cost resulting from a change in the Laws of the Country (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.
- 14.7.2 If the Contract or 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 Engineer 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 notice, the Engineer shall proceed in accordance with SubClause 3.5 [Determinations] to agree or determine these matters.

14.7.3 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

14.8 [Adjustments for Changes in Cost].

13.8 Adjustments for Changes in Cost

14.8.1 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.

14.8.2 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 SubClause. 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.

14.8.3 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:

$$P_n = a + b \frac{L_n}{L_o} + c \frac{E_n}{E_o} + d \frac{M_n}{M_o} + \dots \text{ where:}$$

“P_n” is the adjustment multiplier to be applied to the estimated contract value in the relevant currency of the work carried out in period “n”, this period being a month unless otherwise stated in the SCC;

“a” is a fixed coefficient, stated in the relevant table of adjustment data, representing the non-adjustable portion in contractual payments;

“b”, “c”, “d”, ... are coefficients representing the estimated proportion of each cost element related to the execution of the Works, as stated in the relevant table of adjustment data; such tabulated cost elements may be indicative of resources such as labor, equipment and materials;

“L_n”, “E_n”, “M_n”, ... are the current cost indices or reference prices for period “n”, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates); and

“L_o”, “E_o”, “M_o” ... are the base cost indices or reference prices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the Base Date.

- 13.8.4 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. For this 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.
- 13.8.5 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 Procuring Entity of the Country, of this relevant currency on the above date for which the index is required to be applicable.
- 13.8.6 Until such time as each current cost index is available, the Engineer 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.
- 13.8.7 If the Contractor fails to complete the Works within the Time for Completion, adjustment of prices thereafter 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.
- 13.8.8 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 Particular Conditions:

- a) the Contract Price 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 Bills 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 lumpsum price in the Schedules.

14.1.2 The Engineer may take account of the breakdown when preparing Payment Certificates, but shall not be bound by it.

14.1.3 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 be exempt from the payment of import duties and taxes upon importation.

14.2 Advance Payment

- 14.2.1 Narok County Government 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 Sub-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 SCC. Unless and until Narok County Government receives this guarantee, or if the total advance payment is not stated in the SCC, this Sub-Clause shall not apply.
- 14.2.2 The Engineer shall deliver to Narok County Government 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 Narok County Government 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 Procuring Entity or financial institution selected by the Contractor and shall be in the form annexed to the Particular Conditions or in another form approved by the Procuring Entity.
- 14.2.3 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.
- 14.2.4 Unless stated otherwise in the SCC, the advance payment shall be repaid through percentage deductions from the interim payments determined by the Engineer 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 SCC 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.
- 14.2.5 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 15.5 [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 six copies to the Engineer 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 SCC to the total of the above amounts, until the amount so retained by Narok County Government reaches the limit of Retention Money (if any) stated in the SCC;
- 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 Contract or otherwise, including those under Clause 20 [Claims, Disputes and Arbitration]; and
- g) the deduction of amounts certified in all previous Payment Certificates.

14.3.3 Where the contract price is different from the corrected tender price, in order to ensure the contractor is not paid less or more relative to the contract price (which would be the tender price), payment valuation certificates and variation orders on omissions and additions valued based on rates in the Bill of Quantities or schedule of rates in the Tender, will be adjusted by a plus or minus percentage. The percentage already worked out during tender evaluation is worked out as follows: $(\text{corrected tender price} - \text{tender price}) / \text{tender price} \times 100$.

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 Engineer 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 (see SCC for lists)
- 14.5.1 If this Sub-Clause applies, Interim Payment Certificates shall include, under subparagraph (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 subparagraph (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. The Engineer 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 a 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 the Country, 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 Engineer together with evidence of payment of freight and insurance, any other documents reasonably required, and an Procuring Entity guarantee in a form and issued by an entity approved by Narok County Government 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;

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.

14.5.3 The additional amount to be certified shall be the equivalent of eighty percent (80%) of the Engineer's 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.

14.5.4 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 SubClause 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 Narok County Government has received and approved the Performance Security. Thereafter, the Engineer shall, within 30 days after receiving a Statement and supporting documents, deliver to Narok County Government and to the Contractor an Interim Payment Certificate which shall state the amount which the Engineer fairly determines to be due, with all supporting particulars for any reduction or withholding made. However, prior to issuing the Taking-Over Certificate for the Works, the Engineer 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 SCC. In this event, the Engineer shall give notice to the Contractor accordingly.

14.6.2 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.

14.6.3 The Engineer 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 Engineer's acceptance, approval, consent or satisfaction.

14.7 Payment

14.7.1 Narok County Government shall pay to the Contractor:

- a) The first instalment of the advance payment within 42 days after issuing the Letter of Acceptance or within 21 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 56 days after the Engineer receives the Statement and supporting documents; or, at a time when the Procuring Entity's loan or credit (from which part of the payments to the Contractor is being made) is suspended, the amount shown on any statement submitted by the Contractor within 14 days after such statement is submitted, any discrepancy being rectified in the next payment to the Contractor; and
- c) the amount certified in the Final Payment Certificate within 56 days after Narok County Government receives this Payment Certificate; or, at a time when the Procuring Entity's loan or credit (from which part of the payments to the Contractor is being made) is suspended, the undisputed amount shown in the Final Statement within 56 days after the date of notification of the suspension in accordance with Sub-Clause 16.2 [Termination by Contractor].

14.7.2 Payment of the amount due in each currency shall be made in to Narok County Government account, nominated by the Contractor, in the payment country (for this 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 compounded 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 Unless otherwise stated in the Particular Conditions, these financing charges shall be calculated at the annual rate of three percentage points above the discount rate of the central Procuring Entity in the country of the currency of payment, or if not available, the inter-Procuring Entity offered rate, and shall be paid in such currency. The Contractor shall be entitled to this payment without formal notice or 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 Engineer 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 Notification Periods, the outstanding balance of the Retention Money shall be certified by the Engineer 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 Engineer 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 Particular 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 guarantee, in the form annexed to the Particular Conditions or in another form approved by Narok County Government and issued by a reputable Procuring Entity or financial institution selected by the Contractor, for the second half of the Retention Money. The Contractor shall ensure that the guarantee is in the amounts and currencies of the second half of the Retention Money and is valid and enforceable until the Contract or has executed and completed the Works and remedied any defects, as specified for the Performance Security in Sub-Clause 4.2. On receipt by Narok County Government of the required guarantee, the Engineer shall certify and Narok County Government shall pay the second half of the Retention Money. The release of the second half of the Retention Money against a guarantee shall then be in lieu of the release under the second paragraph of this Sub-Clause. Narok County Government shall return the guarantee to the Contractor within 21 days after receiving a copy of the Performance Certificate.

14.9.6 If the Performance Security required under Sub-Clause 4.2 is in the form of a demand guarantee, and the amount guaranteed under it when the Taking-Over Certificate is issued is more than half of the Retention Money, then the Retention Money guarantee will not be required. If the amount guaranteed under the Performance Security when the Taking-Over Certificate is issued is less than half of the Retention Money, the Retention Money guarantee will only be required for the difference between half of the Retention Money and the amount guaranteed under the Performance Security.

14.10 Statement at Completion

Within 84 days after receiving the Taking-Over Certificate for the Works, the Contractor shall submit to the Engineer six 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.

The Engineer 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 56 days after receiving the Performance 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 Contract otherwise.

14.11.2 If the Engineer disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Engineer 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 Engineer 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 Engineer and the Contractor and any changes to the draft final statement which are agreed, it becomes evident that a dispute exists, the Engineer shall deliver to Narok County Government (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 Narok County Government (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 Engineer shall deliver, to Narok County Government 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 Narok County Government for all amounts previously paid by Narok County Government and for all sums to which Narok County Government is

entitled, the balance (if any) due from Narok County Government to the Contractor or from the Contractor to the Procuring Entity, as the case may be.

14.13.1 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 Engineer shall request the Contractor to do so. If the Contractor fails to submit an application within a period of 30 days, the Engineer 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 Narok County Government 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 SubClause 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 SCC, shall be made in the currencies and proportions specified in the Schedule of Payment Currencies;
- c) other payments to Narok County Government 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 Narok County Government in a particular currency exceeds the sum payable by Narok County Government to the Contractor in that currency, Narok County Government 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 Procuring Entity of the Country.

15. TERMINATION BY PROCURING ENTITY

15.1 Notice to Correct

If the Contractor fails to carry out any obligation under the Contract, the Engineer may by notice require the Contractor to make good the failure and to remedy it within a specified reasonable time.

15.2 Termination by Procuring Entity

15.2.1 Narok County Government shall be entitled to terminate the Contract if the Contractor:

- 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 SubClause 7.5 [Rejection] or Sub-

Clause

7.6 [Remedial Work], within 30 days after receiving it,
- d) subcontracts the whole of the Works or assigns the Contract without the required agreement,
- 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 inducement or reward:
 - (i) for doing or forbearing 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 if any of the Contractor's Personnel, agents or Subcontractors gives or offers to give (directly or indirectly) to any person any such inducement or reward as is described in this sub-paragraph (f). However, lawful inducements and rewards to Contractor's Personnel shall not entitle termination, or

- g) 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, Narok County Government 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), Narok County Government 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 Contract or otherwise.

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 lowest 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.

After termination, Narok County Government may complete the Works and/or arrange for any other entities to do so. Narok County Government and these entities may then use any Goods, Contractor's Documents and other design documents made by or on behalf of the Contractor.

Narok County Government 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 Narok County Government 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 Engineer 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, Narok County Government 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 Narok County Government 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, Narok County Government shall pay any balance to the Contractor.

15.5 Procuring Entity's Entitlement to Termination for Convenience

15.5.1 Narok County Government shall be entitled to terminate the Contract, at any time for 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 Narok County Government returns the Performance Security. Narok County Government 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].

15.5.2 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

Narok County Government requires compliance with the national law and regulations against corruption. All available sanctions will apply where corruption is detected.

16. SUSPENSION AND TERMINATION BY CONTRACTOR

16.1 Contractor's Entitlement to Suspend Work

16.1.1 If the Engineer fails to certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates] or Narok County Government fails to comply with Sub-Clause 2.4 [Procuring Entity's Financial Arrangements] or Sub- Clause 14.7 [Payment], the Contractor may, after giving not less than 21days' notice to the Procuring Entity, suspend work (or reduce the rate of work) unless and until the Contractor has received the Payment Certificate, reasonable evidence or payment, as the case may be and as described in the notice.

16.1.2 Notwithstanding the above, if Narok County Government has suspended disbursements under the loan or credit from which payments to the Contractor are being made, in whole or in part, for the execution of the Works, and no alternative funds are available as provided for in Sub-Clause 2.4 [Procuring Entity's Financial Arrangements], the Contractor may by notice suspend work or reduce the rate of work at any time, but not less than 7 days after Narok County Government having received the suspension notification from the Procuring Entity.

16.1.3 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].

16.1.4 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.

16.1.5 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 Engineer 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.

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

16.2 Termination by Contractor

16.2.1 The Contractor shall be entitled to terminate the Contract if:

- a) the Contractor does not receive the reasonable evidence within 42 days after giving notice under Sub-Clause 16.1 [Contractor's Entitlement to Suspend Work] in respect of a failure to comply with Sub-Clause 2.4 [Procuring Entity's Financial Arrangements],
- b) the Engineer fails, within 56 days after receiving a Statement and supporting documents, to issue the relevant Payment Certificate,
- c) the Contractor does not receive the amount due under an Interim Payment Certificate within 42 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]),
- d) Narok County Government 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,
- e) Narok County Government fails to comply with Sub-Clause 1.6 [Contract Agreement] or Sub-Clause 1.7 [Assignment],
- f) a prolonged suspension affects the whole of the Works as described in Sub-Clause 8.11 [Prolonged Suspension], or
- g) Narok County Government 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.
- h) The Contractor does not receive the Engineer's 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].

16.2.2 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

subparagraph (f) or (g), the Contractor may by notice terminate the Contract immediately.

- 16.2.3 In the event Narok County Government suspends the loan or credit from which part or whole of the payments to the Contractor are being made, if the Contractor has not received the sums due to him upon expiration of the 14 days referred to in Sub-Clause 14.7 [Payment] for payments under Interim Payment Certificates, the Contractor may, without prejudice to the Contractor's entitlement to financing charges under Sub-Clause 14.8 [Delayed Payment], take one of the following actions, namely (i) suspend work or reduce the rate of work under Sub-Clause 16.1 above, or (ii) terminate the Contract by giving notice to the Procuring Entity, with a copy to the Engineer, such termination to take effect 14 days after the giving of the notice. The Contractor's election to terminate the Contract shall not prejudice any other rights of the Contractor, under the Contract or otherwise.

16.3 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 Engineer for the protection of life or property or for the safety of the Works,
- b) Handover 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.

16.4 Payment on Termination

After a notice of termination under Sub-Clause 16.2 [Termination by Contractor] has taken effect, Narok County Government 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 whatsoever 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 act or breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, or any of the 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, the irrelative agents, or any one directly or indirectly employed by any of them.

17.1.2 Narok County Government 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].

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, insofar as they directly affect the execution of the Works in the Country, are: 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, within the

Country,

- c) riot, commotion or disorder within the Country by persons other than the Contractor's Personnel,
- d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, within the Country, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity,
- e) pressure waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds,
- f) use or occupation by Narok County Government of any part of the Permanent Works, except as may be specified in the Contract,
- g) design of any part of the Works by the Procuring Entity's Personnel or by others for whom Narok County Government is responsible, and
- h) 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 Engineer 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 Engineer 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 sub-paragraphs (f) and (g) of Sub-Clause 17.3 [Procuring Entity's Risks], Cost plus profit shall be payable.

17.4.3 After receiving this further notice, the Engineer shall proceed in accordance with SubClause 3.5 [Determinations] to agree or determine these matters.

17.5 Intellectual and Industrial Property Rights

17.5.1 In this Sub-Clause, "infringement" means an infringement (or alleged infringement) of any patent, registered design, copyright, trademark, trade name, trade secret or other intellectual or industrial property right relating to the Works; and "claim" means 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 Narok County Government 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
 - ii) Contract, or iii) 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 Narok County Government 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.

17.6 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 indirect or 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 SCC, 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 Narok County Government provided accommodation and facilities, if any, as detailed in the Specification, from the respective dates of hand-over to the Contract or until cessation of occupation (where hand-over or cessation of occupation may take place after the date stated in the TakingOver 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 Narok County Government 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 Narok County Government 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 Narok County Government 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 SCC (calculated from the Commencement Date), submit to the other Party:
- a) Evidence that the insurances described in this Clause have been effected, 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.

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 attempts to make) any alteration, the Party first notified by the insurer shall promptly give notice to the other Party.

- 18.1.9 The insuring Party fails to effect and keep in force any of the insurances it is required to effect and maintain under the Contract or 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.
- 18.1.10 Nothing in this Clause limits the obligations, liabilities or responsibilities of the Contractor or the Procuring Entity, under the other terms of the Contract otherwise. Any amounts not insured or not recovered from the insurers shall be borne by the Contractor and/or Narok County Government 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.
- 18.1.11 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.
- 18.1.12 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, Materials 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 Particular Conditions, insurances under this SubClause:

- 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 Narok County Government of another part of the Works, and loss or damage from the risks listed in sub-paragraphs (c), (g) and (h) of SubClause 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 SCC(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 the Country, 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. Narok County Government 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 SCC, with no limit on the number of occurrences. If an amount is not stated in the SCC, this Sub-Clause shall not apply. Unless otherwise stated in the Particular 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 through any land, and to occupy this land for the Permanent Works, ii) damage which is an unavoidable result of the Contractor's obligations to execute the Works and remedy any defects, and iii) 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 Narok County Government and the Engineer 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 Narok County Government 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:

- i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
- ii) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
- iii) riot, commotion, disorder, strike or lock out by persons other than the Contractor's Personnel, iv) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio- activity, and
- v) 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.
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 the Country, 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 Engineer 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

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].

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

- a) The amounts 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) Narok County Government 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 their turn 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 labor 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 Narok County Government 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. CLAIMS, DISPUTES AND ARBITRATION

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.
- 20.1.2 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 Narok County Government shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Sub-Clause shall apply.
- 20.1.3 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.
- 20.1.3 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 Engineer 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 Engineer to inspect all these records, and shall (if instructed) submit copies to the Engineer.
- 20.1.4 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 Engineer a fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect:
 - a) This fully detailed claim shall be considered as interim;
 - b) The Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/or amount claimed, and such further particulars as the Engineer 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.
- 20.1.5 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 Engineer and approved by the Contractor, the Engineer shall respond with approval, or with

disapproval and detailed comments. He may also request any necessary further particulars, but shall nevertheless give his response on the principles of the claim within the above defined time period.

- 20.1.6 Within the above defined period of 42 days, the Engineer 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.
- 20.1.7 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.
- 20.1.8 If the Engineer does not respond within the time frame defined in this Clause, either Party may consider that the claim is rejected by the Engineer and any of the Parties may refer to Arbitration in accordance with Sub-Clause 20.4 [Arbitration].
- 20.1.9 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 Sub- Clause 20.3 (f).

20.2 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 SubClause 20.1 above should move to commence arbitration after the fifty-sixth day from the day on which a notice of a claim was given, even if no attempt at an amicable settlement has been made.

20.3 Matters that may be referred to arbitration

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

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

Contract, unless Narok County Government and the Contractor agree otherwise in writing.

20.4 Arbitration

- 20.4.1 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.
- 20.4.2 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.
- 20.4.3 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.
- 20.4.4 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.
- 20.4.5 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 requirement or notice had been given.
- 20.4.6 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 Engineer from being called as a witness and giving evidence before the arbitrators on any matter whatsoever relevant to the dispute.
- 20.4.7 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.
- 20.4.7 Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, and the Engineer shall not be altered by reason of any arbitration being conducted during the progress of the Works.
- 20.4.8 The terms of the remuneration of each or all the members of Arbitration shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration.

20.5 Arbitration with National Contractors

- 20.5.1 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

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

20.6 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].

20.7 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.

20.8 Failure to Comply with Arbitrator's Decision

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

20.8.2 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.

10.7 Contract operations continue

Notwithstanding any reference to arbitration herein,

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

–

SECTION IX - SPECIAL CONDITIONS OF CONTRACT

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

Conditions	GCC Clause	Data
Procuring Entity's name and address	1	NAROK COUNTY GOVERNMENT, P. O. BOX 898-20500 City: Narok- KENYA
Time for Completion	1	16 Weeks
Client		Department of Education
Project Manager's name and address	1	Department of public works Narok County Government, P. O. Box 898-20500 Narok- KENYA
Site	1	The site is located Narok East
Electronic transmission	1.3	Electronic Transmission shall be allowed on Email and shall be regarded as an advance copy. Only official emails shall be used in communication between the Contract Parties
Time for the Parties entering into a Contract Agreement	1.6	14 days after Notification of award and end of stand still period
Time for access to the Site	2.1	No later than the Commencement Day
Project Manager's Authority to make variations.	3.1.2 (b)(ii)	Variation would increase the Accepted Contract Amount by not exceeding-1-% of the contract Price.
		Variations resulting in an increase of the Accepted Contract Amount in excess of <u>1</u> % shall require approval of the Procuring Entity.
Performance Security	4.2.2	The performance security will be in the form of a bank guarantee or Insurance in the amount(s) of 5% Percent of the Accepted Contract Amount in the same currency (ies) of the Contract Amount.
Contractor's Representative's name	4.3	[insert the name of the Contractor's Representative agreed by Narok County Government prior to Contract signature] Shall be as nominated through a letter signed by an advocate or directors
Working Hours	6.5	Normal working hours shall be from 0800 Hrs to 1700hrs from Monday to Friday..

Key Personnel names	6.9.1	[insert the name of each Key Personnel agreed by Narok County Government prior to Contract signature] As defined in the definitions and section...of Contract
Commencement of Works	8.1.1(c)	Immediately after signing of contract or As shall be agreed with the Project Manager
Delay Damages	8.7.1	Delay damages shall be 0.05% per day of delay to a maximum of 5 % of the final Contract Price.
Defects Notification Period		90 days or 3 Months.

Section IX Special Conditions of Contract

Conditions	GCC Clause	Data
Adjustments for Changes in Cost	13.8.3	Period “n” applicable to the adjustment multiplier “Pn”: is NOT APPLICABLE
Delay damages for the Works	8.7 & 14.15(b)	- of the Contract Price per day. If Sections are to be used, refer to Table: Summary of Sections below
Provisional Sums	13.5. (b)(iii)	[If there are Provisional Sums, insert a percentage for adjustment of Provisional Sums] _____%, otherwise insert “NONE”.
Total advance payment	14.2.1	_____% Percentage of the Accepted Contract Amount payable in the currencies and proportions in which the Accepted Contract Amount is payable No provision for advance payment
Repayment amortization rate of advance payment	14.2.4(b)	Not applicable
Limit of Retention	14.3.2(c)	The limit of Retention Money (if any) shall be 5% of the Contract Amount
Percentage of Retention	14.3.2(c)	10% of the Contract Amount
Plant and Materials	14.5.2(b)(i)	If Sub-Clause 14.5 applies: Plant and Materials for payment Free on Board _____ [list].
	14.5.2(c)(i)	Plant and Materials for payment when delivered to the Site _____ [list].
Minimum Amount of Interim Payment Certificates	14.6.1	25 % of the Accepted Contract Amount

Publishing source of commercial interest rates for financial charges in case of delayed payment	14.8	Three percentage points above the discount rate given by the Central bank of Kenya.

Maximum total liability of the Contractor to Narok County Government	17.6.2	[Select one of the two options below as appropriate] The product of _____ [insert a multiplier less or greater than one] times the Accepted Contract Amount, or _____ [insert amount of the maximum total liability]
Periods for submission of insurance:	18.1.6	After signing of contract but before commencement.
a. evidence of insurance.		14 days
b. relevant policies		7 days
Maximum number of deductibles for insurance of the Procuring Entity's risks	18.2(d)	[Insert maximum amount of deductibles]
Minimum amount of thirdparty insurance	18.3.2	Kshs 1000,000.00
The place of arbitration	20.7.2	The place of arbitration shall be anywhere agreed upon by the parties.

SECTION X - CONTRACT FORMS

1. Form No. 1 - Notification of Intention to Award

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

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

FORMAT

For the attention of Tenderer's Authorized Representative

- i) Name [insert Authorized Representative's name] ii)
- Address: [insert Authorized Representative's Address]
- iii) Telephones: [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: This Notification is sent by: [email] on [date] (local time)

Procuring Entity: [insert the name of the Procuring Entity] Contract title: [insert the name of the contract]

Country: Kenya, County_____ (if Narok County Government is from a County)

3. This Notification of Intention to Award (Notification)

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

- a) Request a debriefing in relation the evaluation of your Tender, and/or
- b) Submit a Procurement-related Complaint in relation to the decision to award the contract.

1. The successful Tenderer

Name: [insert name of successful Tenderer]. Address: [insert address of the successful Tenderer]

Contract price: [insert contract price of the successful Tender]

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

	Name of Tenderer	Tender price	Evaluated price	Tender	Comments (if any)
1					

3. How to request a debriefing

DEADLINE: The deadline to request a debriefing expires at midnight on [insert date] (local time).

You may request a debriefing in relation to the results of the evaluation of your Tender. If you decide to request a debriefing your written request must be made within three (3) Business Days of receipt of this Notification of Intention to Award. Provide the contract name, reference number, name of the Tenderer, contact details; and address the request for debriefing as follows:

Attention: [insert full name of person, if applicable] Title/position: [insert title/position]
Procuring Entity: [insert name of Procuring Entity] Email address: [insert email address]

If your request for a debriefing is received within the 3 Business Days deadline, we will provide the debriefing within five (5) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (5) Business Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end. The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.

If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of the Contract Award Notice.

4. How to make a complaint

Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [insert date] (local time).

Provide the contract name, reference number, name of the Tenderer, contact details; and address the Procurement- related Complaint as follows:

Attention: [insert full name of person, if applicable] Title/position: [insert title/position]
Procuring Entity: [insert name of Procuring Entity] Email address: [insert email address]

At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.

In summary, there are four essential requirements:

- a) 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.
- b) The complaint can only challenge the decision to award the contract.
- c) You must submit the complaint within the period stated above.

- d) You must include, in your complaint, all of the information necessary to support your case.
- e) The application must be accompanied by the fees set out in the Procurement Regulations, which shall not be refundable (information available from the Public Procurement Authority at www.ppoa.go.ke).

5. Standstill Period

- a) DEADLINE: The Standstill Period is due to end at midnight on [insert date] (local time).
 - (i) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention to Award.
 - (ii) The Standstill Period may be extended as stated in Section 4 above. If you have any questions regarding this Notification please do not hesitate to contact us. On behalf of the Procuring Entity:

Name _____

Title _____

Position _____ Signature _____ Date _____

FORM NO. 2 - REQUEST FOR REVIEW

FORM FOR REVIEW (r.203 (1))

PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

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

BETWEEN

.....APPLICAN

T

AND

.....RESPONDENT (Procuring Entity)

Request for review of the decision of the..... (Name of Narok County Government 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/orders that:

1.

2.

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

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

SIGNED

Board Secretary

FORM NO. 3 - LETTER OF AWARD

[Letter Head Paper Of The

Procuring Entity]

[Date]

FORMAT

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 SCC] for the Accepted Contract Amount [amount in numbers and words] [name of currency], as corrected and modified in accordance with the Instructions to Tenderers, is hereby accepted by our Agency.

You are requested to furnish the Performance Security within 30 days in accordance with the Conditions of Contract, using, for that purpose, one of the Performance Security Forms included in Section X, Contract Forms, of the tender document.

We attach a copy of the Contract for your

Authorized Signature: Name and Title of Signatory: Name of Agency:

Attachment: Contract Agreement

FORM NO. 4 – CONTRACT AGREEMENT

THIS AGREEMENT made this _____ day of _____, _____, between _____ of _____ (hereinafter “the

Procuring Entity”), of the one part, and _____ of _____ (herein after “the Contractor”), of the other part:

WHEREAS Narok County Government desires that the Works known as _____ should be executed by the Contractor, and has accepted a Tender by the Contractor for the execution and completion of these Works and the remedying of any defects therein, Narok County Government and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents. a) The Letter of Acceptance b) The Letter of Tender
c) The addenda Nos _____ (if any)
d) The Particular Conditions
e) The General Conditions;
f) The Specification
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 Narok County Government to the Contractor as specified in this Agreement, the Contractor hereby covenants with Narok County Government to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. Narok County Government hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Kenya on the day, month and year specified above.

Signed by _____

_____(For the Procuring Entity)

Signed by _____

_____(For the Contractor)

FORM NO. 5 - PERFORMANCE SECURITY

(Unconditional Demand Bank Guarantee)

[Guarantor letterhead or SWIFT identifier code]

Beneficiary:_[insert name and Address of Procuring Entity] Date:_[Insert date of issue]

PERFORMANCE GUARANTEE No.: _____

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

1. We have been informed that__(herein after called "the Applicant") has entered into Contract No._dated with the Beneficiary, for the execution of _____ (herein after 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 Applicant, we as Guarantor, here by irrevocably undertake to pay _____¹ the Beneficiary any sum or sums not exceeding in total an amount of_(), 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...², and any demand for payment under it must be received by us at this 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 (cies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

Insert the date twenty-eight days after the expected completion date as described in GC Clause 11.9. Narok County Government should note that in the event of an extension of this date for completion of the Contract, Narok County Government 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. In preparing this guarantee, Narok County Government might consider adding the following text to the form, at the end of the penultimate paragraph: “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.”

Form No. 6 Performance Security Option 2– (Performance Bond)

[Note: Procuring Entities are advised to use Performance Security–Unconditional Demand Bank Guarantee instead of Performance Bond due to difficulties involved in calling Bond holder to action] [Guarantor letterhead or SWIFT identifier code]

Beneficiary: _____ [insert name and Address of Procuring Entity]

Date: _____ [Insert date of issue] PERFORMANCE

BOND No.: _____

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

1. By this Bond _____ as Principal (hereinafter called “the Contractor”) and [_____] as Surety (hereinafter called “the Surety”), are held and firmly bound unto _____ as Obligee (hereinafter called “the Procuring Entity”) in the amount of _____ 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 Narok County Government dated the day of, 20_, for in accordance with the documents, plans, specifications, and amendments thereto, which to the extent here in provided for, are by reference made part hereof and are herein 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 Narok County Government to be, in default under the Contract, Narok County Government having performed the Procuring Entity's obligations there under, the Surety may promptly remedy the default, or shall promptly:
 - 1) Complete the Contract in accordance with its terms and conditions; or
 - 2) Obtain a tender or tenders from qualified tenderers for submission to Narok County Government for completing the Contract in accordance with its terms and conditions, and upon determination by Narok County Government and the Surety of the lowest responsive Tenderers, arrange for a Contract between such Tenderer, and Procuring Entity and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term “Balance of the Contract Price,” as used in this paragraph, shall mean the total amount payable by Procuring Entity to Contractor under the Contract, less the amount properly paid by Procuring Entity to Contractor; or
 - 3) Pay Narok County Government 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 Narok County Government named here in or the heirs, executors, administrators, successors, and assigns of the Procuring Entity.

6. In testimony where of, 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 attested by the signature of his legal representative, this day _____ of 20____.

SIGNED ON _____ on behalf of _____ By

_____ in the capacity of _____

In the presence of

SIGNED ON _____ on behalf of _____ By

_____ in the capacity of _____

FORM NO. 7 ADVANCE PAYMENT SECURITY

[Demand Bank Guarantee] [Guarantor letterhead or SWIFT identifier code] [Guarantor letterhead

o

rSWIFT identifier code]

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_(herein after called "the Applicant") has entered into Contract No._dated with the Beneficiary, for the execution of
(herein after called" the Contract").
2. Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum _____() is to be made against an advance payment guarantee.
3. At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay 1 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 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 Applicant 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 Applicant as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, less provisional sums, has been certified for payment, or on the_day of _____,2
2
_____ whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.
6. The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's Written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.
[Name of Authorized Official, signature(s) and seals/stamps]

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

¹The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency (ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Procuring Entity.

²Insert the expected expiration date of the Time for Completion. Narok County Government should note that in the event of an extension of the time for completion of the Contract, Narok County Government 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. In preparing this guarantee, Narok County Government might consider adding the following text to the form, at the end of the penultimate paragraph: “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.”

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] (herein after 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] (herein after called" the Contract").
2. Furthermore, we understand that, according to the conditions of the Contract, the Beneficiary retains moneys upto the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, and payment of [insert the second half of the Retention Money] is to be made against a Retention Money guarantee.
3. At the request of the Contractor, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of [insert amount in

1 figures]

_____([insert amount in words_])

upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or show grounds for your demand or the sum specified therein.

4. A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the second half of the Retention Money as referred to above has been credited to the Contractor on its account number at _____ [insert name and address of Applicant's bank].
5. This guarantee shall expire no later than the..... Day of....., 2...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 foot notes) 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.

Insert a date that is twenty-eight days after the expiry of retention period after the actual completion date of the contract. Narok County Government should note that in the event of an extension of this date for completion of the

Contract, Narok County Government 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 here by provide the following beneficial ownership information.

Details of beneficial ownership

	Details of all Beneficial Owners		% of shares a person holds in the company Directly or indirectly	% of voting rights a person holds in the company	Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer (Yes / No)	Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)
1.	Full Name		Directly-----	Directly.....	1. Having the right to appoint a majority of the board of the directors or an equivalent governing body of	1. Exercises significant influence or control over the
	National identity card number or		----- %	% of voting rights		

Passport number		of shares	Indirectly----- - % of voting rights	the Tenderer: Yes - -----No----- 2. Is this right held directly or	Company body of the Company (tenderer) Yes -----No-----
Personal Identification Number (where applicable)		Indirectly--- - - ----- % of shares			

Nationality				indirectly?:	2. Is this influence or control exercised directly or indirectly?
Date of birth [dd/mm/yyyy]				Direct.....	
Postal address				...	
Residential address				Indirect.....	Direct.....
Telephone number					Indirect.....
Email address					
Occupation or profession					

	Details of all Beneficial Owners		% of shares a person holds in the company Directly or indirectly	% of voting rights a person holds in the company	Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer (Yes / No)	Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)
2.	Full Name		Directly----- ----- %	Directly.....% of voting rights	1. Having the right to appoint a majority of the board of the directors or an	1. Exercises significant influence or control over the Company body of the Company (tenderer)
	National identity card number or Passport number			Indirectly----- -	equivalent governing body of the Tenderer: Yes -	

	Personal Identification Number (where applicable)		of shares	% of voting rights	----No---- 2. Is this right held directly or indirectly?: Direct..... ... Indirect.....	Yes ----No---- 2. Is this influence or control exercised directly or indirectly? Direct..... Indirect.....
	Nationality(ies)		Indirectly--- - ----- % of shares			
	Date of birth [dd/mm/yyyy]					
	Postal address					
	Residential address					
	Telephone					
	number					
	Email address					
	Occupation or profession					
3.						
e.t.c						

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

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

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

-

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

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

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

** [insert complete name of person duly authorized to sign the Tender]

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

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

above]

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

Bidder Official Stamp

SITE VISIT CERTIFICATE FOR THE PROPOSED CONSTRUCTION AND UPGRADING OF
VARIOUS SUBCOUNTY HOSPITALS IN NAROK COUNTY GOVERNMENT.

1. This is to certify that;

.....

(Name and address of tenderer or the Firm intending to participate in the tender process)

2. This is to certify that I

.....

(Name of tenderer's representative) visited the site in connection with tender for,

TENDER

NAME:.....

TENDER NO:.....

..

3. Having previously studied the contract Documents, I carefully examined the site.

4. I have made myself familiar with the local conditions and access roads likely to influence the works and the cost thereof.

5. I further certify that I am satisfied with description of the work and the explanations given by the said representative and that I understand perfectly the work to be done as specified and implied in the execution of the contract.

Signed Date

Name

(Tenderer or his representative)

Signed Date

Name

(Supply chain officer- Narok County Government -To be signed at the boardroom)

Signed Date

Name

(Project Manager/representative - Narok County Government)

NB: Original to be checked against the submitted copy.

BILLS OF QUANTITIES

2024

BILL NO.1
PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT
	<u>PARTICULAR PRELIMINARIES</u>	
A	EMPLOYER The Employer is COUNTY GOVERNMENT OF NAROK P.O Box 898-20,500, Narok The term "Employer" and "Government" wherever used in the contract Document shall be synonymous.	
B	PROJECT MANAGER-DIRECTOR PUBLIC WORKS The term "P.M" or "Project Manager" wherever used in these Bills of Quantities shall be deemed to imply the "Engineer" as defined in Clause 3.1.1 In the Section Viii - General Conditions Of Contract (GCC) or such person or persons as may be duly authorized to represent him on behalf of the Government.	
C	ARCHITECT The term "Architect" shall be deemed to mean "the P.M" as defined above whose address, unless otherwise notified, is the "P.M" or "Project Manager"	
D	QUANTITY SURVEYOR The term "Quantity Surveyor" shall be deemed to mean "the P.M" as defined above whose address, unless otherwise notified, is the "P.M" or "Project Manager"	
E	STRUCTURAL ENGINEER The term "Structural Engineer" shall be deemed to mean "the P.M" as defined above whose address, unless otherwise notified, is the "P.M" or "Project Manager"	
F	ELECTRICAL ENGINEER The term "Electrical Engineer" shall be deemed to mean "the P.M" as defined above whose address, unless otherwise notified, is the "P.M" or "Project Manager"	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	MECHANICAL ENGINEER The term "Mechanical Engineer" shall be deemed to mean "the P.M" as defined above whose address, unless otherwise notified, is the "P.M" or "Project Manager"	
B	INTERIOR DESIGNER The term "Interior Designer" shall be deemed to mean "the P.M" as defined above whose address, unless otherwise notified, is the "P.M" or "Project Manager"	
C	SCOPE OF CONTRACT Construction of single storeyed structure comprising: Reinforced concrete strip foundations and ground beams', reinforced concrete Columns and beams, load bearing external walls plastered and painted externally and plastered and painted internally; Load bearing and non-load bearing internal walls plastered and painted both sides ; IT5 roof covering on Steel roof structures; Mild steel doors ; standard metal casement glazed windows; painted chip board ceiling; associated Electrical Works	
C	<u>FLOOR AREAS</u> <i>Note: The above areas are given as a guide a no warranty is given for their accuracy.</i>	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	URGENCY OF THE WORKS The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries. The Contractor shall allow in his rates for any costs he/ she deems that he/she may incur by having to complete these works within the stipulated contract period. B LOCATION OF SITE The site of the proposed works is located The contractor shall be deemed to have visited the site and satisfied himself as follows; a) The nature, position, topography and access of the site b) The amount of the rubbish or debris to be cleared away before commencement c) The nature, current usage, proximity and size of adjoining property and buildings d) The availability of land for the erection and positioning of all temporary structures, plant and materials necessary for the execution of the works. The Contractor shall obtain approval from the relevant Local Authority in adherence to site access and erection of temporary structures and must ensure all matters relating to the requirements of these authorities. No claim will be allowed for travelling or other expenses which may be incurred by the Contractor in visiting the site or preparing the tender for the works. The Contractor is advised that the site is within a compound in use and all measures should be taken to avoid nuisance to the existing users. All occupation health and safety requirements must be met as required by law. This includes prevention/ minimizing noise, dust, fumes, providing access to public facilities as required (lifts, washrooms, staircases). Notices should be given prior to disruption of services. Where necessary the Contractor will provide temporary facilities for use as instructed by the Project Manager.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	MEASUREMENTS In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with the said Conditions.	
B	DEMOLITIONS AND ALTERATIONS The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc. as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Project Manager. The works shall be propped, strutted and supported as necessary before any alteration or demolition work commences. Prices shall include for all cleaning and preparatory work to structure and finishes and for making good to all finishes on completion whether or not specifically described Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and 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.	
C	MATERIALS FROM DEMOLITIONS Any materials arising from demolitions and not re-used shall become the property of the client. The Contractor shall allow in his rates the cost of transporting the demolished materials to where directed by the Project Manager.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	CLEARING AWAY The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean, The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.	
B	CLAIMS / COMPENSATION EVENTS It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and /or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such a claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claim shall be entertained upon the expiry of the said contract period.	
C	PAYMENTS Payments shall be in accordance with the Conditions of Contract Agreement. In order to facilitate this, a list of the general component elements for the works is given at the summary page of these specifications and the tenderer is requested to break down his tender sum commensurate to the said elements.	
D	PAYMENT FOR MATERIALS ON SITE All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub Contractors and nominated suppliers.	
E	PREVENTION OF ACCIDENT, DAMAGE OR LOSS The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is thus instructed to take reasonable care in the execution of the works as to prevent accident	
F	WORKING CONDITIONS The Contractor shall allow in his rates for any interference that he may encounter in the course of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed.	
G	SIGNBOARD Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	LABOUR CAMPS The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.	
B	PRICING RATES The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, all to comply with the said Conditions of Contract.	
C	SECURITY The Contractor shall allow for providing adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the Contractor for not maintaining adequate security for both the works and workers.	
D	PAYMENT FOR MATERIALS ON SITE All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.	
E	EXISTING SERVICES Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned	
F	BID SECURITY The Bidder shall furnish, as part of his bid, a security as specified in the tender advertisement and shall be in accordance with Clause 19.1 to Clause 19.4 in the Section I - Instructions To Tenderers	
G	PERFORMANCE SECURITY A bond of 5% of the contract sum will be required in accordance with Clause 5.2 in the Section Viii - General Conditions of Contract (GCC) Note that no payments on account of works executed will be made to the Contractor until he has submitted the Performance Bond to the Project Manager, duly stamped signed and sealed by an approved bank or insurance company	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	INSURANCE The Contractor shall insure as required in Condition No. 18 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 Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall, if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection. TENDER DOCUMENTS B Tender documents are as listed in Clause 11.1 of Section I-Instruction to Tenderers of the Tender Document. VALUE ADDED TAX C The Contractor's attention is drawn to V.A.T PUBLIC NOTICE NO. 6 of 5th August, 1993 regarding the Finance Bill 1993 which expanded the V.A.T base to cover construction services amongst other items. The Contractor shall familiarize himself with the said notice and allow in all his Bills of Quantities rates for the net tax. (i.e. less input tax where applicable) as required by law. The tenderer is advised that in accordance with Government Public Notice No.35 &36 dated 11th September 2003, operational from 1st October 2003, V.A.T will be deducted against the contract sum at the prevailing rate by the Employer and remitted directly to the Commissioner of V.A.T through all interim certificates. It should however be noted that this is not additional tax but a new mode of payment for V.A.T, any excess payment will be refundable once the Contractor has submitted monthly returns to the Commissioner of V.A.T who will do the refunds when satisfied that the V.A.T regulations have been complied with. FORM OF CONTRACT D The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works (2021 Revised edition) included herein under SECTION X - CONTRACT FORMS CONDITIONS OF CONTRACT E These are specified in the SECTION VIII and SECTION IX of this Tender Document. If the Contractor considers that compliance with any of the Conditions of Contract involves any expenses, he shall distribute the cost among the rates for the various items in the Bills of Quantities. No claim shall be allowed arising from the Contractor's compliance with any of the Conditions of Contract.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	<u>COLLECTION</u>	
	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	
	TOTAL CARRIED TO GRAND SUMMARY	

BILL NO.2
GENERAL PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT
	<u>GENERAL PRELIMINARIES</u>	
A	PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification. The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.	
B	ABBREVIATIONS 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 Millimetre Kg. Shall mean Kilogramme 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., England. Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs. m.s. Shall mean measured separately. a.b.d Shall mean as before described.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	SUFFICIENCY OF TENDER The contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices stated in the priced Bills of Quantities. Rates and prices quoted shall cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works	
B	RECORDS The Contractor shall ensure proper records are kept and maintained for : Daily Reports on Personnel and Machinery; tracked programme; site photographs in digital camera; weather charts/reports; site instruction book and query book. a digital camera shall be provided for taking progress photos	
C	PLANT, TOOLS AND VEHICLES Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.	
D	TRANSPORT. Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	MATERIALS AND WORKMANSHIP. All work is to be carried out in accordance with the Ministry of Works General Specifications for Building Works, 1976 Edition together with any amendments thereto. All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials. B SIGN FOR MATERIALS SUPPLIED. The Contractor will be required to sign a receipt for all articles and materials supplied by the CLIENT at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the CLIENT 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 C STORAGE OF MATERIALS The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to 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.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	SAMPLES The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Public Works. The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER. The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work. B GOVERNMENT ACTS REGARDING WORK Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople. The Contractor must make himself fully acquainted with current Acts and Regulations including Police Regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the information regarding all such regulations and/or restrictions which may affect the organization of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	PUBLIC AND PRIVATE ROADS. The contractor shall maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the Project Manager.	
B	EXISTING PROPERTY. The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the Project Manager.	
C	OCUPATIONAL HEALTH AND SAFETY MEASURES The Project Manager expects the contractor to adhere to strict safety measures. In this regard the contractor should ensure that all his workers, the consultants and his sub-contractors workmen are wearing Personal Protective Equipment (PPE) before commencement of any work where applicable including overalls with the company name clearly printed on the back each with clearly marked Identification Numbers stitched or imprinted on. The Contractor shall allow for providing all watching, lighting, barriers, signs, covering open trenches and protection of the works, including Sub-Contract works, as may be necessary for the safety of the works and for the protection of the public and his own and Sub- Contractors' employees. He shall also ensure provision of first aid staff, access to ambulance services at all worksites and arrangement to access local hospital/dispensary with qualified medical staff. The Project Manager expects full compliance to this regulation and no excuses will be entertained for non-compliance.	
D	OCUPATIONAL HEALTH AND SAFETY PERSONEL The contractor shall allow for Occupational Health and Safety personnel as directed and afford every reasonable facility for the performance of their duties.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	ACCESS TO SITE AND TEMPORARY ROADS. Means of access to the Site shall be agreed with the CLIENT prior to commencement of the work and 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	
B	AREA TO BE OCCUPIED BY THE CONTRACTOR The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER	
B	OFFICE FOR THE PROJECT MANAGER The contractor shall , if so instructed, supply, maintain, service, clean and light a fully furnished, suitable office, having an approximate floor area of not less than 50 sqm for exclusive use of the project. The office shall have a sample room, a toilet and bathroom, kitchen of suitable dimensions with clean running water and electricity connected to the approval of the Project Manager. The Contractor shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape. On completion of the contract, the contents of the office specified above shall revert to the Client. The contractor shall be responsible throughout the contract period for provision of insurance cover, maintenance of the office equipment and furniture, providing all necessary staff and providing security and garbage disposal facilities	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	LIGHTING AND POWER The contractor shall provide at his own risk and cost all temporary artificial lighting and power for use on the works including all sub-contractors and specialists' requirements and including all temporary connections, wiring, fittings etc. and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith.	
B	WATER FOR THE WORKS The Contractor shall provide at his own risk and cost all necessary water required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER. The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. The contractor is to provide clean drinking water at the construction site for his workers at all times. All water shall be fresh, clean and pure, free from earthly vegetable or organic matter, acid or alkaline substance in solution or suspension.	
C	SANITATION OF THE WORKS 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 He may however be allowed use of the existing sanitation facilities but shall be responsible for the proper hygienic maintenance and any damage whatsoever. No guarantees are however given regarding the adequacy of the existing services. The Contractor will be required to pay all conservancy charges and shall ensure clean daily maintenance and disinfecting of the latrines, and not less than once per week, the whole area shall be sprayed with disinfectant and insecticides and any temporary drains shall be removed and all works and surfaces disturbed made good and then the whole area disinfected and left clean and free from pollution to the satisfaction of the Architect and local authorities.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	SUPERVISION AND WORKING HOURS The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.	
B	PROVISIONAL SUMS. The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement. Such sums are net and no addition shall be made to them for profit.	
C	PRIME COST (OR P.C.) SUMS. The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement . Persons or firms nominated by the Project Manager to execute work or to provide and fix materials or goods are described herein as Nominated Sub- Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.	
D	PROGRESS CHART. The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	ADJUSTMENT OF P.C. SUMS. In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not prorata 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. ADJUSTMENT OF PROVISIONAL SUMS. B 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 MANAGER's order added to the Contract Sum. Such work shall be valued , but should any part of the work be executed by a Nominated Sub-Contractor or the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added. NOMINATED SUB-CONTRACTORS C When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts 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".	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	DIRECT CONTRACTS A Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum in the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed. ATTENDANCE UPON OTHER TRADESMEN, ETC. B The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills. PROVISIONAL WORK C 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 reinstatement at his own expense.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	ALTERATIONS TO BILLS, PRICING, ETC. A 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 priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted. BLASTING OPERATIONS B Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives. MATERIALS ARISING FROM EXCAVATIONS C Materials of any kind obtained from the excavations shall be the property of the Client. 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.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	PROTECTION OF THE WORKS. Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Client.	
B	WORKS TO BE DELIVERED UP CLEAN Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER	
C	GENERAL SPECIFICATION. For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
A	TRAINING LEVY The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50,000.00 in value.	
B	MATERIALS ON SITE All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.	
C	HOARDING The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100 x 50 mm timber posts firmly secured at 1800 mm 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.	
D	CONTRACTOR'S SUPERINTENDENCE/SITE AGENT The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT
	<u>COLLECTION</u>	
	Brought Forward From Page GP/13	
	Brought Forward From Page GP/14	
	Brought Forward From Page GP/15	
	Brought Forward From Page GP/16	
	Brought Forward From Page GP/17	
	Brought Forward From Page GP/18	
	Brought Forward From Page GP/19	
	Brought Forward From Page GP/20	
	Brought Forward From Page GP/21	
	Brought Forward From Page GP/22	
	Brought Forward From Page GP/23	
	Brought Forward From Page GP/24	
	Brought Forward From Page GP/25	
	TOTAL CARRIED TO GRAND SUMMARY	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>OPD BLOCK BUILDERS WORKS</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURE (All Provisional)</u>				
	<u>Excavation and Earthworks</u>				
	Note: Include Plunking and strutting and keeping excavation free of water in earth work rates				
A.	Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed	518	SM		
B.	Excavate oversite averaging 300mm deep and cart away	518	SM		
C.	Excavate foundation trench not exceeding 1.50 metres deep starting from reduced level	158	CM		
D.	Excavate for column bases ditto	60	CM		
E.	Extra over for excavating in rock irrespective of depth	60	CM		
F.	Return fill and ram selected excavated materials around foundations	158	CM		
G.	Load and cart away excess excavations as directed	158	CM		
	<u>Filling</u>				
H	300mm thick hand packed hardcore filling rolled and compacted in layers not exceeding 150mm thick	518	SM		
I	50mm thick murrum blinding	518	SM		
J	Treat surface of hardcore with "Termidor" insecticide to manufacturers specification and provide 10 years guarantee certificate	518	SM		
K	1000 gauge polythene sheet damp proof membrane on blinded hardcore	518	SM		
	Carried Forward				

	Brought Forward				
	<u>Concrete Works</u>				
	<u>Mass concrete class 15/20</u>				
A.	50mm blinding strip foundation and column bases	60	SM		
	<u>Vibrated reinforced concrete class 20/20 in:-</u>				
B.	150mm thick floor slab	518	SM		
C.	Column and column bases	10	CM		
D.	Strip foundation	20	CM		
	<u>High tensile steel reinforcement bars to BS 4461</u>				
E.	12mm diameter	354	KG		
F.	10mm diameter	289	KG		
G.	8mm diameter	250	KG		
	<u>Fabric mesh</u>				
H.	Fabric mesh Ref. No. A142 (measured net) (No allowance for laps)	518	SM		
	<u>Sawn formwork to:</u>				
I.	Sides of strip foundation	40	SM		
J.	Sides of columns, column bases	25	SM		
K.	Edges of slab between 75mm and 150mm high	204	LM		
	<u>Natural stone wall bedded and jointed in cement/sand (1:3) mortar reinforced with 40mm hoop iron every alternate course</u>				
L.	200mm thick	400	SM		
	<u>Three ply hessian based bituminous felt horizontal damp proof course to BS 743, Type A weighing 3.8kg/m² bedded on</u>				
M.	<u>cement/sand (1:3) mortar</u> 200mm wide	204	LM		
	<u>PCC SLAB PAVING</u>				
N.	50mm thick pcc slab paving on and including 50mm thick sand bed and 300mm thick hardcore	245	SM		
O.	300mm wide U-shaped open drain sloped appropriately and jointed in mortar	204	LM		
	<u>ELEMENT NO. 1</u>	<u>TOTAL CARRIED</u>			
	SUBSTRUCTURE	TO SUMMARY			

	<u>ELEMENT NO. 2</u>				
	<u>SUPERSTRUCTURE CONCRETE</u>				
	<u>Vibrated reinforced concrete class 20/20 in:</u>				
A.	Columns	6	CM		
B.	Ring beam	42	CM		
	<u>High tensile steel reinforcement to BS 4461</u>				
C	12mm Diameter	350	KG		
D	8mm Diameter	300	KG		
	<u>Sawn formwork to:</u>				
E	Sides of columns	60	SM		
F	Sides and soffits of ring beams	180	SM		
	<u>ELEMENT NO. 2</u> <u>TOTAL CARRIED</u>				
	<u>SUPERSTRUCTURE CONCRETE</u> <u>TO SUMMARY</u>				

[illegible]

	<u>ELEMENT NO. 4</u>				
	<u>ROOF</u>				
	<u>Roof Covering</u>				
A.	Box profile GI sheeting gauge 28 resincot on timber framework	778	SM		
B.	Extra over for ridge and hip cap to match	99	LM		
C	Valley gutter 300mm girth	56	LM		
	Supply and fix sawn celcured 2 nd grade cypress with and <u>including nailing or bolting, drilling for bolts</u>				
D	150 x 50mm rafters packing pieces	192	LM		
E	150 x 50mm hip rafters	219	LM		
F	150 x 50mm valley rafters	96	LM		
G	200 x 38mm ridge board	107	LM		
H	100 x 50mm wall plate bolted at 1000mm centres	272	LM		
I	75 x 50mm purlins	667	LM		
	<u>The following trusses in sawn celcured 2nd grade cypress with and including nailing/bolting, drilling holes</u>				
J	150 x 50mm rafters	677	LM		
K	150 x 50mm tie beam	552	LM		
L	100 x 50mm struts and ties	687	LM		
	<u>Eaves Finishes</u>				
	<u>Wrot celcured prime grade cypress in:</u>				
M	250 x 38mm fascia	272	LM		
	Carried Forward				

[illegible]

	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>EXTERNAL DOORS</u>				
A	Glazed 1200x 2500mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No. heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1500x150mm, apply red oxide primer before fixing	1	NO		
B	Ditto single door size 900 x 2,500	4	NO		
	<u>Glazing</u>				
B	4mm clear sheet glass and glazing with putty in panes of various sizes	5	SM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
C	General surfaces internally	13	SM		
D	Ditto externally	13	SM		
	<u>Supply and fix the following ironmongery with matching screws as Union Catalogue or other equal and approved</u>				
E	5-Lever mortice dead lock cat No. 2101 complete with approved lock furniture	5	NO		
F	38mm diameter x 59mm deep rubber door stop ref No. 8400	40	NO		
G	100mm pairs stainless steel double action spring hinges	24	Prs		
H	100mm pairs brass butt hinges	20	Prs		
I	Three lever rebated mortice lock complete with furniture	40	NO		
	Carried Forward				

	Brought Forward				
	<u>INTERNAL DOORS</u>				
	<u>Flush doors</u>				
A	45 x 1200x 2500mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	2	NO		
B	45 x 900 x 2500mm high solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hidges	20	NO		
C	45 x 800 x 2100mm high solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hidges	3	NO		
	<u>Wrot Mahogany to door frames and finishings</u>				
D	150 x 50mm frame with 3 labours	125	LM		
E	150 x 50mm transome with 4 labours	25	LM		
F	15 x 40mm moulded architrave	125	LM		
G	25mm diameter moulded quadrant	125	LM		
H	4mm thick clear sheet glass and glazing with beads in panes between 0.15m and 0.5sm	20	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
I	Surfaces not exceeding 100mm girth	145	LM		
J	Surfaces exceeding 100mm but not exceeding 200mm girth	150	LM		
K	General surfaces	88	SM		
L	3 lever mortice lock,with polished brass lever furniture and including all other necessary furniture.	32	NO		
M	Aluminium kicking plate,1150×500x2mmmm fixed to flush doors	25	NO		
N	Aluminium kicking plate,850×500x2mm fixed to flush doors	25	NO		
O	Aluminium kicking plate,1750×500x2mm fixed to flush doors	25	NO		
P	Overhead door closer ; cat. No. 8823	6	NO		
Q	Floor spring double action Ref. Yale 913.02 90° S.O	12	NO		
	ELEMENT NO. 5	TOTAL CARRIED			
	DOORS	TO SUMMARY			

	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<u>The following in purpose made steel casement windows in heavy duty 'T' and 'Z' section frame including mullions, transomes in-built mosquito proof gauze permanent vents hood with at top, high quality heavy duty polished brass ironmongery to M/s Kensmetal Ltd or other equal and approved fasteners, window stays, fixing lags, and apply primer before fixing (small panel windows) with intergrated burglar proofing in tubes welded horizontally and vertically in line with opening light casement, transomes and mullions (m/s)</u>				
A.	2700 x 1600mm high comprising side hung, top hung and fixed lights to detail	1	NO		
B.	1800 x 1600mm high ditto	1	NO		
C	1500 x 1600mm high ditto	32	NO		
C	1500 x 1300mm high ditto	1	NO		
D	600 x 1000mm high ditto	3	NO		
	<u>Burglar proofing</u>				
E	Mild steel grille framed with 25x25x3mm thick RHS section including assembly and fixing to opening cutting and pinning lugs to concrete and bedding frame in cement and sand mortar (1:4)	63	SM		
	<u>Glazing</u>				
F	4mm clear sheet glass and glazing with putty in panes of various sizes	63	SM		
G	Ditto obscure glass pane	12	SM		
	<u>Wrot prime grade cypress</u>				
H	150 x 150mm pelmet comprising 125 x 25mm thick top, 125 x 25mm fascia with 2No. labours, 40 x 40mm wrot bearers, 2No. brass curtain rails, rollers, stoppers, 125 x 125 x 25mm thick end brackets to detail	204	LM		
I	125 x 25mm window board	32	LM		
J	25mm quadrant	32	LM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
K	General surfaces internally	63	SM		
L	Ditto externally	63	SM		
M	Burglar proofing	63	SM		
	<u>Prime back of wood before fixing</u>				
O	Surfaces between 100 and 200mm girth	655	LM		
P	Surfaces not exceeding 100mm girth	500	LM		
	<u>Knot, prime, stop and apply two undercoats and one gloss oil coats finishing to wood</u>				
Q	General surface of pelmet	35	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
R	Surfaces not exceeding 100mm girth	500	LM		
S	Surfaces exceeding 100mm but not exceeding 200mm girth	655	LM		
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	TOTAL CARRIED TO SUMMARY				

	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
A.	12mm cement/sand (1:4) render to columns and ringbeams	60	SM		
B.	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows and doors	305	LM		
C.	12mm thick cement/sand render to plinth	122	SM		
D	Key pointing in flush vertical and recessed horizontal joints	500	SM		
E	Eaves boarding; in 20mm thick Upvc boarding	122	SM		
F	50 x 50mm cypress bandering	605	LM		
G	75 x 50mm moulded cypress cornice	408	LM		
	<u>Internal Wall Finishes</u>				
	<u>Cement, lime, sand plaster</u>				
H	12mm cement/lime/sand (1:1:6) fine plaster to walls and beams internally	1020	SM		
I	20mm cement/sand (1:4) render to receive ceramic tiles	70	SM		
	<u>Glazed wall tiles to manufacturer</u>				
J	250 x 250x6mm thick patterned glazed wall tiles fixed with adhesive to rendered surfaces (m/s) with and including rounded plastic edge tiles (2100mm high)	70	SM		
K	Extra over for 75 mm wide decorative band	60	LM		
	<u>Floor Finishes</u>				
	<u>Terrazzo paving</u>				
L	38m thick (24mm backing & 14mm thick terrazzo layer)	518	SM		
M	100 x 20mm skirting	204	LM		
N	12mm thick terrazzo floor tile	518	SM		
	<u>Ceiling</u>				
	<u>Drywall ceiling</u>				
O	12mm thick cement gypsum board ceiling complete with studd works	90	SM		
	<u>Acoustic insulation</u>				
P	600 x 600mm acoustic suspended ceiling complete with studd works	428	SM		
	<u>Drywall ceiling</u>				
Q	100 x 25mm moulded cornice	250	LM		
	<u>Trap door</u>				
R	600 x 450mm chipboard trap door including 50 x 50mm frame,aluminium joists	2	NO		
	<u>ELEMENT NO. 7</u> <u>TOTAL CARRIED</u>				
	<u>FINISHES</u> <u>TO SUMMARY</u>				

	<u>ELEMENT NO. 8</u>				
	<u>PAINTING AND DECORATING</u>				
	<u>Externally</u>				
	<u>Prepare and apply undercoats and three coats plastic emulsion paint to:-</u>				
A.	Plastered external columns,ringbeams	60	SM		
B.	Plastered niches and reveals not exceeding 300mm wide	305	LM		
	<u>Internally</u>				
	<u>Prepare and apply three coats silk vinyl paint to</u>				
C.	Plastered walls and concrete surfaces	1020	SM		
	<u>Prepare and apply three coats plastic emulsion paint to:-</u>				
D.	Drywall suspended ceiling	90	SM		
	<u>Prime back of wood before fixing</u>				
E.	Surfaces not exceeding 100mm girth (cornice)	250	LM		
	<u>Prepare and apply primer two undercoats and one gloss oil finishing coat to wood</u>				
F	Surfaces not exceeding 300mm girth (cornice)	250	LM		
	<u>Prepare and apply two coats black bituminous paint to:-</u>				
G	Rendered plinth externally	35	SM		
	<u>ELEMENT NO. 8</u> <u>TOTAL CARRIED</u>				
	<u>PAINTING AND</u> <u>TO SUMMARY</u>				
	<u>DECORATING</u>				

	<u>ELEMENT NO. 9</u>				
	<u>FITTINGS AND FIXTURES</u>				
A	Allow a provisional sum of Ksh 400,000 construction including MDF board timber door with malfa hidges, granitto tiles top finishes	1	Sum		400,000.00
A	Allow a provisional sum of Ksh 200,000 for lockers	1	Sum		200,000.00
B	225x25mm thick MDF shelves with approved beading screwed to steel angles (m/s)	200	LM		
C	Standard pressed steel shelf brackets to approval	40	NO		
D	Supply and fix steel I-beams size 200x100mm at the theatres to suspend the theatre lights	10	LM		
	<u>ELEMENT NO.9</u> <u>TOTAL CARRIED</u>				
	<u>FITTINGS AND</u> <u>TO SUMMARY</u>				
	<u>FIXTURES</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 10				
	<u>Builder's Work</u>				
	The contractor shall here allow all builder's work in connection with Electrical and Mechanical Engineering Installation				
	The builders work shall include but not limited to				
	a) Chases in wall, concrete work, and make good				
	b) Forming, making or leaving holes, etc in masonry concrete or wood work				
	c) Making good all disturbed area				
	d) Excavations refill and disposal of spoil				
	<u>Electrical Work</u>				
A.	Allow for all builder's work in connection with Electrical Engineering Installations	1	Item		
	<u>Mechanical Engineering</u>				
B.	Allow for all builder's work in connection with Mechanical Engineering Installations	1	Item		
	ELEMENT NO. 10				
	BUILDER'S WORK				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY OF ELEMENTS				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE CONCRETE				
3	WALLING				
4	ROOF				
5	DOORS				
6	WINDOWS				
7	FINISHES				
8	PAINTING AND DECORATING				
9	FITTINGS AND FIXTURES				
10	BUILDER'S WORK				
	TOTAL CARRIED TO SUMMARY				
	OPD				

SANITARY FITTINGS					
Item	Description	Unit	Qty	Rate	Amount
	Supply, deliver, install and fix the following				
	sanitary fittings including all materials and				
	jointing to supply, waste/soil and overflow				
	pipes.Twyfords Ltd 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				
	Water Closet				
A	Squatting water closet suite in vitreous china				
	comprising of water closet bowl with top plate and				
	integral foot threads, S-trap connector, 9 litres high				
	cistern and fittings and pull chain including siphon,				
	15mm dia side inlet ball valve, 20mm dia side				
	overflow, plastic flush pipe, inlet connector and	No	2		
	cistern supports. All to be as "Twyfords Oriental" or				
	approved equivalent.				
	Medical Wash Hand Basin				
C	Counter top Twyfords "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	No	9		
	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.				
	Soap Dish				
D	Twyfords semi-recessed built in soap tray in vitreous	No	9		
	china size: 305 x 150mm				
	Robe hook				
E	Robe hook in vitreous china and in white colour				
	mounted unto a concealed screw to wall wedges, to	No	9		
	be as Twyfords OC 6858 1998 or approved				
	equivalent.				
	Towel rail				
F	Twyfords Bathrooms Ltd Ref. No. PB 0363 CP	No	9		
	chrome plated screw to wall Towel Rail 650mm long				
	complete with screws.				
Sub-total carried forward to collection page					
P1					

Item	Description	Unit	Qty		
	Toilet roll holder				
	Toilet roll holder in vitreous china to BS 3402 in white colour of size 165x165mm and recessed into				
A	wall. Toilet roll holder to be as Twyford's 'SEMI RECESSED & ORNAMENTAL' accessories Ref. No. VC 9808 WH	No	2		
	Wash hand basin				
	Wash hand basin size 510 x 420mm with one tap holes and chain stay hole, 32mm diameter chrome plated pop up chain waste, concealed wall brackets, chrome plated single tap hole basin mixer as Cobra				
B	and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. The wash hand basin to be as Twyford's 'Sola 510' or equal and approved.	No	16		
	Shower fitting				
	Concealed shower mixer for hot and cold water consisting of 15mm chrome plated riser pipe to connect the water to a swivel/ adjustable shower rose, chrome plated handles and stop corks and other				
C	necessary fittings & accessories. All to be as Bricon/aztec or equal and approved.	No	2		
	Baby bath				
	Vitreous china baby bath of size 510 x 650mm with two tap holes complete with supporting front legs and bearers in stainless steel, 32mm diameter waste fitting with removable overflow tube, lever operated mixer tap and chrome plated handles. All as				
D	Twyford's baby bath or approved equivalent.	No	1		
	Hand drier				
	Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m ³ /min) and to be of size 270x264x143mm deep It shall have a				
E	noise level below 72.5 dBA at 1.5m. It shall be as Mediclinic or approved equivalent.	No	9		
(P2)Sub-total carried forward to collection page					

	Soap Dispenser				
A	Soap Dispenser, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, lock and key complete with initial fill of soap gel. The soap dispenser to be as ZALPON'S MARK 7 model, size 125 x 100 x 290mm high or approved equivalent	No	9		
	Kitchen Sink				
B	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	1		
	Dhobi Sink				
C	Heavy Duty stainless steel dhobi sink of size 675 x 485 x 300 mm deep in 16 SWG as manufactured by ASL 131 or equivalent suitable for wall mounting with 1 No 15 mm diameter chrome plated back inlet bib tap as Cobra Ref 107 CP, 40 mm diameter chrome plated bottle trap and chain waste fitting and plug.	No	1		
	Sterilization Sink				
D	Hospital sterilization sink in stainless steel, size 600 x 600mm x 450mm deep with two tap holes, stainless steel cantilever brackets(pair) , front leg supports in stainless steel and unslotted chain waste fitting complete with lever action mixer tap for hot and cold water. All as Twyford's Hospital Sink or approved equivalent.	No	1		
Sub-total carried forward to collection page					
P3					

	Mirror				
A	Mirror of size 1,200 x 600x 6mm thick, plugged and				
	screwed to wall with 6No. chrome plated dome				
	capped screws. The mirror shall rest against a layer of	No	9		
	5mm thick foam.				
B	Mirror of size 600 x 600x 6mm thick, plugged and				
	screwed to wall with 6No. chrome plated dome				
	capped screws. The mirror shall rest against a layer of				
	5mm thick foam.	No	0		
	Scrub-Up				
C	Twyford Scrub-up Trough 2500mm long with Left				
	hand outlet Cat No. SS9122SS Complete with 3No.				
	wall mounted Lever action mixer taps Cat No.				
	SF1099CP 11/2Chrome plated Waste fitting and as				
	trap	No	1		
	Flexible Tubing				
D	15mm diameter x 300mm long chrome plated	No	9		
	flexible connectors.				
	Angle valve				
E	Chrome plated Angle shut-off valve as Cobra or	No	60		
	approved equivalent				
	Sluice Unit				
F	Twyford's "Grafton B.P.S." hopper cat.no.				
	FC4076WH loose-trap FC44612WH complete with				
	Vitreous china high level cistern 7.5 Litre capacity				
	with valveless fittings and reversible chain pull				
	CX7610WH, cistern supporting brackets				
	SR1300XX stainless steel flushpipe with spreader and				
	clips SS6020SS Combine bedpan and urinal bottle jet				
	with 1/2" lever handle taps, SF6504CP legs and				
	bearers for hopper SR3053XX sinks 760mm x				
	455mm FC1350WH chain and waste 1 1/2" chrome				
	plated WF4338CP waste pipe for the hopper				
	WF9685WH legs and bearers for sink SR3043XX				
	drain with anti-drip stip FC9684WH legs and bearers				
	for drain SR3052XX chrome plated extended bib				
	tap 1/2" SF5204CP Chrome plated Lever action	No	2		
	mixer tap flexible hose and handspray SF7053CP.				
	(P4) Sub-total carried forward to collection page				

COLLECTION PAGE					
Sanitary Fittings					
1	Sub-total brought down from page P-1				
2	Sub-total brought down from page P-2				
3	Sub-total brought down from page P-3				
4	Sub-total brought down from page P-4				
Total for Sanitary Fittings Carried Forward to Summary Page					

Item	Description	Unit	Qty	Rate	
	INTERNAL PLUMBING WORKS- COLD				
	WATER (ALL PROVISIONAL)				
	Supply, deliver and install pipes, tubing and fittings as described and shown on the drawings.				
	The pipes shall be PN 25 PPR pipes where exposed to adverse weather condition and all conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures.				
	PPR Pipes				
A	20mm diameter pipework	Lm	120		
B	25mm diameter pipework	Lm	80		
C	32mm diameter pipework	Lm	65		
D	40mm diameter pipework	Lm	75		
E	50mm diameter pipework	Lm	85		
	Bends				
F	20mm diameter bends	No.	100		
G	25mm diameter bends	No.	35		
H	32mm diameter bends	No.	20		
Sub-total carried forward to collection page					
P6					

A	40mm diameter bends	No.	20		
B	50mm diameter bends	No.	10		
	Tees				
C	25mm diameter equal tee	No.	40		
D	32mm diameter equal tee	No.	25		
E	40mm diameter equal tee	No.	60		
F	50mm diameter equal tee	No.	30		
	Reducers				
G	50 x 40mm diameter reducer	No.	20		
H	50 x 32mm diameter reducer	No.	25		
I	50 x 25mm diameter reducer	No.	25		
J	40 x 32mm diameter reducer	No.	50		
K	40 x 25mm diameter reducer	No.	30		
L	40 x 20mm diameter reducer	No.	20		
M	32 x 25mm diameter reducer	No.	22		
N	32 x 20mm diameter reducer	No.	24		
O	25 x 20mm diameter reducer	No.	50		
	Male/Female Threaded Brass Adapters				
P	32mm threaded brass coupling	No.	35		
Q	25mm threaded brass coupling	No.	37		
R	20mm threaded brass coupling	No.	50		
Sub-total carried forward to collection page					
P7					

	Valves				
A	20mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 PN 20 for series B rating, with wheel and head joints to steel tubing and complete with round male threaded transition fittings. The gate valve to be as PEGLER or approved equivalent.	No.	4		
B	25mm ditto	No.	2		
C	40mm ditto	No.	4		
D	50mm ditto	No.	3		
	Unions				
E	25mm diameter pipe union	No.	3		
F	40mm diameter pipe union	No.	10		
G	50mm diameter pipe union	No.	7		
	Water storage tank in the roof space				
H	Supply and install rectangular loft water storage tank of capacity 920 made from plastic and of dimension 1270x1270x580 mm Rotor or approved equivalent. The tank shall be complete with inlet, outlet, overflow and drain connection. It should have a 50mm diameter medium pressure ball valve with silencer pipe, bronze lever and copper float all as "Glenfield" or approved equivalent. The tank shall be firmly supported on the roof space.	No.	6		
Sub-total carried forward to collection page					
	P8				
	Internal plumbing				
1	Sub-total brought down from page P-6				
2	Sub-total brought down from page P-7				
3	Sub-total brought down from page P-8				
Total for Internal Plumbing Carried Forward to Summary Page		-			

Item	Description	Unit	Qty	Rate	
	(ALL PROVISIONAL)				
	FOUL WATER INTERNAL DRAINAGE				
	Supply ,deliver and install the following UPVC,				
	MUPVC, soil and waste systems respectively to B.S				
	5255 with fittings fixed to Manufactures Printed				
	instructions and manufactured by reputable				
	manufacturers. Tenderers must allow in their				
	pipework prices for all the couplings, clippings,				
	connectors, joints etc. as required in the running				
	lengths of pipework and also where necessary, for				
	pipe fixing clips, holder bats plugged and screwed for				
	the proper and satisfactory functioning of the system.				
	MuPVC and uPVC Waste and Soil pipework				
A	100mm diameter heavy gauge grey mUPVC pipe	Lm	150		
B	50mm diameter waste pipe	Lm	100		
C	40mm diameter waste pipe	Lm	120		
	Bends				
D	100mm diameter long radius bend	No.	15		
E	100mm diameter short radius bend	No.	50		
F	100mm diameter sweep bend	No.	35		
G	50mm diameter bend	No.	50		
H	40mm diameter 90° bend	No.	80		
	Tees				
I	100mm diameter sweep tee	No.	40		
J	50mm diameter sweep tee	No.	25		
K	40mm diameter sweep tee	No.	30		
	Access Caps				
L	100mm diameter access cap	No.	25		
(P10) Sub-total carried forward to collection page					

Item	Description	Unit	Qty		
A	50mm diameter access cap	No.	20		
B	40mm diameter access cap	No.	30		
	Boss Connectors				
C	100 x 50mm diameter boss connector	No.	32		
D	100 x 40mm diameter boss connector	No.	15		
	WC Connectors				
E	100mm diameter WC connector	No.	10		
	Traps				
F	100 x 50mm diameter floor trap and grating	No.	12		
	Inspection Chamber				
G	Man-hole or inspection chamber size 600 x 450 mm				
	by approximately 750mm deep using 200mm thick				
	base (concrete class N15) with 250mm thick				
	benching including forming drain channels, and				
	200mm thick solid concrete block walling, including				
	15mm internal plaster and top slab/screed, including				
	pit digging, backfilling, carting away surplus and	No.	15		
	making good.				
	Man-hole frame				
H	Man-hole frame (light duty) in cast iron size 0.6 x				
	0.45m with recessed cover with concrete infill,	No.	15		
	finished to approval.				
	Weathering Slates and Vent Cows				
I	100mm diameter weathering slate and apron.	No.	5		
J	100mm diameter vent cowl	No.	5		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty		
A	Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.	1	ITEM		
B	Construct water tank masonry base diameter 2500mm and 300mm above general ground level. The base should have 200mm thick foundation footing, 200mm thick foundation wall including along diameter, 300mm thick hardcore layer and 150mm thick floor slab reinforced with y8 at 200mm centres both ways.	1	ITEM		
C	10,000 litres plastic tank UPVC cylindrical as roto or equal and approved.	1	NO		
D	Provide a sum for construction of the Standard Placenta Pit	1	NO		
E	Provide a Sum for the Construction of Septic Tank with a capacity of 22,500 litres for aprox. 100 people	1	NO		
F	Provide a sum for the Construction of soak Pit	1	NO		
COLLECTION PAGE					
Internal drainage					
1	Sub-total brought down from page P-10				
2	Sub-total brought down from page P-11				
3	Sub-total brought down from above				
Total for foul water Internal Plumbing Carried Forward to Summary Page					

	SUMMARY PAGE				
ITEM	DESCRIPTION				
1	Total for Sanitary Fittings Brought Down				
2	Total for Internal Plumbing Brought Down				
3	Total for Foul Water Drainage Brought Down				
	TOTAL FOR PLUMBING AND DRAINAGE CARRIED TO SUMMARY SUMMARY				

	OPD SUMMARY PAGE				
1	Total For OPD Builder's Works				
2	Total For OPD Plumbing Works				
3	Allow a PC sum of Ksh 1,500,000 OPD Electrical Works & ICS Data Conduits				1,500,000.00
4	Allow a PC sum of Ksh 200,000 for project management				200,000.00
	TOTAL FOR OPD CARRIED TO GRAND SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>CASUALTY BUILDERS WORKS</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURE (All Provisional)</u>				
	<u>Excavation and Earthworks</u>				
	Note: Include Plunking and strutting and keeping excavation free of water in earth work rates				
A.	Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed	363	SM		
B.	Excavate oversite averaging 300mm deep and cart away	363	SM		
C.	Excavate foundation trench not exceeding 1.50 metres deep starting from reduced level	122	CM		
D.	Excavate for column bases ditto	48	CM		
E.	Extra over for excavating in rock irrespective of depth	30	CM		
F.	Return fill and ram selected excavated materials around foundations	122	CM		
G.	Load and cart away excess excavations as directed	122	CM		
	<u>Filling</u>				
H	300mm thick hand packed hardcore filling rolled and compacted in layers not exceeding 150mm thick	363	SM		
I	50mm thick murrum blinding	363	SM		
J	Treat surface of hardcore with "Termidor" insecticide to manufacturers specification and provide 10 years guarantee certificate	363	SM		
K	1000 gauge polythene sheet damp proof membrane on blinded hardcore	363	SM		
	Carried Forward				

	Brought Forward				
	<u>Concrete Works</u>				
	<u>Mass concrete class 15/20</u>				
A.	50mm blinding strip foundation and column bases	75	SM		
	<u>Vibrated reinforced concrete class 20/20 in:-</u>				
B.	150mm thick floor slab	363	SM		
C.	Column and column bases	5	CM		
D.	Strip foundation	15	CM		
	<u>High tensile steel reinforcement bars to BS 4461</u>				
E.	12mm diameter	254	KG		
F.	10mm diameter	230	KG		
G.	8mm diameter	200	KG		
	<u>Fabric mesh</u>				
H.	Fabric mesh Ref. No. A142 (measured net) (No allowance for laps)	363	SM		
	<u>Sawn formwork to:</u>				
I.	Sides of strip foundation	40	SM		
J.	Sides of columns, column bases	25	SM		
K.	Edges of slab between 75mm and 150mm high	204	LM		
	<u>Natural stone wall bedded and jointed in cement/sand (1:3) mortar reinforced with 40mm hoop iron every alternate course</u>				
L.	200mm thick	331	SM		
	<u>Three ply hessian based bituminous felt horizontal damp proof course to BS 743, Type A weighing 3.8kg/m² bedded on</u>				
M.	<u>cement/sand (1:3) mortar</u> 200mm wide	204	LM		
	<u>PCC SLAB PAVING</u>				
N.	50mm thick pcc slab paving on and including 50mm thick sand bed and 300mm thick hardcore	245	SM		
O.	300mm wide U-shaped open drain sloped appropriately and jointed in mortar	204	LM		
	<u>ELEMENT NO. 1</u>	<u>TOTAL CARRIED</u>			
	SUBSTRUCTURE	TO SUMMARY			

	<u>ELEMENT NO. 2</u>				
	<u>SUPERSTRUCTURE CONCRETE</u>				
	<u>Vibrated reinforced concrete class 20/20 in:</u>				
A.	Columns	6	CM		
B.	Ring beam	42	CM		
	<u>High tensile steel reinforcement to BS 4461</u>				
C	12mm Diameter	350	KG		
D	8mm Diameter	300	KG		
	<u>Sawn formwork to:</u>				
E	Sides of columns	22	SM		
F	Sides and soffits of ring beams	80	SM		
	<u>ELEMENT NO. 2</u> <u>TOTAL CARRIED</u>				
	<u>SUPERSTRUCTURE CONCRETE</u> <u>TO SUMMARY</u>				

	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<i>Fair dressed natural stone wall bedded and jointed in cement/sand (1:4) mortar (12mm joints) reinforced with 40mm hoop iron every alternate course</i>				
	<u>External walls</u>				
A.	200mm thick	490	SM		
B	Extra over for key pointing in flush vertical and recessed horizontal joints	245	SM		
C	100mm thick x 200mm high eaves closing	204	LM		
	<u>Internal walls</u>				
D	150mm thick	120	SM		
	<u>Precast concrete class 25/12 units in:</u>				
E	250 x 50mm (average) thick once weathered and throated window cill	35	LM		
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<u>TOTAL CARRIED</u>				
	<u>TO SUMMARY</u>				

	<u>ELEMENT NO. 4</u>				
	<u>ROOF</u>				
	<u>Roof Covering</u>				
A.	Box profile GI sheeting gauge 28 resincot on timber framework	545	SM		
B.	Extra over for ridge and hip cap to match	66	LM		
C	Valley gutter 300mm girth	36	LM		
	Supply and fix sawn celcured 2 nd grade cypress with and				
	<u>including nailing or bolting, drilling for bolts</u>				
D	150 x 50mm rafters packing pieces	144	LM		
E	150 x 50mm hip rafters	164	LM		
F	150 x 50mm valley rafters	72	LM		
G	200 x 38mm ridge board	80	LM		
H	100 x 50mm wall plate bolted at 1000mm centres	204	LM		
I	75 x 50mm purlins	500	LM		
	<u>The following trusses in sawn celcured 2nd grade cypress with and including nailing/bolting, drilling holes</u>				
J	150 x 50mm rafters	508	LM		
K	150 x 50mm tie beam	414	LM		
L	100 x 50mm struts and ties	514	LM		
	<u>Eaves Finishes</u>				
	<u>Wrot celcured prime grade cypress in:</u>				
M	250 x 38mm fascia	204	LM		
	Carried Forward				

	Brought Forward				
	Metalwork				
A	300 x 12mm diameter bolts complete with head nuts and washers built into concrete to hold wall plate	220	NO		
	Rainwater goods				
B	150mm diameter uPVC rainwater gutter bent to profile including 20mm deep wedge shaped base and fixing with brackets at 1000mm centres	204	LM		
C	100mm diameter ditto down pipe fixed to wall with and including hold fasts at 1000mm centres	24	LM		
	Extra over for:-				
D	100mm diameter shoe	12	NO		
E	100mm diameter swan neck	12	NO		
F	100mm diameter outlet	12	NO		
G	Bend	12	NO		
	Painting and Decorating				
	Prepare and apply three coats of gloss paint to surfaces				
H	Surfaces between 200mm and 300mm girth	185	LM		
	ELEMENT NO. 4	TOTAL CARRIED			
	ROOF	TO SUMMARY			

	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>EXTERNAL DOORS</u>				
A	Glazed 1500x 2400mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No. heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1500x150mm, apply red oxide primer before fixing	4	NO		
	<u>Glazing</u>				
B	4mm clear sheet glass and glazing with putty in panes of various sizes	3	SM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
C	General surfaces internally	13	SM		
D	Ditto externally	13	SM		
	<u>Supply and fix the following ironmongery with matching screws as Union Catalogue or other equal and approved</u>				
E	5-Lever mortice dead lock cat No. 2101 complete with approved lock furniture	4	NO		
F	38mm diameter x 59mm deep rubber door stop ref No. 8400	32	NO		
G	100mm pairs stainless steel double action spring hinges	24	Prs		
H	100mm pairs brass butt hinges	20	Prs		
I	Three lever rebated mortice lock complete with furniture	32	NO		
	Carried Forward				

	Brought Forward				
	<u>INTERNAL DOORS</u>				
	<u>Flush doors</u>				
A	45 x 1200x 2400mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	6	NO		
B	45 x 900 x 2100mm high solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	20	NO		
	<u>Wrot Mahogany to door frames and finishings</u>				
C	150 x 50mm frame with 3 labours	125	LM		
D	150 x 50mm transome with 4 labours	25	LM		
E	15 x 40mm moulded architrave	125	LM		
F	25mm diameter moulded quadrant	125	LM		
G	4mm thick clear sheet glass and glazing with beads in panes between 0.15m and 0.5sm	20	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
H	Surfaces not exceeding 100mm girth	145	LM		
I	Surfaces exceeding 100mm but not exceeding 200mm girth	150	LM		
J	General surfaces	88	SM		
K	3 lever mortice lock,with polished brass lever furniture and including all other necessary furniture.	32	NO		
L	Aluminium kicking plate,1150×500x2mmmm fixed to flush doors	20	NO		
M	Aluminium kicking plate,850×500x2mm fixed to flush doors	24	NO		
N	Aluminium kicking plate,1750×500x2mm fixed to flush doors	20	NO		
O	Overhead door closer ; cat. No. 8823	6	NO		
P	Floor spring double action Ref. Yale 913.02 90° S.O	12	NO		
	<u>ELEMENT NO. 5</u> <u>TOTAL CARRIED</u>				
	<u>DOORS</u> <u>TO SUMMARY</u>				

	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<u>The following in purpose made steel casement windows in heavy duty 'T' and 'Z' section frame including mullions, transomes in-built mosquito proof gauze permanent vents hood with at top, high quality heavy duty polished brass ironmongery to M/s Kensmetal Ltd or other equal and approved fasteners, window stays, fixing lags, and apply primer before fixing (small panel windows) with intergrated burglar proofing in tubes welded horizontally and vertically in line with opening light casement, transomes and mullions (m/s)</u>				
A.	1500 x 1600mm high comprising side hung, top hung and fixed lights to detail	11	NO		
B.	1500 x 1300mm high ditto	2	NO		
C	1500 x 1000mm high ditto	2	NO		
C	900 x 1000mm high ditto	4	NO		
D	600 x 1000mm high ditto	10	NO		
	<u>Burglar proofing</u>				
E	Mild steel grille framed with 25x25x3mm thick RHS section including assembly and fixing to opening cutting and pinning lugs to concrete and bedding frame in cement and sand mortar (1:4)	63	SM		
	<u>Glazing</u>				
F	4mm clear sheet glass and glazing with putty in panes of various sizes	63	SM		
G	Ditto obscure glass pane	12	SM		
	<u>Wrot prime grade cypress</u>				
H	150 x 150mm pelmet comprising 125 x 25mm thick top, 125 x 25mm fascia with 2No. labours, 40 x 40mm wrot bearers, 2No. brass curtain rails, rollers, stoppers, 125 x 125 x 25mm thick end brackets to detail	204	LM		
I	125 x 25mm window board	32	LM		
J	25mm quadrant	32	LM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
K	General surfaces internally	63	SM		
L	Ditto externally	63	SM		
M	Burglar proofing	63	SM		
	<u>Prime back of wood before fixing</u>				
O	Surfaces between 100 and 200mm girth	655	LM		
P	Surfaces not exceeding 100mm girth	500	LM		
	<u>Knot, prime, stop and apply two undercoats and one gloss oil coats finishing to wood</u>				
Q	General surface of pelmet	35	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
R	Surfaces not exceeding 100mm girth	500	LM		
S	Surfaces exceeding 100mm but not exceeding 200mm girth	655	LM		
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	TOTAL CARRIED TO SUMMARY				

	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
A.	12mm cement/sand (1:4) render to columns and ringbeams	45	SM		
B.	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows and doors	305	LM		
C.	12mm thick cement/sand render to plinth	122	SM		
D	Key pointing in flush vertical and recessed horizontal joints	490	SM		
E	Eaves boarding; in 20mm thick Upvc boarding	122	SM		
F	50 x 50mm cypress bandering	605	LM		
G	75 x 50mm moulded cypress cornice	408	LM		
	<u>Internal Wall Finishes</u>				
	<u>Cement, lime, sand plaster</u>				
H	12mm cement/lime/sand (1:1:6) fine plaster to walls and beams internally	490	SM		
I	20mm cement/sand (1:4) render to receive ceramic tiles	70	SM		
	<u>Glazed wall tiles to manufacturer</u>				
J	250 x 250x6mm thick patterned glazed wall tiles fixed with adhesive to rendered surfaces (m/s) with and including rounded plastic edge tiles (2100mm high)	70	SM		
K	Extra over for 75 mm wide decorative band	60	LM		
	<u>Floor Finishes</u>				
	<u>Terrazzo paving</u>				
L	38m thick (24mm backing & 14mm thick terrazzo layer)	363	SM		
M	100 x 20mm skirting	204	LM		
N	12mm thick terrazzo floor tile	363	SM		
	<u>Ceiling</u>				
	<u>Drywall ceiling</u>				
O	12mm thick cement gypsum board ceiling complete with studd works	50	SM		
	<u>Acoustic insulation</u>				
P	600 x 600mm acoustic suspended ceiling complete with studd works	313	SM		
	<u>Drywall ceiling</u>				
Q	100 x 25mm moulded cornice	250	LM		
	<u>Trap door</u>				
R	600 x 450mm chipboard trap door including 50 x 50mm frame,aluminium joists	2	NO		
	<u>ELEMENT NO. 7</u> <u>TOTAL CARRIED</u>				
	<u>FINISHES</u> <u>TO SUMMARY</u>				

	<u>ELEMENT NO. 8</u>				
	<u>PAINTING AND DECORATING</u>				
	<u>Externally</u>				
	<u>Prepare and apply undercoats and three coats plastic emulsion paint to:-</u>				
A.	Plastered external columns,ringbeams	45	SM		
B.	Plastered niches and reveals not exceeding 300mm wide	305	LM		
	<u>Internally</u>				
	<u>Prepare and apply three coats silk vinyl paint to</u>				
C.	Plastered walls and concrete surfaces	490	SM		
	<u>Prepare and apply three coats plastic emulsion paint to:-</u>				
D.	Drywall suspended ceiling	50	SM		
	<u>Prime back of wood before fixing</u>				
E.	Surfaces not exceeding 100mm girth (cornice)	250	LM		
	<u>Prepare and apply primer two undercoats and one gloss oil finishing coat to wood</u>				
F	Surfaces not exceeding 300mm girth (cornice)	250	LM		
	<u>Prepare and apply two coats black bituminous paint to:-</u>				
G	Rendered plinth externally	35	SM		
	<u>ELEMENT NO. 8</u> <u>TOTAL CARRIED</u>				
	<u>PAINTING AND</u> <u>TO SUMMARY</u>				
	<u>DECORATING</u>				

	<u>ELEMENT NO. 9</u>				
	<u>FITTINGS AND FIXTURES</u>				
A	Allow a provisional sum of Ksh 100,000 for nurse station construction including MDF board timber door with malfa hidges, granitto tiles top finishes	1	Sum		100,000.00
A	Allow a provisional sum of Ksh 100,000 for lockers at the sergical changing areas	1	Sum		100,000.00
B	225x25mm thick MDF shelves with approved beading screwed to steel angles (m/s)	60	LM		
C	Standard pressed steel shelf brackets to approval	25	NO		
D	Supply and fix steel I-beams size 200x100mm at the theatres to suspend the theatre lights	7	LM		
	<u>ELEMENT NO.9</u> <u>TOTAL CARRIED</u>				
	<u>FITTINGS AND</u> <u>TO SUMMARY</u>				
	<u>FIXTURES</u>				

ITEM	DESCRIPTION	QTY	UNI	RATE	AMOUNT
	ELEMENT NO. 10				
	<u>Builder's Work</u>				
	The contractor shall here allow all builder's work in connection with Electrical and Mechanical Engineering Installation				
	The builders work shall include but not limited to				
	a) Chases in wall, concrete work, and make good				
	b) Forming, making or leaving holes, etc in masonry concrete or wood work				
	c) Making good all disturbed area				
	d) Excavations refill and disposal of spoil				
	<u>Electrical Work</u>				
A.	Allow for all builder's work in connection with Electrical Engineering Installations	1	It e m		
	<u>Mechanical Engineering</u>				
B.	Allow for all builder's work in connection with Mechanical Engineering Installations	1	It e m		
	ELEMENT NO. 10				
	BUILDER'S WORK				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY OF ELEMENTS				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE CONCRETE				
3	WALLING				
4	ROOF				
5	DOORS				
6	WINDOWS				
7	FINISHES				
8	PAINTING AND DECORATING				
9	FITTINGS AND FIXTURES				
10	BUILDER'S WORK				
	TOTAL CARRIED TO SUMMARY				
	MATERNITY				

SANITARY FITTINGS					
Item	Description	Unit	Qty	Rate	Amount
	Supply, deliver, install and fix the following				
	sanitary fittings including all materials and				
	jointing to supply, waste/soil and overflow				
	pipes.Twyfords Ltd 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				
	Water Closet				
A	Squatting water closet suite in vitreous china				
	comprising of water closet bowl with top plate and				
	integral foot threads, S-trap connector, 9 litres high				
	cistern and fittings and pull chain including siphon,				
	15mm dia side inlet ball valve, 20mm dia side				
	overflow, plastic flush pipe, inlet connector and	No	7		
	cistern supports. All to be as "Twyfords Oriental" or				
	approved equivalent.				
	Medical Wash Hand Basin				
C	Counter top Twyfords "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	No	4		
	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.				
	Soap Dish				
D	Twyfords semi-recessed built in soap tray in vitreous	No	6		
	china size: 305 x 150mm				
	Robe hook				
E	Robe hook in vitreous china and in white colour				
	mounted unto a concealed screw to wall wedges, to	No	7		
	be as Twyfords OC 6858 1998 or approved				
	equivalent.				
	Towel rail				
F	Twyfords Bathrooms Ltd Ref. No. PB 0363 CP	No	6		
	chrome plated screw to wall Towel Rail 650mm long				
	complete with screws.				
Sub-total carried forward to collection page					
P1					

Item	Description	Unit	Qty		
	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 Twyford's "SEMI RECESSED & ORNAMENTAL" accessories Ref. No. VC 9808 WH	No	7		
A					
	Wash hand basin				
	Wash hand basin size 510 x 420mm with one tap holes and chain stay hole, 32mm diameter chrome plated pop up chain waste, concealed wall brackets, chrome plated single tap hole basin mixer as Cobra and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. The wash hand basin to be as Twyford's 'Sola 510' or equal and approved.	No	10		
B					
	Shower fitting				
	Concealed shower mixer for hot and cold water consisting of 15mm chrome plated riser pipe to connect the water to a swivel/ adjustable shower rose, chrome plated handles and stop corks and other necessary fittings & accessories. All to be as Bricon/aztec or equal and approved.	No	6		
C					
	Baby bath				
	Vitreous china baby bath of size 510 x 650mm with two tap holes complete with supporting front legs and bearers in stainless steel, 32mm diameter waste fitting with removable overflow tube, lever operated mixer tap and chrome plated handles. All as Twyford's baby bath or approved equivalent.	No	1		
D					
	Hand drier				
	Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m ³ /min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Mediclinic or approved equivalent.	No	7		
E					
(P2)Sub-total carried forward to collection page					

	Soap Dispenser				
A	Soap Dispenser, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, lock and key complete with initial fill of soap gel. The soap dispenser to be as ZALPON'S MARK 7 model, size 125 x 100 x 290mm high or approved equivalent	No	7		
	Kitchen Sink				
B	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	1		
	Dhobi Sink				
C	Heavy Duty stainless steel dhobi sink of size 675 x 485 x 300 mm deep in 16 SWG as manufactured by ASL 131 or equivalent suitable for wall mounting with 1 No 15 mm diameter chrome plated back inlet bib tap as Cobra Ref 107 CP, 40 mm diameter chrome plated bottle trap and chain waste fitting and plug.	No	1		
	Sterilization Sink				
D	Hospital sterilization sink in stainless steel, size 600 x 600mm x 450mm deep with two tap holes, stainless steel cantilever brackets(pair) , front leg supports in stainless steel and unslotted chain waste fitting complete with lever action mixer tap for hot and cold water. All as Twyford's Hospital Sink or approved equivalent.	No	1		
Sub-total carried forward to collection page					
P3					

	Mirror				
A	Mirror of size 1,200 x 600x 6mm thick, plugged and				
	screwed to wall with 6No. chrome plated dome				
	capped screws. The mirror shall rest against a layer of	No	6		
	5mm thick foam.				
B	Mirror of size 600 x 600x 6mm thick, plugged and				
	screwed to wall with 6No. chrome plated dome				
	capped screws. The mirror shall rest against a layer of				
	5mm thick foam.	No	0		
	Scrub-Up				
C	Twyford Scrub-up Trough 2500mm long with Left				
	hand outlet Cat No. SS9122SS Complete with 3No.				
	wall mounted Lever action mixer taps Cat No.				
	SF1099CP 11/2Chrome plated Waste fitting and as				
	trap	No	1		
	Flexible Tubing				
D	15mm diameter x 300mm long chrome plated	No	9		
	flexible connectors.				
	Angle valve				
E	Chrome plated Angle shut-off valve as Cobra or	No	60		
	approved equivalent				
	Sluice Unit				
F	Twyford's "Grafton B.P.S." hopper cat.no.				
	FC4076WH loose-trap FC44612WH complete with				
	Vitreous china high level cistern 7.5 Litre capacity				
	with valveless fittings and reversible chain pull				
	CX7610WH, cistern supporting brackets				
	SR1300XX stainless steel flushpipe with spreader and				
	clips SS6020SS Combine bedpan and urinal bottle jet				
	with 1/2" lever handle taps, SF6504CP legs and				
	bearers for hopper SR3053XX sinks 760mm x				
	455mm FC1350WH chain and waste 1 1/2" chrome				
	plated WF4338CP waste pipe for the hopper				
	WF9685WH legs and bearers for sink SR3043XX				
	drain with anti-drip stip FC9684WH legs and bearers				
	for drain SR3052XX chrome plated extended bib				
	tap 1/2" SF5204CP Chrome plated Lever action	No	2		
	mixer tap flexible hose and handspray SF7053CP.				
	(P4) Sub-total carried forward to collection page				

COLLECTION PAGE					
Sanitary Fittings					
1	Sub-total brought down from page P-1				
2	Sub-total brought down from page P-2				
3	Sub-total brought down from page P-3				
4	Sub-total brought down from page P-4				
Total for Sanitary Fittings Carried Forward to Summary Page					

Item	Description	Unit	Qty	Rate	
	INTERNAL PLUMBING WORKS- COLD				
	WATER (ALL PROVISIONAL)				
	Supply, deliver and install pipes, tubing and fittings as described and shown on the drawings.				
	The pipes shall be PN 25 PPR pipes where exposed to adverse weather condition and all conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures.				
	PPR Pipes				
A	20mm diameter pipework	Lm	120		
B	25mm diameter pipework	Lm	80		
C	32mm diameter pipework	Lm	65		
D	40mm diameter pipework	Lm	75		
E	50mm diameter pipework	Lm	85		
	Bends				
F	20mm diameter bends	No.	100		
G	25mm diameter bends	No.	35		
H	32mm diameter bends	No.	20		
Sub-total carried forward to collection page					
P6					

A	40mm diameter bends	No.	20		
B	50mm diameter bends	No.	10		
	Tees				
C	25mm diameter equal tee	No.	40		
D	32mm diameter equal tee	No.	25		
E	40mm diameter equal tee	No.	60		
F	50mm diameter equal tee	No.	30		
	Reducers				
G	50 x 40mm diameter reducer	No.	20		
H	50 x 32mm diameter reducer	No.	25		
I	50 x 25mm diameter reducer	No.	25		
J	40 x 32mm diameter reducer	No.	50		
K	40 x 25mm diameter reducer	No.	30		
L	40 x 20mm diameter reducer	No.	20		
M	32 x 25mm diameter reducer	No.	22		
N	32 x 20mm diameter reducer	No.	24		
O	25 x 20mm diameter reducer	No.	50		
	Male/Female Threaded Brass Adapters				
P	32mm threaded brass coupling	No.	35		
Q	25mm threaded brass coupling	No.	37		
R	20mm threaded brass coupling	No.	50		
Sub-total carried forward to collection page					
P7					

	Valves				
A	20mm diameter approved medium pressure screw				
	down full way non-rising stem wedge gate valve to	No.	4		
	BS 5154 PN 20 for series B rating, with wheel and				
	head joints to steel tubing and complete with round				
	male threaded transition fittings. The gate valve to be				
	as PEGLER or approved equivalent.				
B	25mm ditto	No.	2		
C	40mm ditto	No.	4		
D	50mm ditto	No.	3		
	Unions				
E	25mm diameter pipe union	No.	3		
F	40mm diameter pipe union	No.	10		
G	50mm diameter pipe union	No.	7		
	Water storage tank in the roof space				
H	Supply and install rectangular loft water storage tank				
	of capacity 920 made from plastic and of dimension				
	1270x1270x580 mm Rotor or approved equivalent.				
	The tank shall be complete with inlet, outlet,				
	overflow and drain connection. It should have a	No.	6		
	50mm diameter medium pressure ball valve with				
	silencer pipe, bronze lever and copper float all as				
	"Glenfield" or approved equivalent. The tank shall				
	be firmly supported on the roof space.				
Sub-total carried forward to collection page					
	P8				
	Internal plumbing				
1	Sub-total brought down from page P-6				
2	Sub-total brought down from page P-7				
3	Sub-total brought down from page P-8				
Total for Internal Plumbing Carried Forward to Summary Page		-			

Item	Description	Unit	Qty	Rate	
	(ALL PROVISIONAL)				
	FOUL WATER INTERNAL DRAINAGE				
	Supply ,deliver and install the following UPVC,				
	MUPVC, soil and waste systems respectively to B.S				
	5255 with fittings fixed to Manufactures Printed				
	instructions and manufactured by reputable				
	manufacturers. Tenderers must allow in their				
	pipework prices for all the couplings, clippings,				
	connectors, joints etc. as required in the running				
	lengths of pipework and also where necessary, for				
	pipe fixing clips, holder bats plugged and screwed for				
	the proper and satisfactory functioning of the system.				
	MuPVC and uPVC Waste and Soil pipework				
A	100mm diameter heavy gauge grey mUPVC pipe	Lm	150		
B	50mm diameter waste pipe	Lm	100		
C	40mm diameter waste pipe	Lm	120		
	Bends				
D	100mm diameter long radius bend	No.	15		
E	100mm diameter short radius bend	No.	50		
F	100mm diameter sweep bend	No.	35		
G	50mm diameter bend	No.	50		
H	40mm diameter 90° bend	No.	80		
	Tees				
I	100mm diameter sweep tee	No.	40		
J	50mm diameter sweep tee	No.	25		
K	40mm diameter sweep tee	No.	30		
	Access Caps				
L	100mm diameter access cap	No.	25		
(P10) Sub-total carried forward to collection page					

Item	Description	Unit	Qty		
A	50mm diameter access cap	No.	20		
B	40mm diameter access cap	No.	30		
	Boss Connectors				
C	100 x 50mm diameter boss connector	No.	32		
D	100 x 40mm diameter boss connector	No.	15		
	WC Connectors				
E	100mm diameter WC connector	No.	10		
	Traps				
F	100 x 50mm diameter floor trap and grating	No.	12		
	Inspection Chamber				
G	Man-hole or inspection chamber size 600 x 450 mm				
	by approximately 750mm deep using 200mm thick				
	base (concrete class N15) with 250mm thick				
	benching including forming drain channels, and				
	200mm thick solid concrete block walling, including				
	15mm internal plaster and top slab/screed, including				
	pit digging, backfilling, carting away surplus and	No.	15		
	making good.				
	Man-hole frame				
H	Man-hole frame (light duty) in cast iron size 0.6 x				
	0.45m with recessed cover with concrete infill,	No.	15		
	finished to approval.				
	Weathering Slates and Vent Cows				
I	100mm diameter weathering slate and apron.	No.	5		
J	100mm diameter vent cowl	No.	5		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty		
A	Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.	1	ITEM		
B	Construct water tank masonry base diameter 2500mm and 300mm above general ground level. The base should have 200mm thick foundation footing, 200mm thick foundation wall including along diameter, 300mm thick hardcore layer and 150mm thick floor slab reinforced with y8 at 200mm centres both ways.	1	ITEM		
C	10,000 litres plastic tank UPVC cylindrical as roto or equal and approved.	1	NO		
D	Provide a sum for construction of the Standard Placenta Pit	1	NO		
E	Provide a Sum for the Construction of Septic Tank with a capacity of 22,500 litres for aprox. 100 people	1	NO		
F	Provide a sum for the Construction of soak Pit	1	NO		
COLLECTION PAGE					
Internal drainage					
1	Sub-total brought down from page P-10				
2	Sub-total brought down from page P-11				
3	Sub-total brought down from above				
Total for foul water Internal Plumbing Carried Forward to Summary Page					

	SUMMARY PAGE				
ITEM	DESCRIPTION				
1	Total for Sanitary Fittings Brought Down				
2	Total for Internal Plumbing Brought Down				
3	Total for Foul Water Drainage Brought Down				
	TOTAL FOR PLUMBING AND DRAINAGE CARRIED TO SUMMARY SUMMARY				

	SUMMARY PAGE				
1	Total For Casualty Builder's Works				
2	Total For Casualty Plumbing Works				
3	Allow A PC sum of Ksh 1,700,000 for Electrical Works				1,700,000.00
4	Allow a sum of Ksh 200,000 for project management				200,000.00
	TOTAL FOR CASUALTY CARRIED TO GRAND SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>CSSD BUILDERS WORKS</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURE (All Provisional)</u>				
	<u>Excavation and Earthworks</u>				
	Note: Include Plunking and strutting and keeping excavation free of water in earth work rates				
A.	Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed	132	SM		
B.	Excavate oversite averaging 300mm deep and cart away	132	SM		
C.	Excavate foundation trench not exceeding 1.50 metres deep starting from reduced level	51	CM		
D.	Excavate for column bases ditto	0	CM		
E.	Extra over for excavating in rock irrespective of depth	0	CM		
F.	Return fill and ram selected excavated materials around foundations	51	CM		
G.	Load and cart away excess excavations as directed	51	CM		
	<u>Filling</u>				
H	300mm thick hand packed hardcore filling rolled and compacted in layers not exceeding 150mm thick	132	SM		
I	50mm thick murrum blinding	132	SM		
J	Treat surface of hardcore with "Termidor" insecticide to manufacturers specification and provide 10 years guarantee certificate	132	SM		
K	1000 gauge polythene sheet damp proof membrane on blinded hardcore	132	SM		
	Carried Forward				

	Brought Forward				
	<u>Concrete Works</u>				
	<u>Mass concrete class 15/20</u>				
A.	50mm blinding strip foundation and column bases	0	SM		
	<u>Vibrated reinforced concrete class 20/20 in:-</u>				
B.	150mm thick floor slab	132	SM		
C.	Column and column bases	0	CM		
D.	Strip foundation	3	CM		
	<u>High tensile steel reinforcement bars to BS 4461</u>				
E.	12mm diameter	0	KG		
F.	10mm diameter	300	KG		
G.	8mm diameter	0	KG		
	<u>Fabric mesh</u>				
H.	Fabric mesh Ref. No. A142 (measured net) (No allowance for laps)	132	SM		
	<u>Sawn formwork to:</u>				
I.	Sides of strip foundation	20	SM		
J.	Sides of columns, column bases	0	SM		
K.	Edges of slab between 75mm and 150mm high	56	LM		
	<u>Natural stone wall bedded and jointed in cement/sand (1:3) mortar reinforced with 40mm hoop iron every alternate course</u>				
L.	200mm thick	84	SM		
	<u>Three ply hessian based bituminous felt horizontal damp proof course to BS 743, Type A weighing 3.8kg/m² bedded on</u>				
M.	<u>cement/sand (1:3) mortar</u> 200mm wide	100	LM		
	<u>PCC SLAB PAVING</u>				
N.	50mm thick pcc slab paving on and including 50mm thick sand bed and 300mm thick hardcore	67	SM		
O.	300mm wide U-shaped open drain sloped appropriately and jointed in mortar	56	LM		
	<u>ELEMENT NO. 1</u>	<u>TOTAL CARRIED</u>			
	SUBSTRUCTURE	TO SUMMARY			

	<u>ELEMENT NO. 2</u>				
	<u>SUPERSTRUCTURE CONCRETE</u>				
	<u>Vibrated reinforced concrete class 20/20 in:</u>				
A.	Columns	0	CM		
B.	Ring beam	6	CM		
	<u>High tensile steel reinforcement to BS 4461</u>				
C	12mm Diameter	350	KG		
D	8mm Diameter	250	KG		
	<u>Sawn formwork to:</u>				
E	Sides of columns	0	SM		
F	Sides and soffits of ring beams	80	SM		
	<u>ELEMENT NO. 2</u>				
	<u>TOTAL CARRIED</u>				
	SUPERSTRUCTURE CONCRETE TO SUMMARY				

	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<i>Fair dressed natural stone wall bedded and jointed in cement/sand (1:4) mortar (12mm joints) reinforced with 40mm hoop iron every alternate course</i>				
	<u>External walls</u>				
A.	200mm thick	220	SM		
B	Extra over for key pointing in flush vertical and recessed horizontal joints	168	SM		
C	100mm thick x 200mm high eaves closing	56	LM		
	<u>Internal walls</u>				
D	150mm thick	175	SM		
	<u>Precast concrete class 25/12 units in:</u>				
E	250 x 50mm (average) thick once weathered and throated window cill	15	LM		
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<u>TOTAL CARRIED</u>				
	<u>TO SUMMARY</u>				

	<u>ELEMENT NO. 4</u>				
	<u>ROOF</u>				
	<u>Roof Covering</u>				
A.	Box profile GI sheeting gauge 28 resincot on timber framework	200	SM		
B.	Extra over for ridge and hip cap to match	22	LM		
C	Valley gutter 300mm girth	12	LM		
	Supply and fix sawn celcured 2 nd grade cypress with and				
	<u>including nailing or bolting, drilling for bolts</u>				
D	150 x 50mm rafters packing pieces	75	LM		
E	150 x 50mm hip rafters	85	LM		
F	150 x 50mm valley rafters	46	LM		
G	200 x 38mm ridge board	40	LM		
H	100 x 50mm wall plate bolted at 1000mm centres	56	LM		
I	75 x 50mm purlins	132	LM		
	<u>The following trusses in sawn celcured 2nd grade cypress with</u> <u>and including nailing/bolting, drilling holes</u>				
J	150 x 50mm rafters	250	LM		
K	150 x 50mm tie beam	200	LM		
L	100 x 50mm struts and ties	250	LM		
	<u>Eaves Finishes</u>				
	<u>Wrot celcured prime grade cypress in:</u>				
M	250 x 38mm fascia	56	LM		
	Carried Forward				

	Brought Forward				
	<u>Metalwork</u>				
A	300 x 12mm diameter bolts complete with head nuts and washers built into concrete to hold wall plate	110	NO		
	<u>Rainwater goods</u>				
B	150mm diameter uPVC rainwater gutter bent to profile including 20mm deep wedge shaped base and fixing with brackets at 1000mm centres	56	LM		
C	100mm diameter ditto down pipe fixed to wall with and including hold fasts at 1000mm centres	12	LM		
	<u>Extra over for:-</u>				
D	100mm diameter shoe	6	NO		
E	100mm diameter swan neck	6	NO		
F	100mm diameter outlet	6	NO		
G	Bend	6	NO		
	<u>Painting and Decorating</u>				
	<u>Prepare and apply three coats of gloss paint to surfaces</u>				
H	Surfaces between 200mm and 300mm girth	155	LM		
	<u>ELEMENT NO. 4</u>	<u>TOTAL CARRIED</u>			
	ROOF	TO SUMMARY			

	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>EXTERNAL DOORS</u>				
A	Glazed 1500x 2400mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No. heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1500x150mm, apply red oxide primer before fixing	2	NO		
	<u>Glazing</u>				
B	4mm clear sheet glass and glazing with putty in panes of various sizes	2	SM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
C	General surfaces internally	7	SM		
D	Ditto externally	7	SM		
	<u>Supply and fix the following ironmongery with matching screws as Union Catalogue or other equal and approved</u>				
E	5-Lever mortice dead lock cat No. 2101 complete with approved lock furniture	2	NO		
F	38mm diameter x 59mm deep rubber door stop ref No. 8400	4	NO		
G	100mm pairs stainless steel double action spring hinges	4	Prs		
H	100mm pairs brass butt hinges	8	Prs		
I	Three lever rebated mortice lock complete with furniture	4	NO		
	Carried Forward				

	Brought Forward				
	<u>INTERNAL DOORS</u>				
	<u>Flush doors</u>				
A	45 x 1200x 2400mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	3	NO		
B	45 x 900 x 2100mm high solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	3	NO		
	<u>Wrot Mahogany to door frames and finishings</u>				
C	150 x 50mm frame with 3 labours	40	LM		
D	150 x 50mm transome with 4 labours	10	LM		
E	15 x 40mm moulded architrave	40	LM		
F	25mm diameter moulded quadrant	40	LM		
G	4mm thick clear sheet glass and glazing with beads in panes between 0.15m and 0.5sm	5	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
H	Surfaces not exceeding 100mm girth	188	LM		
I	Surfaces exceeding 100mm but not exceeding 200mm girth	850	LM		
J	General surfaces	88	SM		
K	3 lever mortice lock,with polished brass lever furniture and including all other necessary furniture.	6	NO		
L	Aluminium kicking plate,1150×500x2mmmm fixed to flush doors	12	NO		
M	Aluminium kicking plate,850×500x2mm fixed to flush doors	12	NO		
N	Aluminium kicking plate,1750×500x2mm fixed to flush doors	12	NO		
O	Overhead door closer ; cat. No. 8823	9	NO		
P	Floor spring double action Ref. Yale 913.02 90° S.O	6	NO		
	<u>ELEMENT NO. 5</u> <u>TOTAL CARRIED</u>				
	<u>DOORS</u> <u>TO SUMMARY</u>				

	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<u>The following in purpose made steel casement windows in heavy duty 'T' and 'Z' section frame including mullions, transomes in-built mosquito proof gauze permanent vents hood with at top, high quality heavy duty polished brass ironmongery to M/s Kensmetal Ltd or other equal and approved fasteners, window stays, fixing lags, and apply primer before fixing (small panel windows) with intergrated burglar proofing in tubes welded horizontally and vertically in line with opening light casement, transomes and mullions (m/s)</u>				
A.	1500 x 1600mm high comprising side hung, top hung and fixed lights to detail	11	NO		
B.	1500 x 1300mm high ditto	2	NO		
C	1500 x 1000mm high ditto	2	NO		
C	900 x 1000mm high ditto	4	NO		
D	600 x 1000mm high ditto	10	NO		
	<u>Burglar proofing</u>				
E	Mild steel grille framed with 25x25x3mm thick RHS section including assembly and fixing to opening cutting and pinning lugs to concrete and bedding frame in cement and sand mortar (1:4)	20	SM		
	<u>Glazing</u>				
F	4mm clear sheet glass and glazing with putty in panes of various sizes	6	SM		
G	Ditto obscure glass pane	0	SM		
	<u>Wrot prime grade cypress</u>				
H	150 x 150mm pelmet comprising 125 x 25mm thick top, 125 x 25mm fascia with 2No. labours, 40 x 40mm wrot bearers, 2No. brass curtain rails, rollers, stoppers, 125 x 125 x 25mm thick end brackets to detail	56	LM		
I	125 x 25mm window board	15	LM		
J	25mm quadrant	15	LM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
K	General surfaces internally	24	SM		
L	Ditto externally	24	SM		
M	Burglar proofing	24	SM		
	<u>Prime back of wood before fixing</u>				
O	Surfaces between 100 and 200mm girth	280	LM		
P	Surfaces not exceeding 100mm girth	500	LM		
	<u>Knot, prime, stop and apply two undercoats and one gloss oil coats finishing to wood</u>				
Q	General surface of pelmet	35	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
R	Surfaces not exceeding 100mm girth	255	LM		
S	Surfaces exceeding 100mm but not exceeding 200mm girth	255	LM		
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	TOTAL CARRIED TO SUMMARY				

	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
A.	12mm cement/sand (1:4) render to columns and ringbeams	0	SM		
B.	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows and doors	0	LM		
C.	12mm thick cement/sand render to plinth	0	SM		
D	Key pointing in flush vertical and recessed horizontal joints	168	SM		
E	Eaves boarding; in 20mm thick Upvc boarding	45	SM		
F	50 x 50mm cypress branderling	280	LM		
G	75 x 50mm moulded cypress cornice	112	LM		
	<u>Internal Wall Finishes</u>				
	<u>Cement, lime, sand plaster</u>				
H	12mm cement/lime/sand (1:1:6) fine plaster to walls and beams internally	260	SM		
	<u>Floor Finishes</u>				
	<u>Epoxy floor tile</u>				
I	15mm thick cement and sand (1:4) screed wood floated to receiveEpoxy floo finish (m/s)	132	SM		
J	3 MM thick epoxy to floors	132	SM		
K	20 x 100 mm high skirting with rounded top edge and coved at junction to paving	104	LM		
L	Plastic dividing strip	104	LM		
	<u>Ceiling</u>				
	<u>Acoustic insulation</u>				
M	600 x 600mm acoustic suspended ceiling complete with studd works	132	SM		
	<u>Trap door</u>				
N	600 x 450mm chipboard trap door including 50 x 50mm frame,aluminium joists	1	NO		
	<u>ELEMENT NO. 7</u> <u>TOTAL CARRIED</u>				
	<u>FINISHES</u> <u>TO SUMMARY</u>				

	<u>ELEMENT NO. 8</u>				
	<u>PAINTING AND DECORATING</u>				
	<u>Externally</u>				
	<u>Prepare and apply undercoats and three coats plastic emulsion paint to:</u>				
A.	Plastered external columns,ringbeams	0	SM		
B.	Plastered niches and reveals not exceeding 300mm wide	0	LM		
	<u>Internally</u>				
	<u>Prepare and apply three coats silk viny paint to</u>				
C.	Plastered walls and cocrete surfaces	260	SM		
	<u>Prime back of wood before fixing</u>				
D	Surfaces not exceeding 100mm girth (cornice)	300	LM		
	<u>Prepare and apply primer two undercoats and one gloss oil finishing coat to wood</u>				
E	Surfaces not exceeding 300mm girth (cornice)	250	LM		
	<u>Prepare and apply two coats black bituminous paint to:</u>				
F	Rendered plinth externally	45	SM		
	<u>ELEMENT NO. 8</u> <u>TOTAL CARRIED</u>				
	<u>PAINTING AND</u> <u>TO SUMMARY</u>				
	<u>DECORATING</u>				

	<u>ELEMENT NO. 9</u>				
	<u>FITTINGS AND FIXTURES</u>				
A	75mm concrete worktop finishes with 12mm thick terrazzo tile complete with 36no. 900 x 1200mm double MDF doors at low level including all ironmongery	42	SM		
A	Allow a provisional sum of Ksh 150,000 for High level cupboards and shelving	1	Sum		150,000.00
B	225x25mm thick MDF shelves with approved beading screwed to steel angles (m/s)	250	LM		
C	Standard pressed steel shelf brackets to approval	100	NO		
D					
	<u>ELEMENT NO.9</u> <u>TOTAL CARRIED</u>				
	<u>FITTINGS AND</u> <u>TO SUMMARY</u>				
	<u>FIXTURES</u>				

ITEM	DESCRIPTION	QTY	UNI	RATE	AMOUNT
	ELEMENT NO. 10				
	<u>Builder's Work</u>				
	The contractor shall here allow all builder's work in connection with Electrical and Mechanical Engineering Installation				
	The builders work shall include but not limited to				
	a) Chases in wall, concrete work, and make good				
	b) Forming, making or leaving holes, etc in masonry concrete or wood work				
	c) Making good all disturbed area				
	d) Excavations refill and disposal of spoil				
	<u>Electrical Work</u>				
A.	Allow for all builder's work in connection with Electrical Engineering Installations	1	It e m		
	<u>Mechanical Engineering</u>				
B.	Allow for all builder's work in connection with Mechanical Engineering Installations	1	It e m		
	ELEMENT NO. 10				
	BUILDER'S WORK				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY OF ELEMENTS				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE CONCRETE				
3	WALLING				
4	ROOF				
5	DOORS				
6	WINDOWS				
7	FINISHES				
8	PAINTING AND DECORATING				
9	FITTINGS AND FIXTURES				
10	BUILDER'S WORK				
	TOTAL CARRIED TO SUMMARY				

	PROPOSED ELECTRICAL WORKS FOR CSSD				
ITEM	DESCRIPTION	QTY	UNIT	RATE	
	CSSD				
	<i>Supply, install, test and commission the wallowing;-</i>				
	LIGHTING POINTS				
A	Lighting points wired in 1 S mm2 SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for:-				
	a) one way switching	No.	35		
	b) two way switching	No.	8		
	C) Unswitched	No.	5		
	SWITCHES				
B	10Amps, switch plate as CLIPSAL, MK or approved equivalent as				
	a) one gang one way	No.	48		
	bj two gang o ne way	No.	3		
	c) three gang one way	No.	5		
	d) one gang two way	No.	4		
	e) two gang two way	No.	2		
	F) intermediate	No.	1		
	LIGHTING FITTINGS				
C	Lighting fittings complete with bulbs or tubes as follows:				
	a) 1200 mm, ix 36 Watts batten fluorescent fitting as THORN or approved equivalent.	No.	26		
	b)60Watts, spherical screw neck ball fitting as THORN MTC 1060 or approved equivalent	No.	10		
	C) 1x18 Watts Bedhead fluorescent luminaire complete with prismatic diffuser as THORN PPD118 or approved equivalent.	No.	26		
	d)1x8Watts, Single sided EXIT emergency lighting luminaire as FITZGERALD, THORN or approved equivalent.(TYPE EXIT)	No.	4		
	Total to collection				

	e)100 Watts, cast aluminium bulkhead fitting for				
	300 Watts BC lamp with glass bowl as THORN				
	OLG 1100 or approved equivalent.	No.	10		
	f) Standard waterproof IP65 fluorescent fitting				
	with injection moulded polycarbonate body and				
	polycarbonate diffuser c/w 2X36W fluorescent				
	famps with Switchstart gear. As Thorn	No.	2		
	Aquaproof				
	g)6 No. Lamp ceiling mounted operating theatre				
	liminaire as BURTON GENESIS PLUS or				
	approved equivalent.	No.	1		
	SOCKET OUTLETS AND OTHER POWER POINTS				
A	13 Amps. Socket outlet points wired ring				
	comprising of 3x2.5 mm sq. single core PVC				
	copper cables drawn in concealed 25mm HG	No.	51		
	PVC conduits including all accessories.				
B	13 Amps. Moulded plate switched socket outlet				
	with neon indicator as SWE, CLIPSAL or approved				
	equivalent				
	a) single	No.	36		
	b) twin.	No.	15		
C	Instant shower point comprising wiring in				
	3x4.0mm ² PVC-SC-CU cables in concealed PVC	No.	6		
	conduits				
D	32 Amps double pole switches with neon indicator as CLIPSAL or		6		
	approved equivalent for item above	No.			
E	Sterelizer points comprising wiring in 3x2.5mm ²				
	PVC-SC-CU cables in concealed PVC conduits	No.	2		
	to sluice rooms				
F	70 Amps double pole switches with neon				
	indicator as CLIPSAL or approved equivalent.	No.	2		
	Total to collection				

	TELEPHONE/DATA AND TV WORKS				
A	TV outlet point complete with wiring in CO				
	AXIAL cable drawn in concealed HG PVC conduit	No.	4		
	including moulded plates				
	DISTRIBUTION BOARDS/CONSUMER UNIT				
B	12ways TP flush mounted distribution board				
	complete with 1 OOA integral isolator as HAGER/HAVELLS				
	or approved equivalent complete with all	No.	1		
	accessories but excluding MCBs.				
C	MCB's for item above				
	a) 10A, SP	No.	3		
	b) 20A, SP	No.	6		
	c) 32A, SP	No.	3		
	d) 63A, TP	No.	2		
	e) Blanking Plates	No.	22		
	SUB-MAIN POWER DISTRIBUTION				
D	50mm 4Core PVC/SWA/PVC Copper cable				
	drawn in duct from power house to LV Subboard	LM	25		
E	Trenching to a depth of a minimum of				
	700mm Tiling with 'HATARI' tiles & Back filling	LM	25		
	of the trenches for item above				
F	3x35.0mm ² single CU PVC cables from looping box	LM	14		
	to consumer unit drawn in 50mm HG PVC conduit				
G	Standard looping box complete with 3 No. cut-out	No.	1		
	fuses c/w cartridge fuse				
	Total to collection				

[illegible]

	CSSD SUMMARY PAGE				
1	Total For CSSD Builder's Works				
2	PC SUM for CSSD Plumbing Works				250,000.00
3	Total For CSSD Electrical Works				
4	Allow a sum for project management				200,000.00
	TOTAL FOR CSSD CARRIED TO GRAND SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	2 DOOR PIT LATRINE EACH FOR STAFF ELEMENT NO. 1				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	SM	9		
	<u>Excavations</u>				
B	Excavating trenches in normal soil to receive foundations not exceeding 1.50m deep starting from reduced level	CM	6		
C	Extra over all excavations and earthworks for breaking up hard rock where encountered	CM	3		
	Excavation including maintaining and supporting sides and keeping free from water, mud and fallen materials				
D	To reduce levels	CM	18		
E	Pit bulk Excavation	SUM	ITEM		
F	Load and cart away surplus excavated material from site	CM	18		
Carried to collection					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>50 mm thick mass concrete (1:4:8) in:-</u>				
A	Blinding under strip foundation	SM	5		
	<u>Insitu reinforced concrete class 20/20: vibrated: in</u>				
B	Strip foundation & Ground Beam	CM	2		
C	Ditto but 100mm thick floor slab	SM	6		
	<u>Sawn formwork to:-</u>				
D	Sides: strip foundation	SM	7		
E	Sides: Ground Beam	SM	15		
F	Edges: slabs over 75 but not exceeding 150 mm girth	LM	17		
	<u>Deformed mild steel reinforcement to B.S 4449 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacer blocks (All Provisional)</u>				
G	Assorted Bars	Kgs.	68		
	<u>Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett - allow for laps).</u>				
H	Fabric ref. A-142 weighing 0.54kg/ sq.metre,in surface bed.	SM	6		
Carried to collection					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
A	<u>Approved Taveta Blocks; roughly squared; bedded in cement mortar (1:4); 25 mm wide x 20 Gauge hoop iron strapping every alternate course</u> 200mm thick foundation walls	SM	7		
Carried to collection					
	<u>Collection</u> From page 1 From page 2 From page 3				
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 2 - REINFORCED CONCRETE WORKS</u>				
	<u>Insitu reinforced concrete class 20/20: vibrated: in</u>				
A	Beams	CM	2		
	<u>Deformed mild steel reinforcement to B.S 4449 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacer blocks (All Provisional)</u>				
B	Assorted Bars	Kgs.	8		
	<u>Sawn formwork as described to:-</u>				
C	Sides and soffites of beams	SM	4		
TOTAL FOR REINFORCED CONCRETE WORKS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 3</u>				
	<u>EXTERNAL WALLS</u>				
	<u>Approved Taveta Blocks bedded and jointed in cement and sand (1:3) mortar and reinforced with 25mm wide x 20 gauge hoop iron in alternate courses as described in:</u>				
A	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	SM	12		
	<u>Damp proof course</u>				
B	200mm wide "Pluvex" or other equal and approved damp-proof course laid and bedded in and including cement and sand mortar (1:4)	LM	6		
	<u>Precast Concrete Window Vents</u>				
C	200 mm thick	SM	2		
	TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY				

Page L/6

Page L/7

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 6</u>				
	<u>DOORS</u>				
	<u>Semi-solid core flush door: including mahogany lipped edges:3mm thick mahogany veneer lining both sides</u>				
A	50mm thick door overall size 820 x 2060 mm high .	No.	2		
	<u>Prime grade wrot mahogany</u>				
B	150 x 50 mm Door frame: rebated: plugged	LM	11		
C	40 x 20 mm Architrave: splayed	LM	11		
D	15 mm Quadrant	LM	11		
	<u>Ironmongery</u>				
E	150mm brass butt hinges	Prs	3		
F	Two lever mortice lock set complete with handle furniture	No.	2		
G	Dowels	No.	4		
H	Fixing lugs	No.	12		
I	38mm rubber door stops as described	No.	2		
	<u>Painting</u>				
J	Prepare and apply three coats of clear varnish to timber surfaces	SM	7		
K	Ditto 100 - 200mm girth	LM	11		
L	Ditto but not exceeding 100mm girth	LM	22		
	TOTAL FOR INTERNAL DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT NO. 7 - WALL FINISHES</u>				
	<u>EXTERNAL</u>				
	<u>Key pointing</u>				
A	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar.	SM	12		
	<u>INTERNAL</u>				
	<u>Gauged plaster 1:1:9 as described to:</u>				
B	Walls and concrete surfaces internally	SM	35		
TOTAL FOR WALL FINISHES CARRIED TO SUMMARY					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 8 - FLOOR FINISHES</u>				
	<u>Woodfloat cement and sand screed (1:4) in:</u>				
A	32 mm thick internally	SM	6		
TOTAL FOR FLOOR FINISHES CARRIED TO SUMMARY					

SUMMARY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>1 NO 8 DOOR PIT LATRINE /BATHROOMS</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	SM	36		
	<u>Excavations</u>				
B	Excavating trenches in normal soil to receive foundations not exceeding 1.50m deep starting from reduced level	CM	24		
C	Extra over all excavations and earthworks for breaking up hard rock where encountered	CM	12		
	Excavation including maintaining and supporting sides and keeping free from water, mud and fallen materials				
D	To reduce levels	CM	72		
E	Pit Latrine bulk excavation	SUM	ITEM		
F	Load and cart away surplus excavated material from site	CM	72		
Carried to collection					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>50 mm thick mass concrete (1:4:8) in:-</u>				
A	Blinding under strip foundation	SM	20		
	<u>Insitu reinforced concrete class 20/20: vibrated: in</u>				
B	Strip foundation & Ground Beam	CM	8		
C	Ditto but 100mm thick floor slab	SM	24		
	<u>Sawn formwork to:-</u>				
D	Sides: strip foundation	SM	28		
E	Sides: Ground Beam	SM	60		
F	Edges: slabs over 75 but not exceeding 150 mm girth	LM	68		
	<u>Deformed mild steel reinforcement to B.S 4449 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacer blocks (All Provisional)</u>				
G	Assorted Bars	Kgs.	272		
	<u>Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett - allow for laps).</u>				
H	Fabric ref. A-142 weighing 0.54kg/ sq.metre,in surface bed.	SM	24		
Carried to collection					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
A	<u>Approved Taveta Blocks; roughly squared; bedded in cement mortar (1:4); 25 mm wide x 20 Gauge hoop iron strapping every alternate course</u> 200mm thick foundation walls	SM	28		
Carried to collection					
	<u>Collection</u> From page 1 From page 2 From page 3				
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 2 - REINFORCED CONCRETE WORKS</u>				
	<u>Insitu reinforced concrete class 20/20: vibrated: in</u>				
A	Beams	CM	8		
	<u>Deformed mild steel reinforcement to B.S 4449 in structural concrete work including cutting, bending, hoisting, fixing, tying wire and spacer blocks (All Provisional)</u>				
B	Assorted Bars	Kgs.	32		
	<u>Sawn formwork as described to:-</u>				
C	Sides and soffites of beams	SM	16		
TOTAL FOR REINFORCED CONCRETE WORKS CARRIED TO SUMMARY					

Page L/5

Page L/6

Page L/7

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	ELEMENT No. 6				
	<u>DOORS</u>				
	<u>Semi-solid core flush door: including mahogany lipped edges:3mm thick mahogany veneer lining both sides</u>				
A	50mm thick door overall size 820 x 2060 mm high .	No.	8		
	<u>Prime grade wrot mahogany</u>				
B	150 x 50 mm Door frame: rebated: plugged	LM	44		
C	40 x 20 mm Architrave: splayed	LM	44		
D	15 mm Quadrant	LM	44		
	<u>Ironmongery</u>				
E	150mm brass butt hinges	Prs	12		
F	Two lever mortice lock set complete with handle furniture	No.	8		
G	Dowels	No.	16		
H	Fixing lugs	No.	48		
I	38mm rubber door stops as described	No.	8		
	<u>Painting</u>				
J	Prepare and apply three coats of clear varnish to timber surfaces	SM	28		
K	Ditto 100 - 200mm girth	LM	44		
L	Ditto but not exceeding 100mm girth	LM	88		
	TOTAL FOR INTERNAL DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT NO. 7 - WALL FINISHES</u>				
	<u>EXTERNAL</u>				
	<u>Key pointing</u>				
A	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar.	SM	48		
	<u>INTERNAL</u>				
	<u>Gauged plaster 1:1:9 as described to:</u>				
B	Walls and concrete surfaces internally	SM	140		
TOTAL FOR WALL FINISHES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
	<u>ELEMENT No. 8 - FLOOR FINISHES</u>				
	<u>Woodfloat cement and sand screed (1:4) in:</u>				
A	32 mm thick internally	SM	24		
TOTAL FOR FLOOR FINISHES CARRIED TO SUMMARY					

Page L/11

ITEM	DESCRIPTION	BQ QTY	UNIT	RATE	BQ AMOUNT (KSHS)
	SEPTIK TANK,SOAK PIT & ASSOCIATED WORKS				
	SEPTIC TANK (100m3)				
A	Excavate for septic tank in normal soil n.e 1.5m deep.	100	CM		
B	Ditto but 1.5-3.0m deep	50	CM		
C	Return fill in and ram selected excavated material around foundation.	8	CM		
D	Remove surplus excavated material from site	50	CM		
E	250mm bed of selected hardcore well-compacted and blended with fine material 25 mm buck to receive dump proof membrane measured separately.	50	SM		
F	Approved insecticide treatment as gladiator TC or other equally and approved anti-termite treatment with 10 years manufacturers guarantee	50	SM		
G	500 gauge diothene or other equal and approved polythen sheet being as damp proof membrane laid on blinded hardcore with melted laps (measured net no.) allowance made for laps	50	SM		
	<u>Concrete (grade 15).</u>				
H	50mm thick blinding under foundations	50	SM		
	<u>Vibrated reinforced concrete (grade 25).</u>				
I	100 mm thick scum baffle wall reinforced with mesh BRC A142	12	SM		
J	200 mm Bed laid on damp proof membrane (measured separately) in bays not exceeding 50 square.	50	SM		
K	150 mm Suspended slab cover with 600x450mm openings to receive manhole covers (ms)	55	SM		
	TOTAL C/F				

[illegible]

ITEM	DESCRIPTION	BQ QTY	UNIT	RATE	BQ AMOUNT (KSHS)
	B/F				-
	<u>FINISHES</u>				
	Floor				
A	20mm thick c/s screed (1:3) steel trowelled smooth	20	SM		
	Wall				
	<u>Cement Sand 1:3 plaster</u>				
B	15mm thick plaster steel trowelled smooth	140	SM		
	<u>M.S Steps and Covers</u>				
C	200x350mm U-shaped step irons at 300c/c plugged into masonry.	30	NO		
D	450x600mm light duty cast iron manhole covers to approval	12	NO		
	<u>DISPOSAL SYSTEM</u>				
	<u>Waste Drainage system (from Kiosks to Soak Pit)</u>				
E	Excavate trench for drain pipe average 600mm wide not exceeding 1.0m deep including back filling, cart away and deposit as directed	60	LM		
	<u>High Grade Grey uPVC Waste Pipes as 'KEY TERRAIN' or equally approved</u>				
F	50mm PVC Plastic drain pipe	100	LM		
G	110mm PVC Plastic drain pipe	60	LM		
H	Extra Over for 110 diameter pipe 90 Degrees bend	15	NO		
I	Ditto 50mm diameter bend	15	NO		
	TOTAL C/F				

ITEM	DESCRIPTION	BQ QTY	UNIT	RATE	BQ AMOUNT (KSHS)
	B/F				
	SOAK PIT				
A	Excavate pit not exceeding 1500mm deep	90	CM		
B	Ditto 1500mm - 3000mm deep	90	CM		
C	Cart away excavated material as directed by project supervisor	50	CM		
D	200mm thick approved local stone load bearing foundation walling in cement mortar (1:3)	100	SM		
E	150 mm Suspended slab cover with 600x450mm openings to receive manhole covers (ms)	110	SM		
	<u>High Yield Square Twisted Reinforcement</u>				
F	10mm diameter bars	300	KG		
G	450x600mm light duty cast iron manhole covers to approval	2	NO		
H	150mm PVC perforated drain pipe	30	M		
I	600mm thick crushed stones	60	SM		
J	200mm thick compacted murram on polythene sheet	60	SM		
K	1000mm thick loose compacted approved soil filling	58	CM		
	TOTAL C/F				

[illegible]

Page 1

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (Kshs)
A	Load Bearing Foundation Stone walling in Cement Mortar 200 mm walling in foundations	SM	1400		
B	200mm wide dpc laid and bedded in and including cement sand mortar (1:4)	LM	1400		
C	Machine Cut Stone Walling in cement mortar with hoop iron in every alternating course 200 mm thick walling	SM	4050		
	Key pointing				
D	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar.	SM	4050		
E	Sundries 20 gauge hoop iron ties 25mm wide and 450mm girth cast into concrete one end and built into mortar joint of walling	NO	939		
F	Precast concrete trimmings finished fair on all exposed surfaces Capping with two labours size, 250 x 250 x 75mm	NO	500		
G	For 200 mm thick walls	LM	1400		
H	Mild Steel gates Mild steel gate in two equal leaves each leaf comprising 4mm steel plate profiled in 250 x 40mm equal folds and with 75 x 50 x 3 mm RHS framing all round including middle transom, All complete with heavy duty hinges, locking mechanism and finished in three coats gloss oil paint, overall size 6000 x 2100 mm	NO	2		
I	Ditto but for pedestrian gate size 1500 x 2100 mm	NO	1		
	SUBTOTAL				
	Page 1				
	Above				
	Allow A sum for Project Management				200,000
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH
	INSTALLATION AND COMMISSIONING OF GENSET & HOUSING				
	<u>GENSET</u>				
I)	Supply, deliver to site, install, test and commission a synchronized prime rated 650 KVA 3 phase, 415V, 50Hz diesel generating set with a continuous power factor of 0.8 lagging and as fully described in the particular specifications. The generator set is to be complete with a sound attenuated canopy and an integral base/belly daily service fuel tank with an operational running capacity of 8 hours.(PERKINS,CUMMINS,CATERPILLAR, or other approved by the Electrical Engineer)	1	pcs		
II	Supply, deliver to site and install a steel exhaust pipe of not less than 14 SWG and of adequate diameter running from generating set to the outside of the generator house	20	M		
	<u>CHANGE OVER SWITCH</u>				
i)	Onload enclosed Manual Change Over 400A MK approved(Schneider,Havells, ABB ,Siemens)	1	pcs		
	<u>WIRING</u>				
i)	Armoured cables complete with glands and pvc sleeves:				
	(a) 70 mm sq. 4 core PVC/SWA/PVC copper cable	30	M		
	(b) 2.5mm sq. , 4 core, PVC/SWA/PVC copper cable	10	M		
ii)	300 x 75 mm 16SWG cable trays complete with row bolts for ceiling/wall mounting	30	M		
	<u>CIVIL/STRUCTURAL WORKS</u>				
I)	Allow a Provisional sum to cover the construction of the area housing the generator.	1	item	1,500,000	1,500,000
	<u>SERVICE</u>				
	Allow for testing and commissioning of the entire works and one year service and warranty for all the component	1	item	50,000	50,000
	<u>EARTHING</u>				
i)	Complete earthing of generating set to electrical engineer's will comprise of the following:-				
	a)15mm x 1800mm earth rod	2	pcs		
	b)25 x 3mm copper tape	20	mtrs		
	c)concrete inspection pit	1	No.		
V111	Allow a sum for project Management				100,000
	TOTAL GENSET & HOUSING CARRIED TO THE SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH
A	<u>INSTALLATION AND COMMISSIONING OF MEDICAL DIESEL WASTE INCINERATOR</u> Should have the following technical specifications: a) Primary chamber capacity 100kg/hour b)Primary chamber maximum operating temperature of 1400° C c)Normal loading operating temperature of primary chamber 800° C to 1100 ° C d)Hours of operation 8-12 hours / day e)Primary chamber number of burners – One (1) f)Ash removal is manual g)Secondary chamber maximum operating temp 1400° C h)Secondary chamber normal operating temp 850° C to 1400° C i) Secondary chamber number of burners –one(1) j)Primary burner operation- two (2) stage k)Secondary burner operation – two (2) stage l)Burners fuel used- Diesel m) Maximum noise level 85Db @ 1 meter n) Electrical loads for both primary and secondary burners 0.25kw o) Combustion Air fan 3kw p) Recommended Diesel tank (stand-alone)3000liters q)The Chimney should be at least 2M above the roof r) Ambient operating condition -5° C to 50° C s)Moisture content of waste 20-50% t) Estimated Ash residual 5-10% u) Minimum Warranty period of one year	1	No.		
B	<u>HOUSING FOR THE INCINERATOR</u> Allow a Provisional sum to cover the construction of the area housing the incinerator.	1	item	500,000	500,000
C	Allow a sum for project Management				100,000
TOTAL FOR DIESEL POWERED INCINERATOR CARRIED TO THE GRAND SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSH
	INSTALLATION & COMMISSIONING OF				
	3 PHASE POWER TRANSFORMER				
	<u>TRANSFORMER AND THREE PHASE CONNECTION</u>				
i)	Supply,Install and commission a three phase transformer and three phase line, following KPLC requirements: a) voltage rating(as advised by KPLC) b) Cooling method : ONAN c)Insulation Class : As per KPLC standards d) Protection and earthing systems in line with KPLC guidelines	1	No.		
ii)	provisional sum for the Upgrade from single phase to three phase and nnecessary wiring around the hospital, following KPLC requirements: a) Protection and earthing systems in line with KPLC guidelines	1	item	1,500,000	1,500,000
iii)	Allow a Sum for project management				50,000
TOTAL FOR 3 PHASE POWER TRANFOMER CARRIED TO THE GRAND SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT(Kshs)
2.00	<u>DRIVEWAY & PARKING</u>				
	<u>Excavation and Earthworks</u>				
A	Excavate to reduce levels	CM	222		
	<u>Surface treatments</u>				
B	Grade bottoms of excavation to falls and crossfalls; compact to 95 percent B.S. compaction by an approved roller	SM	554		
C	"Tiarra WP" or other equal approved weedkiller as manufactured by Twiga Chemicals Limited or other equal and approved, applied strictly to manufacturer's instructions	SM	554		
D	150 mm thick selected murram sub-base filling, laid to falls and cross-falls, graded and compacted in 150 mm thick layers to 98 percent MDD	SM	554		
E	200 mm thick hand-packed hard stone fillings, graded, blinded and compacted to falls and cross-falls	SM	554		
F	50 mm thick approved blinding layer compacted to falls and cross-falls	SM	554		
G	50 mm thick sand bed to receive concrete block paving (measured separately)	SM	554		
H	80 mm thick precast concrete medium duty "cabro" paving blocks to manufacturer's specification laid to fall	SM	554		
	<u>Precast concrete units (class 25/20) vibrated; bedded, jointed and pointed in cement mortar (1:3), fair faced on all exposed surfaces</u>				
I	125 X 250 mm half battered road kerb and 150 X 100 mm thick channel block laid to falls on and including 350mm x 100 thick insitu concrete (class 20) base and 100 mm thick X 200 mm high haunching; excavation and earthworks; formwork; splayed edges	LM	115		
J	Ditto curved to various radii	LM	21		
	<u>Road Markings</u>				
K	Prepare surfaces and apply three coats roadline marking paint on surfaces 0-100 mm girth	LM	195		
	<u>TOTAL DRIVEWAY & PARKING</u>				
	Carried to summary of External works			Kshs.	

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>TWIN THEATRE BUILDERS WORKS</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURE (All Provisional)</u> <u>Excavation and Earthworks</u> Note: Include Plunking and strutting and keeping excavation free of water in earth work rates A. Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed 300 SM B. Excavate over site averaging 300mm deep and cart away 260 SM C. Excavate foundation trench not exceeding 1.50 meters deep starting from reduced level 74 CM D. Excavate for column bases ditto 17 CM E. Extra over for excavating in rock irrespective of depth 74 CM F. Return fill and ram selected excavated materials around foundations 83 CM G. Load and cart away excess excavations as directed 76 CM <u>Filling</u> H. 400mm thick hand packed hardcore filling rolled and compacted in layers not exceeding 150mm thick 245 SM I. 50mm thick Murrum blinding 260 SM J. Treat surface of hardcore with "Termidor" insecticide to manufacturers specification and provide 10 years guarantee certificate 260 SM K. 1000 gauge polythene sheet damp proof membrane on blinded hardcore 260 SM				
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>Concrete Works</u>				
	<u>Mass concrete class 15/20</u>				
A.	50mm blinding strip foundation and column bases	105	SM		
	<u>Vibrated reinforced concrete class 20/20 in:-</u>				
B.	150mm thick floor slab	260	SM		
C.	Column and column bases	3	CM		
D.	Strip foundation	21	CM		
	<u>High tensile steel reinforcement bars to BS 4461</u>				
E.	D12, D10 and D8 reinforcements to Engineer's details	783	KG		
	<u>Fabric mesh</u>				
F.	Fabric mesh Ref. No. A142 (measured net) (No allowance for laps)	260	SM		
	<u>Sawn formwork to:</u>				
G.	Sides of strip foundation	63	SM		
H.	Sides of columns, column bases	19	SM		
I.	Edges of slab between 75mm and 150mm high	80	LM		
	<u>Natural stone wall bedded and jointed in cement/sand (1:3) mortar reinforced with 40mm hoop iron every alternate course</u>				
J.	200mm thick	260	SM		
	<u>Three ply hessian based bituminous felt horizontal damp proof course to BS 743 ,Type A weighing 3.8kg/m² bedded on cement/sand (1:3) mortar</u>				
K.	200mm wide	136	LM		
	<u>PCC SLAB PAVING</u>				
L	50mm thick pcc slab paving on and including 50mm thick sand bed and 300mm thick hardcore	98	SM		
M	300mm wide U-shaped open drain sloped appropriately and jointed in mortar	30	LM		
	ELEMENT NO. 1	TOTAL CARRIED			
	SUBSTRUCTURE	TO SUMMARY			

[illegible]

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4</u>				
	<u>ROOF</u>				
	<u>Roof Covering</u>				
A.	Box profile GI sheeting gauge 28 resincot on timber framework	320	SM		
B.	Extra over for ridge and hip cap to match	58	LM		
C	Valley gutter 300mm girth	7	LM		
	<u>Supply and fix sawn celcured 2nd grade cypress with and including nailing or bolting, drilling for bolts</u>				
D	150 x 50mm rafters packing pieces	30	LM		
E	150 x 50mm hip rafters	34	LM		
F	150 x 50mm valley rafters	10	LM		
G	200 x 38mm ridge board	16	LM		
H	100 x 50mm wall plate bolted at 1000mm centers	102	LM		
I	75 x 50mm purlins	385	LM		
	<u>The following trusses in sawn celcured 2nd grade cypress with and including nailing/bolting, drilling holes</u>				
J	150 x 50mm rafters	220	LM		
K	150 x 50mm tie beam	180	LM		
L	100 x 50mm struts and ties	315	LM		
	<u>Eaves Finishes</u>				
	<u>Wrot celcured prime grade cypress in:</u>				
M	250 x 38mm fascia and barge board	80	LM		
N	100 x 25mm T&G eaves boarding nailed to battens (m/s)	48	SM		
O	50 x 50mm battens	191	LM		
P	25mm moulded quadrant	75	LM		
Q	50 x 150mm mosquito proofed slits eaves vents	4	NO		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>EXTERNAL DOORS</u>				
A	Glazed 1800x 2700mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1800x150mm, apply red oxide primer before fixing	1	NO		
B	Glazed 1200x 2700mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 45 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1200x150mm, apply red oxide primer before fixing	2	NO		
C	Glazed 900x 2400mm high single leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 900x150mm, apply red oxide primer before fixing	1	NO		
	<u>Glazing</u>				
D	4mm clear sheet glass and glazing with putty in panes of various sizes	8	SM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
C	General surfaces internally	12	SM		
D	Ditto externally	12	SM		
	<u>Supply and fix the following ironmongery with matching screws as Union Catalogue or other equal and approved</u>				
E	5-Lever mortice dead lock cat No. 2101 complete with approved lock furniture	4	NO		
F	38mm diameter x 59mm deep rubber door stop ref No. 8400	7	NO		
G	100mm pairs stainless steel double action spring hinges	24	Prs		
H	100mm pairs brass butt hinges	18	Prs		
I	Overhead door closer ; cat. No. 8823	3	NO		
J	Three lever rebated mortice lock complete with furniture	6	NO		
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>INTERNAL DOORS</u>				
	<u>Flush doors</u>				
A	45 x 1200x 2700mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	6	NO		
B	45 x 900 x 2700mm high single leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	5	NO		
C	45 x 900 x 2100mm high solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	7	NO		
	<u>Wrot Mahogany to door frames and finishings</u>				
D	150 x 50mm frame with 3 labours	108	LM		
E	150 x 50mm transome with 4 labours	20	LM		
F	15 x 40mm moulded architrave	108	LM		
G	25mm diameter moulded quadrant	108	LM		
H	4mm thick clear sheet glass and glazing with beads in panes between 0.15m and 0.5m	5	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
I	Surfaces not exceeding 100mm girth	108	LM		
J	Surfaces exceeding 100mm but not exceeding 200mm girth	112	LM		
K	General surfaces	84	SM		
L	3 lever mortice lock,with polished brass lever furniture and including all other necessary furniture.	12	NO		
M	Aluminium kicking plate,1150×500mm.	12	NO		
N	Aluminium kicking plate,850×500mm.	10	NO		
P	Floor spring double action Ref. Yale 913.02 90° S.O	6	NO		
	ELEMENT NO. 5				
	DOORS				
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<i>The following in purpose made steel casement windows in heavy duty 'T' and 'Z' section frame including mullions, transomes in-built mosquito proof gauze permanent vents hood with at top, high quality heavy duty polished brass ironmongery to M/s Kensmetal Ltd or other equal and approved fasteners, window stays, fixing lags, and apply primer before fixing (small panel windows) <u>with intergrated burglar proofing in tubes welded horizontally and vertically in line with opening light casement, transomes and mullions (m/s)</u></i>				
A.	1500 x 1800mm high comprising side hung, top hung and fixed lights to detail	5	NO		
B.	1500 x 900mm high ditto	4	NO		
C.	1500 x 1200mm high ditto	2	NO		
D.	1200 x 1200mm high ditto	1	NO		
E.	600 x 1200mm high ditto <u>Burglar proofing</u>	5	NO		
F.	Mild steel grille framed with 25x25x3mm thick RHS section including assembly and fixing to opening cutting and pinning lugs to concrete and bedding frame in cement and sand mortar (1:4) <u>Glazing</u>	28	SM		
G.	4mm clear sheet glass and glazing with putty in panes of various sizes	24	SM		
H.	Ditto obscure glass pane <u>Wrot prime grade cypress</u>	4	SM		
I.	150 x 150mm pelmet comprising 125 x 25mm thick top, 125 x 25mm fascia with 2No. Labours, 40 x 40mm wrot bearers, 2No. brass curtain rails, rollers ,stoppers, 125 x 125 x 25mm thick end brackets to detail	20	LM		
J.	125 x 25mm window board	20	LM		
K.	25mm quadrant <u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>	20	LM		
L.	General surfaces internally	28	SM		
M.	Ditto externally	28	SM		
N.	Burglar proofing	56	SM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
A.	12mm cement/sand (1:4) render to columns and ring beams	36	SM		
B.	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows	46	LM		
C.	12mm thick cement/sand render to plinth	30	SM		
	<u>Internal Wall Finishes</u>				
	<u>Cement, lime, sand plaster</u>				
D.	12mm cement/lime/sand (1:1:6) fine plaster to walls and beams internally	581	SM		
E	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows	46	LM		
F	20mm cement/sand (1:4) render to receive ceramic tiles	90	SM		
	<u>Glazed wall tiles to manufacturer</u>				
G	250 x 250x6mm thick patterned glazed wall tiles fixed with adhesive to rendered surfaces (m/s) with and including rounded plastic edge tiles (2100mm high)	90	SM		
H	Extra over for 75 mm wide decorative band	19	LM		
	<u>Floor Finishes</u>				
	<u>Cement/sand (1:4) screed</u>				
J	20mm thick to receive ceramic tiles	225	SM		
	<u>Ceramic floor tile</u>				
K	100 x 20mm skirting	122	LM		
L	330 x 330x6mm fixed onto prepared screed (m/s) with manufacturer's approved adhesive	225	SM		
	<u>Terrazzo floor tile</u>				
M	15mm thick cement and sand (1:4) screed wood floated to receive terazzo (m/s)	120	SM		
N	25mm Terrazzo: first coat of cement and sand (1:3); second of cement and local marble chippings (1:2); machine polished smooth	120	SM		
P	20 x 100 mm high skirting with rounded top edge and coved at junction to paving	115	LM		
Q	Plastic dividing strip	120	LM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u> <u>Externally</u> <u>Prepare and apply undercoats and three coats plastic emulsion paint to:</u> A. Plastered external columns, ringbeams 36 SM B. Plastered niches and reveals not exceeding 300mm wide 46 LM <u>Internally</u> <u>Prepare and apply three coats silk vinyl paint to</u> C. Plastered walls and concrete surfaces 581 SM <u>Prepare and apply three coats plastic emulsion paint to:-</u> D. Chipboard ceiling 245 SM <u>Prime back of wood before fixing</u> E. Surfaces not exceeding 100mm girth (cornice) 280 LM <u>Prepare and apply primer two undercoats and one gloss oil finishing coat to wood</u> F. Surfaces not exceeding 100mm girth (cornice) 280 LM <u>Prepare and apply two coats black bituminous paint to:</u> G. Rendered plinth externally 20 SM				
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u>	<u>TOTAL CARRIED TO SUMMARY</u>			

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 10</u> <u>Builder's Work</u> The contractor shall here allow all builder's work in connection with Electrical and Mechanical Engineering Installation The builders work shall include but not limited to a) Chases in wall, concrete work, and make good b) Forming, making or leaving holes, etc. in masonry concrete or wood work c) Making good all disturbed area d) Excavations refill and disposal of spoil <u>Electrical Work</u> A. Allow for all builder's work in connection with Electrical Engineering Installations <u>Mechanical Engineering</u> B. Allow for all builder's work in connection with Mechanical Engineering Installations				
	<u>ELEMENT NO. 10</u> <u>BUILDER'S WORK</u>				
	<u>TOTAL CARRIED TO</u> <u>SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	<u>ELEMENT</u>				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE CONCRETE				
3	WALLING				
4	ROOF				
5	DOORS				
6	WINDOWS				
7	FINISHES				
8	PAINTING AND DECORATING				
9	FITTINGS AND FIXTURES				
10	BUILDER'S WORK				
	<u>TOTAL CARRIED TO</u>				
	TWIN THEATRE				
	GRAND SUMMARY				

TWIN THEATRE PLUMBING & DRAINAGE WORKS					
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A.	<u>Sanitary fittings</u> Supply and fix the following sanitary appliances complete with all the accessories including connections to services, wastes, jointing to supply, over flows and all plugging and screwing to walls and floors. All to be as Twyfords Oriental or approved equivalent <u>Water closet</u> Low level wash down WC suite as Twyfords ‘CLASSIC’ comprising of the following:- - WC bowl bottom outlet Ref. No. CC 1138 WH. - Low level 7.5 litres cistern and fittings. - Side inlet and overflow Ref. No. 284WH. - Heavy duty black seat and cover. The suite to be supplied complete with valves, cistern fittings including siphon ½’’ side inlet, ball valve, ¼’’ side overflow plastic flush bend, inlet connection and reversible chrome plated cistern lever and cistern support.	2	No.		
	<u>Wash hand basin</u> Wash hand basin size 560x405mm, of the well fixing type, with one tap hole and chain stay hole. To be complete with all baskets, chrome plated 15mm approved pillar trap, plastic 32mm diameter bottle trap with 75mm Seal, chain waste and a set of fixing brackets. The wash hand basin to be as Twyfords classic and taps as Twyfords Amazon or approved equivalents				
	<u>Shower fitting</u> Concealed shower mixer for hot and cold water consisting of 15mm chrome plated riser pipe to connect the water to a swivel/ adjustable shower rose, chrome plated handles and stop corks and other Necessary fittings & accessories. All to be as Bricon/aztec or equal and approved.				
	Sub-Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A.	<u>Toilet Roll Holder</u> Standard stainless steel toilet roll holder to approval	2	No.		
B.	<u>Mirrors</u> 6mm thick polished plat glass, silver backed mirror with beveled edges, size 610x457 plugged and screwed to wall with 4 No. chrome plated dome capped screws and 5mm thick foam back rest	2	No.		
C	<u>LIQUID SOAP DISPENSER.</u> Liquid soap dispenser white in colour, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, Locks and key complete with initial fill of soap gel. The soap dispenser to be as ‘Zalpon’s mark 7’ size 125x100x290mm high or approved equivalent.	2	No		
D	<u>Kitchen Sink</u> Supply and fix single bowl single drain stainless steel kitchen sink complete with all necessary accessories such as wastes, pillar tap, etc	1	No		
E	Stainless steel vecta scrub-up trough (S.U.H 1/2/3) complete with all necessary accessories such as Wastes, 2No. Elbow action stainless steel taps.	1	No		
F	Approved caldon hopper, sink & drainer or equal and approved equivalent complete with all necessary accessories such as wastes, elbow action stainless steel taps, etc	1	No		
	Sub-Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Internal plumbing (All Provisional)</u> Supply, deliver and install polypropylene Random (PP-r) PN-20 Oxy-stable pipe work To DIN 8077. Pipe jointing shall be by Polyfusion or use of electric coupling. Tenderer must allow for jointing, clippings, couplings, metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, Crossovers etc. Where pipe work is not chased proper anchoring using approved fixtures shall be done No. pipe work shall be Left exposed to the sun.				
	<u>Pipework</u>				
A.	25mm diameter PPR pipe	80	LM		
B.	20mm diameter ditto	65	LM		
	<u>Extra over pipe fittings</u>				
C.	20mm diameter bends				
D.	25mm diameter ditto	20	NO		
E.	20x1 5x1 5mm diameter tee	10	NO		
F.	25x20x1 5mm ditto	15	NO		
G.	20mm diameter gate valves	4	NO		
H.	25mm ditto	4	NO		
I.	20mm diameter sockets	2	NO		
J.	20mm diameter union	10	NO		
		1	NO		
K	100mm diameter plastic floor trap including bedding in floor	4	NO		
L	100mm plastic gully trap complete with building all round with concrete, bedding the trap and 50mm thick precast concrete cover.	4	NO		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	Water Storage Tank Supply, deliver and install vertical close end plastic moulded tank of capacity 920 litres (200 gallons) and diameter 1300 x 860mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, 32mm high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a timber platform and shall be as ROTO Model or approved equivalent.	2	No.		
B	50mm thick plastic waste pipe bedded in wall including cutting chases and making good.	20	LM		
C	50mm diameter plastic waste pipe laid in trenches including excavating and filling back the soil.	20	LM		
D	600x600x1000mm manhole complete with benching and standard cast iron cover	6	NO		
E	Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.		Item		
F	Construct water tank masonry base diameter 2000mm and 300mm above general ground level. The base should have 200mm thick foundation footing, 200mm thick foundation wall including along diameter, 300mm thick hardcore layer and 150mm thick floor slab reinforced with y8 at 200mm centres both ways.		Item		
G	3,000 litres plastic tank UPVC cylindrical as roto or equal and approved.	1	No		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Internal Drainage (Provisional)</u> Supply, deliver and fix the following in UPVC soil and wastage system to BS 4514 and 5225 with fittings fixed in accordance to the manufacturer's printed instructions and BS 5572 and manufactured by "KEY TERRAIN" as described. All UPVC branches, tees, reducing etc are to be formed in accordance to the manufacturer's printed instruction. The installations to have the various sizes of connectors, adaptors, sockets, reducers hold bats, clips etc as required for satisfactory functions. <u>Drainage Pipework and Fittings.</u> A. 150mm diameter golden brown UPVC Pipes pipe laid in trenches including excavating and filling back the soil. B. Ditto 100mm diameter grey pipes C. Ditto 50mm diameter waste pipes D. Ditto 40mm diameter waste pipes E. Ditto 100mm diameter bends F. Ditto 50mm diameter bends G. Ditto 40mm diameter bends H. 100mm vent cap I. 40mm tee J. 50mm tee				
	Total carried to collection				

Plumbing & Drainage Collection Page

Total from page 1.....

Total from page 2

Total from page 3

Total from page 4.....

Total from page 5.....

Total from page 6.....

Total carried to summary

PROPOSED ELECTRICAL WORKS FOR TWIN THEATRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELECTRICAL WORKS				
	supply, install, test and commission the following:				
	<u>LIGHTING POINTS</u>				
A	Lighting point wired in 3 x 1.5mm ² SC-PVC-Cu cables drawn in 20mm diameter HG PVC conduits on concealed in wall plaster and complete with all necessary accessories excluding switches and fittings for:-				
	i) One way switching.	no	20		
	ii) two way switching	no	10		
B	10A moulded ivory switch plates as MK or approved equivalent as follows:				
	i) One gang two way.	no	15		
	ii) Two gang two way.	no	1		
	iii) Three gang two way.	no	2		
	<u>LIGHTING FITTINGS</u>				
	Light fittings complete with fixing accessories and lamps as follows:-				
C	18W LED square surface downlighters as Thorn MK approved OR equivalent	no	9		
D	600mm 1x18W ditto	no	3		
E	600mm square formula one diffuse version c/w 2x40W 78 poly lux 3500 u-tube and opal diffuser surface mounted	no.	6		
	Total to collection				

PROPOSED ELECTRICAL WORKS FOR TWIN THEATRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	100A Escort bulk head fitting as Thorn or approved equivalent,	no.	6		
B	Bowl fitting as ditto	no.	4		
C	2x36W, 1200mm general purpose low glare recessed louvre fluorescent fitting	no.	2		
	<u>Three phase power point</u>				
D	Power point wired in 5x10.0mm ² SC-PVC cables drawn in 32mm heavy gauge conduit concealed including all conduit accessories.	no	2		
E	100A DOL starter as Havell's make or approved equivalent	no	2		
	Power point.				
F	Power point wired in 3 x 2.5mm ² SC-PVC-Cu cables drawn in 20mm diameter HG PVC conduits on concealed complete with all necessary accessories excluding sockets.	no.	9		
G	13A twin switched socket as MK or approved equivalent	no.	9		
	Water Boiler point				
H	Electric boiler point wired in 3x6.0mm ² PVC single cables drawn in 25mm diameter concealed PVC heavy gauge conduits	no	1		
	<i>total carried to collection</i>				

PROPOSED ELECTRICAL WORKS FOR TWIN THEATRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	45A DP water heater switch as MK range or approved equiuvalent	no.	1		
	Water heating .				
B	Cooker socket outlet point wired in 3x4.0mm ² PVC single cables drawn in 25mm diameter concealed PVC heavy gauge conduits including all conduit accessories	no.	2		
C	45A water heater switch as MK range or approved equivalent.	no	2		
D	240V 4000W water heater shower as Rolenzetti or approved equivalent.	no	2		
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
E	6-way SP/N consumer unit surface mounted on wall complete with a 100A SP/N integral isolator as HAVELL'S or approved equivalent	no	1		
F	Single pole Miniature Circuit Breakers to fit into the above consumer unit as follows:				
	(i) 6A SP	no	1		
	(ii) 30A SP	no	1		
	(iii) 45A SP	no	2		
	(iii) Spareway	no	2		
	Total carried to collection				

PROPOSED ELECTRICAL WORKS FOR TWIN THEATRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SUB-MAINS CABLES</u>				
A	5x16.0mm ² single-Core copper cables drawn inside 25mm PVC HG conduits	m	5		
B	16.0mm ² four core PVC/SWA armoured underground cable to extend power from the power house to the looping box.	M	15		
	DISTRIBUTION BOARD				
	Distribution board				
C	100A six way TPN distribution board as crabtre or approved equivalent	no	1		
D	100A TPN switch fuse as MEM or approved equivalent	no	2		
	Mccbs as above				
E	63A mccb	no	3		
	<u>THEATRE OPERATION LAMP</u>				
G	Isolated lighting point wired in 3x2.5mm ² SC-PVC cable drawn in 20mm heavy gauge PVC conduit concealed including all conduit accessories	no	2		
H	Un-interrupted standby backup 240v/24V back up to feed operation theatre lamp	no	2		
I	10A switch as MK range or approved equivalent	no	2		
	Total to collection				

PROPOSED ELECTRICAL WORKS FOR TWIN THEATRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	THEATRE OPERATION LAMP				
A	Supply, install and commision surgical operation 12No. Selection PL3 LED fresnels (advanced and fixed) RGBW light with no ifrared and ultra violet radiation, low power consumption with long life LED bulbs that include flexibly supply of auxillary light source for laparoscopic operations and less air resistance to arrival of purified air. Have digital controlwith brighting options and automatic memory, high performace bodies and sterilization handle that is detachable for disifection and sterlization after operation.	no	2		
B	Allow for supply installation and commisioning of AC air conditioner including all electrical works	item	2		
C	Standard looping box made in gauge 14swg galvanized steel sheet complete with 100A four cut out fuse and cable glands.	no	1		
D	Electrical earthing comprising 10.0mm2 single-Core copper cables drawn inside HG conduits, 1500mm by 15mm diameter copper electrode with clamp and a pre-cast concrete inspection pit with cover.	no	1		
	Total to collection				

PROPOSED ELECTRICAL WORKS FOR TWIN THEATRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>COLLECTION</u>				
A	Collection from page 1				
B	Collection from page 2				
C	Collection from page 3				
D	Collection from page 4				
E	Collection from page 5				
	Total to collection				

THEATRE SUMMARY PAGE

	TOTAL	
Total For Theatre Builders Works from page 16		
Total For Theatre Plumbing Works from page 7		
Total For Theatre Electrical Works from page TT/6		
Allow a sum for project Management		150,000
TOTAL FOR THEATRE WORKS CARRIED TO GRAND SUMMARY		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>RADIOLOGY CENTRE BUILDERS WORKS</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURE (All Provisional)</u> <u>Excavation and Earthworks</u> Note: Include Plunking and strutting and keeping excavation free of water in earth work rates A. Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed 165 SM B. Excavate oversite averaging 300mm deep and cart away 165 SM C. Excavate foundation trench not exceeding 1.50 metres deep starting from reduced level 46 CM D. Excavate for column bases ditto 10 CM E. Extra over for excavating in rock irrespective of depth 46 CM F. Return fill and ram selected excavated materials around foundations 52 CM G. Load and cart away excess excavations as directed 48 CM <u>Filling</u> H. 300mm thick hand packed hardcore filling rolled and compacted in layers not exceeding 150mm thick 165 SM I. 50mm thick murrum blinding 165 SM J. Treat surface of hardcore with "Termidor" insecticide to manufacturers specification and provide 10 years guarantee certificate 165 SM K. 1000 gauge polythene sheet damp proof membrane on blinded hardcore 165 SM				
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>Concrete Works</u>				
	<u>Mass concrete class 15/20</u>				
A.	50mm blinding strip foundation and column bases	67	SM		
	<u>Vibrated reinforced concrete class 20/20 in:-</u>				
B.	150mm thick floor slab	165	SM		
C.	Column and column bases	2	CM		
D.	Strip foundation	12	CM		
	<u>High tensile steel reinforcement bars to BS 4461</u>				
E.	D10 and D8 reinforcements to Engineer's details	522	KG		
	<u>Fabric mesh</u>				
F.	Fabric mesh Ref. No. A142 (measured net) (No allowance for laps)	165	SM		
	<u>Sawn formwork to:</u>				
G.	Sides of strip foundation	40	SM		
H.	Sides of columns, column bases and steps	18	SM		
I.	Edges of slab between 75mm and 150mm high	52	LM		
	<u>Natural stone wall bedded and jointed in cement/sand (1:3) mortar reinforced with 40mm hoop iron every alternate course</u>				
J.	200mm thick	155	SM		
	<u>Three ply hessian based bituminous felt horizontal damp proof course to BS 743 ,Type A weighing 3.8kg/m² bedded on cement/sand (1:3) mortar</u>				
K.	300mm wide	17	LM		
L.	250mm wide	3	LM		
M.	200mm wide	53	LM		
N.	150mm wide	3	LM		
O.	100mm wide	6	LM		
	<u>PCC SLAB PAVING</u>				
P.	50mm thick pcc slab paving on and including 50mm thick sand bed	63	SM		
Q.	300mm wide U-shaped open drain sloped appropriately and jointed in mortar	25	LM		
	ELEMENT NO. 1	TOTAL CARRIED			
	SUBSTRUCTURE	TO SUMMARY			

[illegible]

[illegible]

[illegible]

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>EXTERNAL DOORS</u>				
A	Glazed 1200x 2700mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 45 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No. heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1200x150mm, apply red oxide primer before fixing	1	NO		
	<u>Glazing</u>				
B	4mm clear sheet glass and glazing with putty in panes of various sizes	2	SM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
C	General surfaces internally	3	SM		
D	Ditto externally	3	SM		
	<u>Supply and fix the following ironmongery with matching screws as Union Catalogue or other equal and approved</u>				
E	5-Lever mortice dead lock cat No. 2101 complete with approved lock furniture	1	NO		
F	38mm diameter x 59mm deep rubber door stop ref No. 8400	2	NO		
	<u>INTERNAL DOORS (Flush doors)</u>				
G	45 x 1200x 2700mm high double leaf solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	1	NO		
H	45 x 900 x 2700mm high single leaf solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hidges	9	NO		
I	Supply and fix double lead door overall size 900 x 2100 mm high consisting one openable leaf comprising of 100 x 50 x 5 mm thick rectangular hollow section frame, 3 mm thick lead; clad in 1.5 mm thick mild steel plates both sides; complete with purpose made heavy duty hinges and one coat of red oxide primer	1	NO		
	<u>Wrot Mahogany to door frames and finishings</u>				
J	150 x 50mm frame with 3 labours	64	LM		
K	150 x 50mm transome with 4 labours	11	LM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<i>The following in purpose made steel casement windows in heavy duty 'T' and 'Z' section frame including mullions, transomes in-built mosquito proof gauze permanent vents hood with at top, high quality heavy duty polished brass ironmongery to M/s Kensmetal Ltd or other equal and approved fasteners, window stays, fixing lags, and apply primer before fixing (small panel windows) with intergrated burglar proofing in tubes welded horizontally and vertically in line with opening light casement, transomes and mullions (m/s)</i>				
A.	1500 x 1800mm high comprising side hung, top hung and fixed lights to detail	7	NO		
B.	600 x 900mm high ditto	2	NO		
C.	600 x 1500mm high ditto	1	NO		
D.	600 x 500mm high ditto <u>Burglar proofing</u>	7	NO		
E.	Mild steel grille framed with 25x25x3mm thick RHS section including assembly and fixing to opening cutting and pinning lugs to concrete and bedding frame in cement and sand mortar (1:4)	22	SM		
	<u>Glazing</u>				
F.	4mm clear sheet glass and glazing with putty in panes of various sizes	19	SM		
G.	Ditto obscure glass pane	1	SM		
H.	Glazing, 20mm thick anti-radiation glass.	1	SM		
	<u>Wrot prime grade cypress</u>				
I.	150 x 150mm pelmet comprising 125 x 25mm thick top, 125 x 25mm fascia with 2No. labours, 40 x 40mm wrot bearers, 2No. brass curtain rails, rollers, stoppers, 125 x 125 x 25mm thick end brackets to detail	15	LM		
J.	125 x 25mm window board	15	LM		
K.	25mm quadrant	15	LM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
L.	General surfaces internally	20	SM		
M.	Ditto externally	20	SM		
N.	Burglar proofing	44	SM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
A.	12mm cement/sand (1:4) render to columns and beams and gable walls	55	SM		
B.	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows	31	LM		
C.	12mm thick cement/sand render to plinth	15	SM		
	<u>Internal Wall Finishes</u>				
	<u>Cement, lime, sand plaster</u>				
D.	12mm cement/lime/sand (1:1:6) fine plaster to walls and beams internally	418	SM		
E	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows	31	LM		
F	10mm cement/sand (1:4) render to receive ceramic tiles	41	SM		
	<u>Glazed wall tiles to manufacturer</u>				
G	250 x 250x6mm thick patterned glazed wall tiles fixed with adhesive to rendered surfaces (m/s) with and including rounded plastic edge tiles (2100mm high)	41	SM		
H	Extra over for 75 mm wide decorative band	15	LM		
	<u>Floor Finishes</u>				
	<u>Cement/sand (1:4) screed</u>				
J	20mm thick to receive ceramic tiles	165	SM		
	<u>Ceramic floor tile</u>				
K	100 x 20mm skirting	130	LM		
	<u>Ceramic floor tiles to Manufacture cut and laid in approved pattern to Architect's letter detail</u>				
L	330 x 330x6mm fixed onto prepared screed (m/s) with manufacturer's approved adhesive	165	SM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u> <u>Externally</u> <u>Prepare and apply undercoats and three coats plastic emulsion paint to:</u> A. Plastered external columns,ring beams and gable walls 55 SM B. Plastered niches and reveals not exceeding 300mm wide 31 LM <u>Internally</u> <u>Prepare and apply three coats silk vinyl paint to</u> C. Plastered walls and concrete surfaces 418 SM <u>Prepare and apply three coats plastic emulsion paint to:-</u> D. Chip-board ceiling 165 SM <u>Prime back of wood before fixing</u> E. Surfaces not exceeding 100mm girth (cornice) 144 LM <u>Prepare and apply primer two undercoats and one gloss oil finishing coat to wood</u> G. Surfaces not exceeding 100mm girth (cornice) 144 LM <u>Prepare and apply two coats black bituminous paint to:</u> H. Rendered plinth externally 15 SM				
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u>	<u>TOTAL CARRIED TO SUMMARY</u>			

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 10</u> <u>Builder's Work</u> The contractor shall here allow all builder's work in connection with Electrical and Mechanical Engineering Installation The builders work shall include but not limited to a) Chases in wall, concrete work, and make good b) Forming, making or leaving holes, etc. in masonry concrete or wood work c) Making good all disturbed area d) Excavations refill and disposal of spoil <u>Electrical Work</u> A. Allow Kshs 50,000 for all builder's work in connection with Electrical Engineering Installations <u>Mechanical Engineering</u> B. Allow Kshs 50,000 for all builder's work in connection with Mechanical Engineering Installations				
	<u>ELEMENT NO. 10</u> <u>BUILDER'S WORK</u>				
	<u>TOTAL CARRIED TO</u> <u>SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	<u>ELEMENT</u>				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE CONCRETE				
3	WALLING				
4	ROOF				
5	DOORS				
6	WINDOWS				
7	FINISHES				
8	PAINTING AND DECORATING				
9	FITTINGS AND FIXTURES				
10	BUILDER'S WORK				
	TOTAL CARRIED TO				
	RADIOLOGY CENTRE				
	GRAND SUMMARY				

RADIOLOGY CENTRE PLUMBING & DRAINAGE WORKS					
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A.	<u>Sanitary fittings</u> Supply and fix the following sanitary appliances complete with all the accessories including connections to services, wastes, jointing to supply, over flows and all plugging and screwing to walls and floors. All to be as Twyfords Oriental or approved equivalent	2	No.		
	<u>Water closet</u> Low level wash down WC suite as Twyfords ‘CLASSIC’ comprising of the following:- - WC bowl bottom outlet Ref. No. CC 1138 WH. - Low level 7.5 litres cistern and fittings. - Side inlet and overflow Ref. No. 284WH. - Heavy duty black seat and cover. The suite to be supplied complete with valves, cistern fittings including siphon ½’’ side inlet, ball valve, ¼’’ side overflow plastic flush bend, inlet connection and reversible chrome plated cistern lever and cistern support.				
B.	<u>Wash hand basin</u> Wash hand basin size 560x405mm, of the well fixing type, with one tap hole and chain stay hole. To be complete with all baskets, chrome plated 15mm approved pillar trap, plastic 32mm diameter bottle trap with 75mm Seal, chain waste and a set of fixing brackets. The wash hand basin to be as Twyford classic and taps as Twyford Amazon or approved equivalents	2	No.		
	Sub-Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A.	<u>Toilet Roll Holder</u> Standard stainless steel toilet roll holder to approval	2	No.		
B.	<u>Mirrors</u> 6mm thick polished plat glass, silver backed mirror with beveled edges, size 610x457 plugged and screwed to wall with 4 No. chrome plated dome capped screws and 5mm thick foam back rest	2	No.		
C	<u>LIQUID SOAP DISPENSER.</u> Liquid soap dispenser white in colour, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, locks and key complete with initial fill of soap gel. The soap dispenser to be as ‘Zalpon’s mark 7’ size 125x100x290mm high or approved equivalent.	2	No		
	Sub-Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Internal plumbing (All Provisional)</u> Supply, deliver and install polypropylene Random (PP-r) PN-20 Oxy-stable pipe work to DIN 8077. Pipe jointing shall be by polyfusion or use of electric coupling. Tenderer must allow for jointings, clippings, couplings, metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers e.t.c. Where pipe work is not chased proper anchoring using approved fixtures shall be done No. pipe work shall be left exposed to the sun.				
A.	<u>Pipework</u> 25mm diameter PPR pipe	40	LM		
B.	20mm diameter ditto	30	LM		
	<u>Extra over pipe fittings</u>				
C.	20mm diameter bends				
D.	25mm diameter ditto	10	NO		
E.	20x1 5x1 5mm diameter tee	5	NO		
F.	25x20x1 5mm ditto	8	NO		
G.	20mm diameter gate valves	2	NO		
H.	25mm ditto	2	NO		
I.	20mm diameter sockets	2	NO		
J.	20mm diameter union	5	NO		
		1	NO		
K	100mm diameter plastic floor trap including bedding in floor	2	NO		
L	100mm plastic gully trap complete with building all round with concrete, bedding the trap and 50mm thick precast concrete cover.	2	NO		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	Water Storage Tank Supply, deliver and install vertical close end plastic moulded tank of capacity 920 litres (200 gallons) and diameter 1300 x 860mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, 32mm high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a timber platform and shall be as ROTO Model or approved equivalent.	1	No.		
B	50mm thick plastic waste pipe bedded in wall including cutting chases and making good.	10	LM		
C	50mm diameter plastic waste pipe laid in trenches including excavating and filling back the soil.	10	LM		
D	600x600x1000mm manhole complete with benching and standard cast iron cover	3	NO		
E	Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.		Item		
F	Construct water tank masonry base diameter 2000mm and 300mm above general ground level. The base should have 200mm thick foundation footing, 200mm thick foundation wall including along diameter, 300mm thick hardcore layer and 150mm thick floor slab reinforced with y8 at 200mm centres both ways.		Item		
G	3,000 litres plastic tank UPVC cylindrical as roto or equal and approved.	1	No		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Internal Drainage (Provisional)</u> Supply, deliver and fix the following in UPVC soil and wastage system to BS 4514 and 5225 with fittings fixed in accordance to the manufacturer's printed instructions and BS 5572 and manufactured by "KEY TERRAIN" as described. All UPVC branches, tees, reducing etc are to be formed in accordance to the manufacturer's printed instruction. The installations to have the various sizes of connectors, adaptors, sockets, reducers hold bats, clips etc as required for satisfactory functions. <u>Drainage Pipework and Fittings.</u> A. 150mm diameter golden brown UPVC Pipes pipe laid in trenches including excavating and filling back the soil. B. Ditto 100mm diameter grey pipes C. Ditto 50mm diameter waste pipes D. Ditto 40mm diameter waste pipes E. Ditto 100mm diameter bends F. Ditto 50mm diameter bends G. Ditto 40mm diameter bends H. 100mm vent cap I. 40mm tee J. 50mm tee				
	Total carried to collection				

[illegible]

Plumbing & Drainage Collection Page

Total from page 1.....

Total from page 2

Total from page 3

Total from page 4.....

Total from page 5.....

Total from page 6.....

Total carried to summary

PROPOSED ELECTRICAL WORKS FOR RADIOLOGY CENTRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELECTRICAL WORKS				
	supply, install, test and commission the following:				
	<u>LIGHTING POINTS</u>				
A	Lighting point wired in 3 x 1.5mm ² SC-PVC-Cu cables drawn in 20mm diameter HG PVC conduits on concealed in wall plaster and complete with all necessary accessories excluding switches and fittings for:- i) one way switching.	no	19		
B	10A moulded ivory switch plates as MK or approved equivalent as follows: i) One gang two way. ii) Two gang two way.	no no	7 3		
	<u>LIGHTING FITTINGS</u>				
	Light fittings complete with fixing accessories and lamps as follows:-				
C	18W LED square surface downlighters Thorn Popular Pack Batten. Or Approved equivalent.	no	5		
D	600mm 1x18W ditto	no	2		
E	1200mm 2 x 36w ditto.	no.	1		
	Total to collection				

PROPOSED ELECTRICAL WORKS FOR RADIOLOGY CENTRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	100A Escort bulk head fitting as Thorn or approved equivalent,	no.	5		
B	Bowl fitting as ditto	no.	4		
	<u>Viewing point.</u>				
C	Viewing circuit wired in 3x1.5mm ² SC-PVC-Cu cables drawn in 20mm diameter HG PVC conduits on concealed in wall plaster and complete with all necessary accessories excluding Switches.	no	2		
D	5A switch as MK or approved equivalent	no.	2		
E	Convectional viewing panel size 600x450mm comprising 2no. 1x18W fluorescent fitting and clear screen	no	2		
	<u>Power point</u>				
F	Power point wired in 3 x 2.5mm ² SC-PVC-Cu cables drawn in 20mm diameter HG PVC conduits on concealed complete with all necessary accessories Excluding sockets.	no.	8		
G	13A twin switched socket as MK or approved equivalent	no.	8		
	<u>Three phase power point</u>				
	Power point wired in 5x10.0mm ² SC-PVC cables drawn in 32mm heavy gauge conduit concealed including all conduit Accessories.	no	2		
	<i>total carried to collection</i>				

PROPOSED ELECTRICAL WORKS FOR RADIOLOGY CENTRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	100A DOL starter as Havell's make or approved equivalent	no	2		
	POWER DISTRIBUTION AND CONTROLS.				
B	Distribution board 100A six way TPN distribution board as crabtree or approved equivalent	no	1		
C	100A TPN switch fuse as MEM or approved equivalent	no	3		
	Mccbbs as above				
D	63A mccb	no.	3		
	<u>CONSUMER UNITS/DISTRIBUTION BOARDS</u>				
E	4-way SP/N consumer unit surface mounted on wall complete with a 100A SP/N integral isolator as HAVELL'S or approved equivalent	no	1		
F	Single pole Miniature Circuit Breakers to fit into the above consumer unit as follows:				
	(i) 6A SP	no	1		
	(ii) 30A SP	no	1		
	(iii) Spareway	no	2		
	Total carried to collection				

PROPOSED ELECTRICAL WORKS FOR RADIOLOGY CENTRE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SUB-MAINS CABLES</u>				
A	5x16.0mm ² single-Core copper cables drawn inside 25mm PVC HG conduits	m	8		
B	16.0mm ² four core PVC/SWA armoured underground cable to extend power from the power house to the looping box.	m	20		
C	Standard looping box made in gauge 14swg galvanized steel sheet complete with 100A four cut out fuse and cable glands.	no	1		
D	Electrical earthing comprising 10.0mm ² single-Core copper cables drawn inside HG conduits, 1500mm by 15mm diameter copper electrode with clamp and a pre-cast concrete inspection pit with cover.	no	1		
	Total to collection				
	<u>COLLECTION</u>				
A	from page 1				
B	from page 2				
C	from page 3				
D	from above.				
	Total to summary for imaging centre				

RADIOLOGY SUMMARY PAGE

	TOTAL	
Total For Radiology Builders Works from page 16		
Total For Radiology Plumbing Works from page 7		
Total For Radiology Electrical Works from page RC/4		
Allow a sum for Project Management		100,000
TOTAL FOR WORKS RADIOLOGY CARRIED TO GRAND SUMMARY		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>MORTUARY BUILDERS WORKS</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURE (All Provisional)</u> <u>Excavation and Earthworks</u> Note: Include Plunking and strutting and keeping excavation free of water in earth work rates A. Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed 230 SM B. Excavate oversite averaging 300mm deep and cart away 217 SM C. Excavate foundation trench not exceeding 1.50 meters deep starting from reduced level 70 CM D. Excavate for column bases ditto 13 CM E. Extra over for excavating in rock irrespective of depth 70 CM F. Return fill and ram selected excavated materials around foundations 110 CM G. Load and cart away excess excavations as directed 42 CM <u>Filling</u> H. 400mm thick hand packed hardcore filling rolled and compacted in layers not exceeding 150mm thick 188 SM I. 50mm thick Murrum blinding 217 SM J. Treat surface of hardcore with "Termidor" insecticide to manufacturers specification and provide 10 years guarantee certificate 217 SM K. 1000 gauge polythene sheet damp proof membrane on blinded hardcore 217 SM				
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>Concrete Works</u>				
	<u>Mass concrete class 15/20</u>				
A.	50mm blinding strip foundation and column bases	150	SM		
	<u>Vibrated reinforced concrete class 20/20 in:-</u>				
B.	150mm thick floor slab	217	SM		
C.	Column and column bases	4	CM		
D.	Strip foundation	18	CM		
	<u>High tensile steel reinforcement bars to BS 4461</u>				
E.	D12, D10 and D8 reinforcements to Engineer's details	525	KG		
	<u>Fabric mesh</u>				
F.	Fabric mesh Ref. No. A142 (measured net) (No allowance for laps)	217	SM		
	<u>Sawn formwork to:</u>				
G.	Sides of strip foundation	30	SM		
H.	Sides of columns, column bases	38	SM		
I.	Edges of slab between 75mm and 150mm high	69	LM		
	<u>Natural stone wall bedded and jointed in cement/sand (1:3) mortar reinforced with 40mm hoop iron every alternate course</u>				
J.	200mm thick	214	SM		
	<u>Three ply hessian based bituminous felt horizontal damp proof course to BS 743 ,Type A weighing 3.8kg/m² bedded on cement/sand (1:3) mortar</u>				
K.	200mm wide	143	LM		
	<u>PCC SLAB PAVING</u>				
L.	50mm thick pcc slab paving on and including 50mm thick sand bed and 300mm thick hardcore	83	SM		
M.	300mm wide U-shaped open drain sloped appropriately and jointed in mortar	44	LM		
	ELEMENT NO. 1	TOTAL CARRIED			
	SUBSTRUCTURE	TO SUMMARY			

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u> <u>WALLING</u> <u>Fair dressed natural stone wall bedded and jointed in cement/sand (1:4) mortar (12mm joints) reinforced with 40mm hoop iron every alternate course</u> <u>External walls</u> A. 200mm thick 113 SM B. Extra over for key pointing in flush vertical and recessed horizontal joints 113 SM C. 100mm thick x 200mm high eaves closing 69 LM D. 200mm thick permanent vent blocks wall 10 SM <u>Internal walls</u> E. 150mm thick 67 SM F. 200mm thick 103 SM <u>Precast concrete class 25/12 units in:</u> G. 250 x 50mm (average) thick once weathered and throated window cill 24 LM				
	<u>ELEMENT NO. 3</u> WALLING	<u>TOTAL CARRIED</u> TO SUMMARY			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4</u>				
	<u>ROOF</u>				
	<u>Roof Covering</u>				
A.	Box profile GI sheeting gauge 28 resincot on timber framework	281	SM		
B.	Extra over for ridge and hip cap to match	55	LM		
C	Valley gutter 300mm girth	15	LM		
	<u>Supply and fix sawn celcured 2nd grade cypress with and including nailing or bolting, drilling for bolts</u>				
D	150 x 50mm rafters packing pieces	43	LM		
E	150 x 50mm hip rafters	165	LM		
F	150 x 50mm valley rafters	45	LM		
G	200 x 38mm ridge board	16	LM		
H	100 x 50mm wall plate bolted at 1000mm centres	69	LM		
I	75 x 50mm purlins	347	LM		
	<u>The following trusses in sawn celcured 2nd grade cypress with and including nailing/bolting, drilling holes</u>				
J	150 x 50mm rafters	219	LM		
K	150 x 50mm tie beam	190	LM		
L	100 x 50mm struts and ties	283	LM		
	<u>Eaves Finishes</u>				
	<u>Wrot celcured prime grade cypress in:</u>				
M	250 x 38mm fascia and barge board	75	LM		
N	100 x 25mm T&G eaves boarding nailed to battens (m/s)	42	SM		
O	50 x 50mm battens	207	LM		
P	25mm moulded quadrant	150	LM		
Q	50 x 150mm mosquito proofed slits eaves vents	4	NO		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>EXTERNAL DOORS</u>				
A	Glazed 1500x 2400mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1500x150mm, apply red oxide primer before fixing	2	NO		
B	Glazed 900x 2400mm high equal single leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 2 No. tower bolts, permanent ventilation size 900x150mm, apply red oxide primer before fixing	3	NO		
	<u>Glazing</u>				
C	4mm clear sheet glass and glazing with putty in panes of various sizes	7	SM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
D	General surfaces internally	14	SM		
E	Ditto externally	14	SM		
	<u>Supply and fix the following ironmongery with matching screws as Union Catalogue or other equal and approved</u>				
F	5-Lever mortice dead lock cat No. 2101 complete with approved lock furniture	5	NO		
G	38mm diameter x 59mm deep rubber door stop ref No. 8400	7	NO		
H	100mm pairs brass butt hinges	16	Prs		
I	Three lever rebated mortice lock complete with furniture	2	NO		
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>INTERNAL DOORS</u>				
	<u>Flush doors</u>				
A	45 x 1200x 2400mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	2	NO		
B	45 x 900 x 2400mm high single leaf solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hidges	4	NO		
C	45 x 900 x 2100mm high solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hidges	2	NO		
	<u>Wrot Mahogany to door frames and finishings</u>				
D	150 x 50mm frame with 3 labours	48	LM		
E	150 x 50mm transome with 4 labours	6	LM		
F	15 x 40mm moulded architrave	48	LM		
G	25mm diameter moulded quadrant	48	LM		
H	4mm thick clear sheet glass and glazing with beads in panes between 0.15m and 0.5sm	2	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
I	Surfaces not exceeding 100mm girth	35	LM		
J	Surfaces exceeding 100mm but not exceeding 200mm girth	40	LM		
K	General surfaces	36	SM		
L	3 lever mortice lock, with polished brass lever furniture and including all other necessary furniture.	6	NO		
M	Aluminium kicking plate,1150×500mm.	4	NO		
	ELEMENT NO. 5				
	DOORS				
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u> <u>WINDOWS</u> <u>The following in purpose made steel casement windows in heavy duty 'T' and 'Z' section frame including mullions, transomes in-built mosquito proof gauze permanent vents hood with at top, high quality heavy duty polished brass ironmongery to M/s Kensmetal Ltd or other equal and approved fasteners, window stays, fixing lags, and apply primer before fixing (small panel windows) with integrated burglar proofing in tubes welded horizontally and vertically in line with opening light casement, transomes and mullions (m/s)</u>				
A.	1500 x 1500mm high comprising side hung, top hung and fixed lights to detail	7	NO		
B.	1200 x 900mm high ditto	3	NO		
E	600 x 900mm high ditto <u>Burglar proofing</u>	8	NO		
F	Mild steel grille framed with 25x25x3mm thick RHS section including assembly and fixing to opening cutting and pinning lugs to concrete and bedding frame in cement and sand mortar (1:4)	24	SM		
	<u>Glazing</u>				
G	4mm clear sheet glass and glazing with putty in panes of various sizes	16	SM		
H	Ditto obscure glass pane	8	SM		
	<u>Wrot prime grade cypress</u>				
I	150 x 150mm pelmet comprising 125 x 25mm thick top, 125 x 25mm fascia with 2No. Labours, 40 x 40mm wrot bearers, 2No. brass curtain rails, rollers ,stoppers, 125 x 125 x 25mm thick end brackets to detail	24	LM		
J	125 x 25mm window board	24	LM		
K	25mm quadrant	24	LM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
L	General surfaces internally	24	SM		
M	Ditto externally	24	SM		
N	Burglar proofing	48	SM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
A.	12mm cement/sand (1:4) render to columns, buttresses and ring beams	55	SM		
B.	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows	75	LM		
C.	12mm thick cement/sand render to plinth	28	SM		
	<u>Internal Wall Finishes</u>				
	<u>Cement, lime, sand plaster</u>				
D.	12mm cement/lime/sand (1:1:6) fine plaster to walls and beams internally	415	SM		
E.	20mm cement/sand (1:4) render to receive ceramic tiles	81	SM		
	<u>Glazed wall tiles to manufacturer</u>				
F.	250 x 250x6mm thick patterned glazed wall tiles fixed with adhesive to rendered surfaces (m/s) with and including rounded plastic edge tiles (2100mm high)	81	SM		
G.	Extra over for 75 mm wide decorative band	30	LM		
	<u>Floor Finishes</u>				
	<u>Cement/sand (1:4) screed</u>				
H.	20mm thick to receive ceramic tiles	22	SM		
	<u>Ceramic floor tile</u>				
I.	100 x 20mm skirting	38	LM		
J.	330 x 330x6mm fixed onto prepared screed (m/s) with manufacturer's approved adhesive	22	SM		
	<u>Terrazzo floor tile</u>				
K.	15mm thick cement and sand (1:4) screed wood floated to receive terazzo (m/s)	166	SM		
L.	25mm Terrazzo: first coat of cement and sand (1:3); second of cement and local marble chippings (1:2); machine polished smooth	166	SM		
M.	20 x 100 mm high skirting with rounded top edge and coved at junction to paving	147	LM		
N.	Plastic dividing strip	200	LM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u> <u>Externally</u> <u>Prepare and apply undercoats and three coats plastic emulsion paint to:</u> A. Plastered external columns, buttresses,ringbeams 55 SM B. Plastered niches and reveals not exceeding 300mm wide 75 LM <u>Internally</u> <u>Prepare and apply three coats silk viny paint to</u> C. Plastered walls and cocrete surfaces 415 SM <u>Prepare and apply three coats plastic emulsion paint to:-</u> D. Chipboard ceiling 188 SM <u>Prime back of wood before fixing</u> E. Surfaces not exceeding 100mm girth (cornice) 185 LM <u>Prepare and apply primer two undercoats and one gloss oil finishing coat to wood</u> F. Surfaces not exceeding 100mm girth (cornice) 185 LM <u>Prepare and apply two coats black bituminous paint to:</u> G. Rendered plinth externally 28 SM				
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u>	<u>TOTAL CARRIED</u>	<u>TO SUMMARY</u>		

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 10</u> <u>Builder's Work</u> The contractor shall here allow all builder's work in connection with Electrical and Mechanical Engineering Installation The builders work shall include but not limited to a) Chases in wall, concrete work, and make good b) Forming, making or leaving holes, etc in masonry concrete or wood work c) Making good all disturbed area d) Excavations refill and disposal of spoil <u>Electrical Work</u> A. Allow for all builder's work in connection with Electrical Engineering Installations <u>Mechanical Engineering</u> B. Allow for all builder's work in connection with Mechanical Engineering Installations				
	<u>ELEMENT NO. 10</u> <u>BUILDER'S WORK</u>	<u>TOTAL CARRIED TO</u> <u>SUMMARY</u>			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	<u>ELEMENT</u>				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE CONCRETE				
3	WALLING				
4	ROOF				
5	DOORS				
6	WINDOWS				
7	FINISHES				
8	PAINTING AND DECORATING				
9	FITTINGS AND FIXTURES				
10	BUILDER'S WORK				
	<u>TOTAL CARRIED TO</u>				
	<u>MORTUARY</u> SUMMARY				

MORTUARY PLUMBING & DRAINAGE WORKS					
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A.	<u>Sanitary fittings</u> Supply and fix the following sanitary appliances complete with all the accessories including connections to services, wastes, jointing to supply , over flows and all plugging and screwing to walls and floors. All to be as Twyfords Oriental or approved equivalent <u>Water closet</u> Low level wash down WC suite as Twyfords ‘CLASSIC’ comprising of the following:- - WC bowl bottom outlet Ref. No. CC 1138 WH. - Low level 7.5 litres cistern and fittings. - Side inlet and overflow Ref. No. 284WH. - Heavy duty black seat and cover. The suite to be supplied complete with valves, cistern fittings including siphon ½’’ side inlet, ball valve, ¼’’ side overflow plastic flush bend, inlet connection and reversible chrome plated cistern lever and cistern support.	4	No.		
	<u>Wash hand basin</u> Wash hand basin size 560x405mm, of the well fixing type, with one tap hole and chain stay hole. To be complete with all baskets, chrome plated 15mm approved pillar trap, plastic 32mm diameter bottle trap with 75mm Seal, chain waste and a set of fixing brackets. The wash hand basin to be as Twyford classic and taps as Twyford Amazon or approved equivalents	6	No.		
	<u>Shower fitting</u> Concealed shower mixer for hot and cold water consisting of 15mm chrome plated riser pipe to connect the water to a swivel/ adjustable shower rose, chrome plated handles and stop corks and other Necessary fittings & accessories. All to be as Bricon/aztec or equal and approved.	4	No		
	Sub-Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A.	<u>Toilet Roll Holder</u> Standard stainless steel toilet roll holder to approval	6	No.		
B.	<u>Mirrors</u> 6mm thick polished plat glass, silver backed mirror with beveled edges, size 610x457 plugged and screwed to wall with 4 No. chrome plated dome capped screws and 5mm thick foam back rest	4	No.		
C	<u>LIQUID SOAP DISPENSER.</u> Liquid soap dispenser white in colour, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, locks and key complete with initial fill of soap gel. The soap dispenser to be as ‘Zalpon’s mark 7’ size 125x100x290mm high or approved equivalent.	6	No		
D	Approved caldon hopper, sink & drainer or equal and approved equivalent complete with all necessary accessories such as wastes, elbow action stainless steel taps, etc	1	No		
	Sub-Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Internal plumbing (All Provisional)</u> Supply, deliver and install polypropylene Random (PP-r) PN-20 Oxy-stable pipe work to DIN 8077. Pipe jointing shall be by polyfusion or use of electric coupling. Tenderer must allow for jointings, clippings, couplings, metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers e.t.c. Where pipe work is not chased proper anchoring using approved fixtures shall be done No. pipe work shall be left exposed to the sun.				
	<u>Pipework</u>				
A.	25mm diameter PPR pipe	100	LM		
B.	20mm diameter ditto	65	LM		
	<u>Extra over pipe fittings</u>				
C.	20mm diameter bends				
D.	25mm diameter ditto	40	NO		
E.	20x1 5x1 5mm diameter tee	10	NO		
F.	25x20x1 5mm ditto	15	NO		
G.	20mm diameter gate valves	4	NO		
H.	25mm ditto	4	NO		
I.	20mm diameter sockets	2	NO		
J.	20mm diameter union	10	NO		
		1	NO		
K	100mm diameter plastic floor trap including bedding in floor	6	NO		
L	100mm plastic gully trap complete with building all round with concrete, bedding the trap and 50mm thick precast concrete cover.	6	NO		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	Water Storage Tank Supply, deliver and install vertical close end plastic moulded tank of capacity 920 litres (200 gallons) and diameter 1300 x 860mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, 32mm high pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a timber platform and shall be as ROTO Model or approved equivalent.	4	No.		
B	50mm thick plastic waste pipe bedded in wall including cutting chases and making good.	50	LM		
C	50mm diameter plastic waste pipe laid in trenches including excavating and filling back the soil.	50	LM		
D	600x600x1000mm manhole complete with benching and standard cast iron cover	6	NO		
E	Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.		Item		
F	Construct water tank masonry base diameter 2000mm and 300mm above general ground level. The base should have 200mm thick foundation footing, 200mm thick foundation wall including along diameter, 300mm thick hardcore layer and 150mm thick floor slab reinforced with y8 at 200mm centres both ways.		Item		
G	5,000 litres plastic tank UPVC cylindrical as roto or equal and approved.	1	No		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Internal Drainage (Provisional)</u> Supply, deliver and fix the following in UPVC soil and wastage system to BS 4514 and 5225 with fittings fixed in accordance to the manufacturer's printed instructions and BS 5572 and manufactured by "KEY TERRAIN" as described. All UPVC branches, tees, reducing etc are to be formed in accordance to the manufacturer's printed instruction. The installations to have the various sizes of connectors, adaptors, sockets, reducers hold bats, clips etc as required for satisfactory functions. <u>Drainage Pipework and Fittings.</u>				
A.	150mm diameter golden brown UPVC Pipes pipe laid in trenches including excavating and filling back the soil.	50	LM		
B.	Ditto 100mm diameter grey pipes	30	LM		
C.	Ditto 50mm diameter waste pipes	15	LM		
D.	Ditto 40mm diameter waste pipes	30	LM		
E.	Ditto 100mm diameter bends	10	NO		
F	Ditto 50mm diameter bends	10	NO		
G	Ditto 40mm diameter bends	15	NO		
H	100mm vent cap	1	NO		
I	40mm tee	4	NO		
J	50mm tee	8	NO		
	Total carried to collection				

[illegible]

Plumbing & Drainage Collection Page

Total from page 1.....

Total from page 2

Total from page 3

Total from page 4.....

Total from page 5.....

Total from page 6.....

Total carried to summary

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>MORTUARY</u> <i>Supply, install, test and commission the following :-</i> <u>LIGHTING POINTS</u> A Lighting points wired in 1.5 mm² SC CU cables drawn in concealed 20mm diameter HG P.V.C conduits for:- a) one way switching NO 18 b) two way switching NO 4 <u>SWITCHES</u> B 10Amps, switch plate as CLIPSAL, MK or approved equivalent as a) one gang one way NO 10 b) two gang one way NO 2 c) one gang two way NO 2 <u>LIGHTING FITTINGS</u> C Lighting fittings complete with bulbs or tubes as follows: a) 1200mm, 1x 36 Watts batten fluorescent fitting as THORN or approved equivalent. NO 14 b) 60Watts, spherical screw neck ball fitting as THORN MTC 1060 or approved equivalent NO 2 c) 100 Watts, cast aluminium bulkhead fitting for 100 Watts BC lamp with glass bowl as THORN OLG 1100 or approved equivalent. NO 5 d) Standard waterproof IP65 fluorescent fitting with injection moulded polycarbonate body and polycarbonate diffuser c/w 2X36W fluorescent lamps with Switchstart gear. As Thorn Aquaproof. NO 2				
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
A	Power outlet points washing machine wired comprising of 5x10.0 mm sq. single core PVC copper cables drawn in concealed 50mm HG PVC conduits including all accessories.	NO	3		
B	100A TPN isolator switch with emergency stop button as MEM or approved equivalent	NO	3		
C	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 including all accessories.	NO	4		
D	13 Amps. Moulded plate switched socket outlet with neon indicator as SWE, CLIPSAL or approved equivalent b) twin.	NO	4		
E	<u>DISTRIBUTION BOARDS/CONSUMER UNIT</u> 6ways TPN flush mounted distribution board complete with 100A integral isolator as HAGER/HAVELLS or approved equivalent complete with all accessories but excluding MCBs.	NO	1		
F	MCB's for item above				
	(a) 10A, SP	NO	2		
	(b) 32A, SP	NO	1		
	(c) 63A TP	NO	3		
	(d) Blanking plates	NO	6		
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	SUB-MAIN POWER DISTRIBUTION				
A	50mm 4Core PVC/SWA/PVC Copper cables drawn in duct from power house to LV Subboard	LM	70		
B	Trenching to a depth of a minimum of 700mm Tiling with 'HATARI 'tiles & Back filling of the trenches for item above	LM	70		
C	4x25.0mm ² single CU PVC cables from looping box to consumer unit drawn in 50mm HG PVC conduit	LM	10		
D	Standard looping box complete with 3no. 100A cut-out fuses c/w catridge fuse	no.	1		
	EARTHING.				
E	Earthing at looping box comprising of the following:- a) 15 mm x 1800 mm earth rod as FURSE cat.No. RB 105. b) 15 mm dia. Driving stud as FURSE cat.No. ST100. c) Rod to tape clamp as FURSE. d) Concrete inspection pit as FURSE cat. No.PT005. (or a well made 320mm x e) 25x3mm copper tape				
Total to collection					

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>COLLECTION</u>				
A	COLLECTION FROM PAGE ELEC 1				
B	COLLECTION FROM PAGE ELEC 2				
C	COLLECTION FROM PAGE ELEC 3				
	TOTAL TO SUMMARY FOR MORTUARY BLOCK				

MORTUARY SUMMARY PAGE

	TOTAL	
Total For Mortuary Builders Works from page 16		
Total For Mortuary Plumbing Works from page 7		
Total For Mortuary Electrical Works from page ELEC/4		
Allow a sum for Project Management		100,000
TOTAL FOR MORTUARY WORKS CARRIED TO GRAND SUMMARY		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FEMALE INPATIENT WARD BUILDERS WORKS</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURE (All Provisional)</u> <u>Excavation and Earthworks</u> Note: Include Plunking and strutting and keeping excavation free of water in earth work rates A. Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed 580 SM B. Excavate oversite averaging 300mm deep and cart away 552 SM C. Excavate foundation trench not exceeding 1.50 metres deep starting from reduced level 91 CM D. Excavate for column bases ditto 48 CM E. Extra over for excavating in rock irrespective of depth 91 CM F. Return fill and ram selected excavated materials around foundations 180 CM G. Load and cart away excess excavations as directed 50 CM <u>Filling</u> H. 400mm thick hand packed hardcore filling rolled and compacted in layers not exceeding 150mm thick 500 SM I. 50mm thick murrum blinding 552 SM J. Treat surface of hardcore with "Termidor" insecticide to manufacturers specification and provide 10 years guarantee certificate 552 SM K. 1000 gauge polythene sheet damp proof membrane on blinded hardcore 552 SM				
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>Concrete Works</u>				
	<u>Mass concrete class 15/20</u>				
A.	50mm blinding strip foundation and column bases	143	SM		
	<u>Vibrated reinforced concrete class 20/20 in:-</u>				
B.	150mm thick floor slab	552	SM		
C.	Column and column bases	12	CM		
D.	Strip foundation	23	CM		
	<u>High tensile steel reinforcement bars to BS 4461</u>				
E.	12mm diameter	544	KG		
F.	10mm diameter	394	KG		
G.	8mm diameter	322	KG		
	<u>Fabric mesh</u>				
H.	Fabric mesh Ref. No. A142 (measured net) (No allowance for laps)	552	SM		
	<u>Sawn formwork to:</u>				
I.	Sides of strip foundation	20	SM		
J.	Sides of columns, column bases	45	SM		
K.	Edges of slab between 75mm and 150mm high	110	LM		
	<u>Natural stone wall bedded and jointed in cement/sand (1:3) mortar reinforced with 40mm hoop iron every alternate course</u>				
L.	200mm thick	388	SM		
	<u>Three ply hessian based bituminous felt horizontal damp proof course to BS 743 ,Type A weighing 3.8kg/m² bedded on cement/sand (1:3) mortar</u>				
M.	200mm wide	259	LM		
	<u>PCC SLAB PAVING</u>				
N.	50mm thick pcc slab paving on and including 50mm thick sand bed and 300mm thick hardcore	132	SM		
P.	300mm wide U-shaped open drain sloped appropriately and jointed in mortar	70	LM		
	ELEMENT NO. 1	TOTAL CARRIED			
	SUBSTRUCTURE	TO SUMMARY			

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u> <u>WALLING</u> <u>Fair dressed natural stone wall bedded and jointed in cement/sand (1:4) mortar (12mm joints) reinforced with 40mm hoop iron every alternate course</u> <u>External walls</u> A. 200mm thick 195 SM B. Extra over for key pointing in flush vertical and recessed horizontal joints 195 SM C. 100mm thick x 200mm high eaves closing 110 LM D. 20mm thick flexcell or other equal and approved expansion joint filler 35 SM <u>Internal walls</u> E. 200mm thick 349 SM F. 100mm thick 49 SM <u>Precast concrete class 25/12 units in:</u> G. 250 x 50mm (average) thick once weathered and throated window cill 52 LM				
	<u>ELEMENT NO. 3</u> <u>TOTAL CARRIED</u> WALLING TO SUMMARY				

[illegible]

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>EXTERNAL DOORS</u>				
A	Glazed 1800x 2400mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1800x150mm, apply red oxide primer before fixing	1	NO		
B	Glazed 1500x 2400mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 45 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1200x150mm, apply red oxide primer before fixing	1	NO		
	<u>Glazing</u>				
C	4mm clear sheet glass and glazing with putty in panes of various sizes	4	SM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
D	General surfaces internally	8	SM		
E	Ditto externally	8	SM		
	<u>Supply and fix the following ironmongery with matching screws as Union Catalogue or other equal and approved</u>				
F	5-Lever mortice dead lock cat No. 2101 complete with approved lock furniture	2	NO		
G	38mm diameter x 59mm deep rubber door stop ref No. 8400	17	NO		
H	100mm pairs stainless steel double action spring hinges	12	Prs		
I	100mm pairs brass butt hinges	26	Prs		
J	Three lever rebated mortice lock complete with furniture	4	NO		
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>INTERNAL DOORS</u>				
	<u>Flush doors</u>				
A	45 x 1800x 2400mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	1	NO		
B	45 x 1200x 2400mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	3	NO		
C	45 x 900 x 2400mm high single leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	1	NO		
D	45 x 900 x 2400mm high single leaf solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	8	NO		
E	45 x 900 x 2100mm high solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	8	NO		
	<u>Wrot Mahogany to door frames and finishings</u>				
F	150 x 50mm frame with 3 labours	113	LM		
G	150 x 50mm transome with 4 labours	12	LM		
H	15 x 40mm moulded architrave	113	LM		
I	25mm diameter moulded quadrant	113	LM		
J	4mm thick clear sheet glass and glazing with beads in panes between 0.15m and 0.5m	8	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
K	Surfaces not exceeding 100mm girth	226	LM		
L	Surfaces exceeding 100mm but not exceeding 200mm girth	125	LM		
M	General surfaces	95	SM		
N	3 lever mortice lock,with polished brass lever furniture and including all other necessary furniture.	17	NO		
P	Aluminium kicking plate,1150×500x2mmmm fixed to flush doors	6	NO		
Q	Aluminium kicking plate,850×500x2mm fixed to flush doors	28	NO		
R	Aluminium kicking plate,1750×500x2mm fixed to flush doors	2	NO		
S	Overhead door closer ; cat. No. 8823	3	NO		
T	Floor spring double action Ref. Yale 913.02 90° S.O	3	NO		
	ELEMENT NO. 5				
	DOORS				
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<i>The following in purpose made steel casement windows in heavy duty 'T' and 'Z' section frame including mullions, transomes in-built mosquito proof gauze permanent vents hood with at top, high quality heavy duty polished brass ironmongery to M/s Kensmetal Ltd or other equal and approved fasteners, window stays, fixing lags, and apply primer before fixing (small panel windows) <u>with intergrated burglar proofing in tubes welded horizontally and vertically in line with opening light casement, transomes and mullions (m/s)</u></i>				
A.	1500 x 1500mm high comprising side hung, top hung and fixed lights to detail	19	NO		
B.	1500 x 1200mm high ditto	1	NO		
C.	1200 x 900mm high ditto	2	NO		
D.	600 x 900mm high ditto	14	NO		
	<u>Burglar proofing</u>				
E.	Mild steel grille framed with 25x25x3mm thick RHS section including assembly and fixing to opening cutting and pinning lugs to concrete and bedding frame in cement and sand mortar (1:4)	55	SM		
	<u>Glazing</u>				
F.	4mm clear sheet glass and glazing with putty in panes of various sizes	45	SM		
G.	Ditto obscure glass pane	10	SM		
	<u>Wrot prime grade cypress</u>				
H.	150 x 150mm pelmet comprising 125 x 25mm thick top, 125 x 25mm fascia with 2No. labours, 40 x 40mm wrot bearers, 2No. brass curtain rails, rollers, stoppers, 125 x 125 x 25mm thick end brackets to detail	52	LM		
I.	125 x 25mm window board	52	LM		
J.	25mm quadrant	52	LM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
K.	General surfaces internally	55	SM		
L.	Ditto externally	55	SM		
M.	Burglar proofing	110	SM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
A.	12mm cement/sand (1:4) render to columns and ringbeams	77	SM		
B.	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows and doors	133	LM		
C.	12mm thick cement/sand render to plinth	44	SM		
D	Eaves boarding; in 20mm thick Upvc boarding	66	SM		
E	50 x 50mm cypress brandering	205	LM		
F	75 x 50mm moulded cypress cornice	213	LM		
	<u>Internal Wall Finishes</u>				
	<u>Cement, lime, sand plaster</u>				
G	12mm cement/lime/sand (1:1:6) fine plaster to walls and beams internally	787	SM		
H	20mm cement/sand (1:4) render to receive ceramic tiles	250	SM		
	<u>Glazed wall tiles to manufacturer</u>				
I	250 x 250x6mm thick patterned glazed wall tiles fixed with adhesive to rendered surfaces (m/s) with and including rounded plastic edge tiles (2100mm high)	250	SM		
J	Extra over for 75 mm wide decorative band	50	LM		
	<u>Floor Finishes</u>				
	<u>Cement/sand (1:4) screed</u>				
K	30mm thick to receive ceramic tiles	415	SM		
	<u>Ceramic floor tile</u>				
L	100 x 20mm skirting	350	LM		
M	330 x 330x6mm fixed onto prepared screed (m/s) with manufacturer's approved adhesive	500	SM		
	<u>Terrazzo floor tile</u>				
N	15mm thick cement and sand (1:4) screed wood floated to receive terazzo (m/s)	85	SM		
P	25mm Terrazzo: first coat of cement and sand (1:3); second of cement and local marble chippings (1:2); machine polished smooth	85	SM		
Q	20 x 100 mm high skirting with rounded top edge and coved at junction to paving	82	LM		
R	Plastic dividing strip	88	LM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u> <u>Externally</u> <u>Prepare and apply undercoats and three coats plastic emulsion paint to:</u> A. Plastered external columns ,ring beams 77 SM B. Plastered niches and reveals not exceeding 300mm wide 133 LM <u>Internally</u> <u>Prepare and apply three coats silk vinyl paint to</u> C. Plastered walls and concrete surfaces 787 SM <u>Prepare and apply three coats plastic emulsion paint to:-</u> D. Chipboard ceiling 500 SM <u>Prime back of wood before fixing</u> E. Surfaces not exceeding 100mm girth (cornice) 484 LM <u>Prepare and apply primer two undercoats and one gloss oil finishing coat to wood</u> F. Surfaces not exceeding 300mm girth (cornice) 484 LM <u>Prepare and apply two coats black bituminous paint to:</u> G. Rendered plinth externally 44 SM				
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u>	<u>TOTAL CARRIED TO SUMMARY</u>			

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 10</u> <u>Builder's Work</u> The contractor shall here allow all builder's work in connection with Electrical and Mechanical Engineering Installation The builders work shall include but not limited to a) Chases in wall, concrete work, and make good b) Forming, making or leaving holes, etc in masonry concrete or wood work c) Making good all disturbed area d) Excavations refill and disposal of spoil <u>Electrical Work</u> A. Allow for all builder's work in connection with Electrical Engineering Installations <u>Mechanical Engineering</u> B. Allow for all builder's work in connection with Mechanical Engineering Installations				
	<u>ELEMENT NO. 10</u> <u>BUILDER'S WORK</u>				
	<u>TOTAL CARRIED TO</u> <u>SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	<u>ELEMENT</u>				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE CONCRETE				
3	WALLING				
4	ROOF				
5	DOORS				
6	WINDOWS				
7	FINISHES				
8	PAINTING AND DECORATING				
9	FITTINGS AND FIXTURES				
10	BUILDER'S WORK				
	<u>TOTAL CARRIED TO</u>				
	<u>FEMALE INPATIENT WARD</u> <u>SUMMARY</u>				

**FEMALE WARD PLUMBING
WORKS**

SANITARY FITTINGS

Item	Description	Unit	Qty	Rate (Kshs)	Amount
	Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow Pipes. Twyford's Ltd 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				
	Water Closet				
A	Squatting water closet suite in vitreous china comprising of water closet bowl with top plate and integral foot threads, S-trap connector, 9 litres high cistern and fittings and pull chain including siphon, 15mm dia side inlet ball valve, 20mm dia side overflow, plastic flush pipe, inlet connector and Cistern supports. All to be as "Twyford's Oriental" or Approved equivalent.	No	5		
	Medical Wash Hand Basin				
C	Counter top 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	1		
	Soap Dish				
D	Twyford's semi-recessed built in soap tray in vitreous china size: 305 x 150mm	No	3		
	Robe hook				
E	Robe hook in vitreous china and in white colour mounted unto a concealed screw to wall wedges, to be as Twyford's OC 6858 1998 or approved equivalent.	No	3		
	Towel rail				
F	Twyford's Bathrooms Ltd Ref. No. PB 0363 CP chrome plated screw to wall Towel Rail 650mm long complete with screws.	No	4		
Sub-total carried forward to collection page					
P1					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	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 Twyford's "SEMI RECESSED & ORNAMENTAL" accessories Ref. No. VC 9808 WH	No	5		
B	Wash hand basin Wash hand basin size 510 x 420mm with one tap holes and chain stay hole, 32mm diameter chrome plated pop up chain waste, concealed wall brackets, chrome plated single tap hole basin mixer as Cobra and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. The wash hand basin to be as Twyford's 'Sola 510' or equal and approved.	No	13		
C	Shower fitting Concealed shower mixer for hot and cold water consisting of 15mm chrome plated riser pipe to connect the water to a swivel/ adjustable shower rose, chrome plated handles and stop corks and other necessary fittings & accessories. All to be as Bricon/aztec or equal and approved.	No	4		
D	Baby bath Vitreous china baby bath of size 510 x 650mm with two tap holes complete with supporting front legs and bearers in stainless steel, 32mm diameter waste fitting with removable overflow tube, lever operated mixer tap and chrome plated handles. All as Twyford's baby bath or approved equivalent.	No	1		
E	Hand drier Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m ³ /min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Mediclinic or approved equivalent.	No	2		
(P2) Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	Soap Dispenser Soap Dispenser, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, lock and key complete with initial fill of soap gel. The soap dispenser to be as ZALPON'S MARK 7 model, size 125 x 100 x 290mm high or approved equivalent	No	2		
B	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	1		
C	Dhobi Sink Heavy Duty stainless steel dhobi sink of size 675 x 485 x 300 mm deep in 16 SWG as manufactured by ASL 131 or equivalent suitable for wall mounting with 1 No 15 mm diameter chrome plated back inlet bib tap as Cobra Ref 107 CP, 40 mm diameter chrome plated bottle trap and chain waste fitting and plug.	No	1		
D	Sterilization Sink Hospital sterilization sink in stainless steel, size 600 x 600mm x 450mm deep with two tap holes, stainless steel cantilever brackets(pair) , front leg supports in stainless steel and unslotted chain waste fitting complete with lever action mixer tap for hot and cold water. All as Twyford's Hospital Sink or approved equivalent.	No	1		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
	Mirror				
A	Mirror of size 1,200 x 600x 6mm thick, plugged and Screwed to wall with 6No. chrome plated dome Capped screws. The mirror shall rest against a layer of 5mm thick foam.	No	1		
B	Mirror of size 600 x 600x 6mm thick, plugged and Screwed to wall with 6No. chrome plated dome Capped screws. The mirror shall rest against a layer of 5mm thick foam.	No	1		
	Scrub-Up				
C	Twyford Scrub-up Trough 2500mm long with Left Hand outlet Cat No. SS9122SS Complete with 3No. wall mounted Lever action mixer taps Cat No. SF1099CP 11/2Chrome plated Waste fitting and as trap	No	0		
	Flexible Tubing				
D	15mm diameter x 300mm long chrome plated flexible connectors.	No	6		
	Angle valve				
E	Chrome plated Angle shut-off valve as Cobra or approved equivalent	No	40		
	Sluice Unit				
F	Twyfords "Grafton B.P.S." hopper cat.no. FC4076WH loose-trap FC44612WH complete with Vitreous china high level cistern 7.5 Litre capacity with valveless fittings and reversible chain pull CX7610WH, cistern supporting brackets SR1300XX stainless steel flushpipe with spreader and clips SS6020SS Combine bedpan and urinal bottle jet with 1/2" lever handle taps, SF6504CP legs and bearers for hopper SR3053XX sinks 760mm x 455mm FC1350WH chain and waste 11/2" chrome plated WF4338CP waste pipe for the hopper WF9685WH legs and bearers for sink SR3043XX drain with anti-drip stip FC9684WH legs and bearers for drain SR3052XX chrome plated extended bib tap 1/2" SF5204CP Chrome plated Lever action mixer tap flexible hose and handspray SF7053CP.	No	1		
(P4) Sub-total carried forward to collection page					

COLLECTION PAGE

	Sanitary Fittings	Amount (KShs)
1	Sub-total brought down from page P-1	
2	Sub-total brought down from page P-2	
3	Sub-total brought down from page P-3	
4	Sub-total brought down from page P-4	
	Total for Sanitary Fittings Carried Forward to Summary Page	

Item	Description	Unit	Qty	Rate (KShs)	Amount (KShs)
	<u>INTERNAL PLUMBING WORKS- COLD</u> WATER (ALL PROVISIONAL) Supply, deliver and install pipes, tubing and Fittings as described and shown on the drawings. The pipes shall be PN 25 PPR pipes where exposed to adverse weather condition and all conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or Use of electric coupling. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and Satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers Recommended testing pressures. PPR Pipes A 20mm diameter pipework B 25mm diameter pipework C 32mm diameter pipework D 40mm diameter pipework E 50mm diameter pipework Bends F 20mm diameter bends G 25mm diameter bends H 32mm diameter bends				
	Sub-total carried forward to collection page				

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	40mm diameter bends	No.	20		
B	50mm diameter bends	No.	10		
	Tees				
C	25mm diameter equal tee	No.	40		
D	32mm diameter equal tee	No.	25		
E	40mm diameter equal tee	No.	60		
F	50mm diameter equal tee	No.	30		
	Reducers				
G	50 x 40mm diameter reducer	No.	20		
H	50 x 32mm diameter reducer	No.	25		
I	50 x 25mm diameter reducer	No.	25		
J	40 x 32mm diameter reducer	No.	50		
K	40 x 25mm diameter reducer	No.	30		
L	40 x 20mm diameter reducer	No.	20		
M	32 x 25mm diameter reducer	No.	22		
N	32 x 20mm diameter reducer	No.	24		
O	25 x 20mm diameter reducer	No.	50		
	Male/Female Threaded Brass Adapters				
P	32mm threaded brass coupling	No.	35		
Q	25mm threaded brass coupling	No.	37		
R	20mm threaded brass coupling	No.	50		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
	Valves				
A	20mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 PN 20 for series B rating, with wheel and head joints to steel tubing and complete with round male threaded transition fittings. The gate valve to be as PEGLER or approved equivalent.	No.	4		
B	25mm ditto	No.	2		
C	40mm ditto	No.	4		
D	50mm ditto	No.	3		
	Unions				
F	25mm diameter pipe union	No.	3		
G	40mm diameter pipe union	No.	10		
H	50mm diameter pipe union	No.	7		
	Water storage tank in the roof space				
I	Supply and install rectangular loft water storage tank of capacity 920 made from plastic and of dimension 1270x1270x580 mm Rotor or approved equivalent. The tank shall be complete with inlet, outlet, Overflow and drain connection. It should have a 50mm diameter medium pressure ball valve with silencer pipe, bronze lever and copper float all as "Glenfield" or approved equivalent. The tank shall Be firmly supported on the roof space.	No.	4		
Sub-total carried forward to collection page					

	Internal plumbing	Amount (KShs)
1	Sub-total brought down from page P-6	
2	Sub-total brought down from page P-7	
3	Sub-total brought down from page P-8	
	Total for Internal Plumbing Carried Forward to Summary Page	

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
	(ALL PROVISIONAL)				
	FOUL WATER INTERNAL DRAINAGE				
	Supply ,deliver and install the following UPVC, MUPVC, soil and waste systems respectively to B.S 5255 with fittings fixed to Manufactures Printed instructions and manufactured by reputable Manufacturers. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
	MuPVC and uPVC Waste and Soil pipework				
A	100mm diameter heavy gauge grey mUPVC pipe	Lm	120		
B	50mm diameter waste pipe	Lm	100		
C	40mm diameter waste pipe	Lm	120		
	Bends				
D	100mm diameter long radius bend	No.	15		
E	100mm diameter short radius bend	No.	50		
F	100mm diameter sweep bend	No.	35		
G	50mm diameter bend	No.	50		
H	40mm diameter 90° bend	No.	80		
	Tees				
I	100mm diameter sweep tee	No.	40		
J	50mm diameter sweep tee	No.	25		
K	40mm diameter sweep tee	No.	30		
	Access Caps				
L	100mm diameter access cap	No.	25		
(P10) Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	50mm diameter access cap	No.	20		
B	40mm diameter access cap	No.	30		
	Boss Connectors				
C	100 x 50mm diameter boss connector	No.	32		
D	100 x 40mm diameter boss connector	No.	15		
	WC Connectors				
E	100mm diameter WC connector	No.	10		
	Traps				
F	100 x 50mm diameter floor trap and grating	No.	12		
	Inspection Chamber				
G	Man-hole or inspection chamber size 600 x 450 mm by approximately 750mm deep using 200mm thick base (concrete class N15) with 250mm thick benching including forming drain channels, and 200mm thick solid concrete block walling, including 15mm internal plaster and top slab/screed, including pit digging, backfilling, carting away surplus and making good.	No.	10		
	Man-hole frame				
H	Man-hole frame (light duty) in cast iron size 0.6 x 0.45m with recessed cover with concrete infill, Finished to approval.	No.	10		
	Weathering Slates and Vent Cows				
I	100mm diameter weathering slate and apron.	No.	5		
J	100mm diameter vent cowl	No.	5		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.		ITEM		
B	Construct water tank masonry base diameter 2500mm and 300mm above general ground level. The base should have 200mm thick foundation footing, 200mm thick foundation wall including along diameter, 300mm thick hardcore layer and 150mm thick floor slab reinforced with y8 at 200mm centres both ways.		ITEM		
C	10,000 litres plastic tank UPVC cylindrical as roto or equal and approved.	1	NO		

COLLECTION PAGE

Internal drainage

Amount (KShs)

- 1 Sub-total brought down from page P-10
- 2 Sub-total brought down from page P-11
- 3 Sub-total brought down from above

**Total for Internal Drainage Carried
Forward to Summary Page**

SUMMARY PAGE

	DESCRIPTION	Amount (Kshs)
1	Total for Sanitary Fittings Brought Down from Page P-5.....	
2	Total for Internal Plumbing Brought Down from Page P-9.....	
3	Total for Foul Water Drainage BroughtDown from Page P-12	
	P13	
TOTAL FOR PLUMBING AND DRAINAGE CARRIED TO SUMMARY		

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>FEMALE INPATIENT WARD</u>				
	<i>Supply, install, test and commission the following :-</i>				
	<u>LIGHTING POINTS</u>				
A	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 switching	NO	89		
	b) two way switching	NO	5		
	<u>SWITCHES</u>				
B	10Amps, switch plate as CLIPSAL, MK or approved equivalent as				
	a) one gang one way	NO	56		
	b) two gang one way	NO	4		
	c) three gang one way	NO	3		
	d) one gang two way	NO	2		
	<u>LIGHTING FITTINGS</u>				
C	Lighting fittings complete with bulbs or tubes as follows:				
	a) 18W LED square surface downlighters as THORN or approved equivalent.	NO	25		
	b) 60Watts, spherical screw neck ball fitting as THORN MTC 1060 or approved equivalent	NO	10		
	c) 1x18 Watts Bedhead fluorescent luminaire complete with prismatic diffuser as THORN PPD118 or approved equivalent.	NO	51		
	d) 1x8Watts, Single sided EXIT emergency lighting luminaire as FITZGERALD, THORN or approved equivalent.(TYPE EXIT)	NO	2		
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>fittings contd</u>				
	e)100 Watts, cast aluminium bulkhead fitting for 100 Watts BC lamp with glass bowl as THORN OLG 1100 or approved equivalent.	NO	9		
	f) Standard waterproof IP65 fluorescent fitting with injection moulded polycarbonate body and polycarbonate diffuser c/w 2X36W fluorescent lamps with Switchstart gear. As Thorn Aquaproof.	NO	3		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
A	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 including all accessories.	NO	57		
B	13 Amps. Moulded plate switched socket outlet with neon indicator as SWE, CLIPSAL or approved equivalent				
	a) single	NO	51		
	b) twin.	NO	6		
C	Instant shower point comprising wiring in 3x4.0mm ² PVC-SC-CU cables in concealed PVC conduits	NO	1		
D	32 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for item above	No	1		
E	Sterelizer points comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits to sluice rooms	NO	1		
F	20 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent.	NO	1		
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>TELEPHONE/DATA AND TV WORKS</u>				
	TV outlet point complete with wiring in CO AXIAL cable drawn in concealed HG PVC conduit including moulded plates	NO	2		
	<u>DISTRIBUTION BOARDS/CONSUMER UNIT</u>				
	8ways SP flush mounted consumer unit complete with 100A integral isolator as HAGER/HAVELLS or approved equivalent complete with all accessories but excluding MCBs.	NO	1		
A	MCB's for item above				
	(a) 10A, SP	NO	3		
	(b) 20A, SP	NO	2		
	(c) 32A SP	NO	2		
	(e) Blanking plates	NO	1		
C	SUB-MAIN POWER DISTRIBUTION				
	25mm 4Core PVC/SWA/PVC Copper cables drawn in duct from power house to LV Subboard	LM	50		
D	Trenching to a depth of a minimum of 700mm Tiling with 'HATARI 'tiles & Back filling of the trenches for item above	LM	50		
E	3x16.0mm ² single CU PVC cables from looping box to consumer unit drawn in 25mm HG PVC conduit	LM	10		
F	Standard looping box complete with 3no. 100A cut-out fuses c/w cartridge fuse	no.	1		
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
A	<u>EARTHING.</u> Earthing at looping box comprising of the following:- a) 15 mm x 1800 mm earth rod as FURSE cat.No. RB 105. b) 15 mm dia. Driving stud as FURSE cat.No. ST100. c) Rod to tape clamp as FURSE. d) Concrete inspection pit as FURSE cat. No.PT005. (or a well made 320mm x e) 25x3mm copper tape				
	<u>NURSE CALL SYSYTEM</u>				
B	Nurse call system points comprising of wiring in 6 core PVC insulated copper cable drawn in concealed 20mm dia. HG conduits.	NO	26		
C	Wall mounted over door lights for Nurse call system.	NO	1		
D	Nurse call system pull cord call switch on bedhead unit	NO	26		
E	Nurse call/reset switch on bedhead unit	NO	26		
F	250 VAC 50 HZ, flush mounted Nurse call control panel with a minimum of 24 No. patient tations, alarm sounder, lamp test facility for the dome lights and LEDs, continuous supervision of addressable devices to Engineer's approval.	LM	1		
	Total to collection				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>COLLECTION</u>				
A	COLLECTION FROM PAGE ELEC 1				
B	COLLECTION FROM PAGE ELEC 2				
C	COLLECTION FROM PAGE ELEC 3				
D	COLLECTION FROM PAGE ELEC 4				
	TOTAL TO SUMMARY FOR INPATIENT BLOCK				

FEMALE INPATIENT WARD SUMMARY PAGE

	TOTAL	
Total For Female Ward Builders Works from page 16		
Total For Female Ward Plumbing Works from page P13		
Total For Female Ward Electrical Works from page ELEC/5		
Allow a sum for Project Management		200,000
TOTAL FOR FEMALE WARD WORKS CARRIED TO GRAND SUMMARY		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>MALE INPATIENT WARD</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURE (All Provisional)</u> <u>Excavation and Earthworks</u> Note: Include Plunking and strutting and keeping excavation free of water in earth work rates A. Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed 580 SM B. Excavate oversite averaging 300mm deep and cart away 552 SM C. Excavate foundation trench not exceeding 1.50 metres deep starting from reduced level 91 CM D. Excavate for column bases ditto 48 CM E. Extra over for excavating in rock irrespective of depth 91 CM F. Return fill and ram selected excavated materials around foundations 180 CM G. Load and cart away excess excavations as directed 50 CM <u>Filling</u> H. 400mm thick hand packed hardcore filling rolled and compacted in layers not exceeding 150mm thick 500 SM I. 50mm thick murrum blinding 552 SM J. Treat surface of hardcore with "Termidor" insecticide to manufacturers specification and provide 10 years guarantee certificate 552 SM K. 1000 gauge polythene sheet damp proof membrane on blinded hardcore 552 SM				
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>Concrete Works</u>				
	<u>Mass concrete class 15/20</u>				
A.	50mm blinding strip foundation and column bases	143	SM		
	<u>Vibrated reinforced concrete class 20/20 in:-</u>				
B.	150mm thick floor slab	552	SM		
C.	Column and column bases	12	CM		
D.	Strip foundation	23	CM		
	<u>High tensile steel reinforcement bars to BS 4461</u>				
E.	12mm diameter	544	KG		
F.	10mm diameter	394	KG		
G.	8mm diameter	322	KG		
	<u>Fabric mesh</u>				
H.	Fabric mesh Ref. No. A142 (measured net) (No allowance for laps)	552	SM		
	<u>Sawn formwork to:</u>				
I.	Sides of strip foundation	20	SM		
J.	Sides of columns, column bases	45	SM		
K.	Edges of slab between 75mm and 150mm high	110	LM		
	<u>Natural stone wall bedded and jointed in cement/sand (1:3) mortar reinforced with 40mm hoop iron every alternate course</u>				
L.	200mm thick	388	SM		
	<u>Three ply hessian based bituminous felt horizontal damp proof course to BS 743 ,Type A weighing 3.8kg/m² bedded on cement/sand (1:3) mortar</u>				
M.	200mm wide	259	LM		
	<u>PCC SLAB PAVING</u>				
N.	50mm thick pcc slab paving on and including 50mm thick sand bed and 300mm thick hardcore	132	SM		
P.	300mm wide U-shaped open drain sloped appropriately and jointed in mortar	70	LM		
	ELEMENT NO. 1	TOTAL CARRIED			
	SUBSTRUCTURE	TO SUMMARY			

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u> <u>WALLING</u> <u>Fair dressed natural stone wall bedded and jointed in cement/sand (1:4) mortar (12mm joints) reinforced with 40mm hoop iron every alternate course</u> <u>External walls</u> A. 200mm thick 195 SM B. Extra over for key pointing in flush vertical and recessed horizontal joints 195 SM C. 100mm thick x 200mm high eaves closing 110 LM D. 20mm thick flexcell or other equal and approved expansion joint filler 35 SM <u>Internal walls</u> E. 200mm thick 349 SM F. 100mm thick 49 SM <u>Precast concrete class 25/12 units in:</u> G. 250 x 50mm (average) thick once weathered and throated window cill 52 LM				
	<u>ELEMENT NO. 3</u> <u>TOTAL CARRIED</u> WALLING TO SUMMARY				

[illegible]

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>EXTERNAL DOORS</u>				
A	Glazed 1800x 2400mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1800x150mm, apply red oxide primer before fixing	1	NO		
B	Glazed 1500x 2400mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 45 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1200x150mm, apply red oxide primer before fixing	1	NO		
	<u>Glazing</u>				
C	4mm clear sheet glass and glazing with putty in panes of various sizes	4	SM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
D	General surfaces internally	8	SM		
E	Ditto externally	8	SM		
	<u>Supply and fix the following ironmongery with matching screws as Union Catalogue or other equal and approved</u>				
F	5-Lever mortice dead lock cat No. 2101 complete with approved lock furniture	2	NO		
G	38mm diameter x 59mm deep rubber door stop ref No. 8400	17	NO		
H	100mm pairs stainless steel double action spring hinges	12	Prs		
I	100mm pairs brass butt hinges	26	Prs		
J	Three lever rebated mortice lock complete with furniture	4	NO		
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>INTERNAL DOORS</u>				
	<u>Flush doors</u>				
A	45 x 1800x 2400mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	1	NO		
B	45 x 1200x 2400mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	3	NO		
C	45 x 900 x 2400mm high single leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	1	NO		
D	45 x 900 x 2400mm high single leaf solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	8	NO		
E	45 x 900 x 2100mm high solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	8	NO		
	<u>Wrot Mahogany to door frames and finishings</u>				
F	150 x 50mm frame with 3 labours	113	LM		
G	150 x 50mm transome with 4 labours	12	LM		
H	15 x 40mm moulded architrave	113	LM		
I	25mm diameter moulded quadrant	113	LM		
J	4mm thick clear sheet glass and glazing with beads in panes between 0.15m and 0.5m	8	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
K	Surfaces not exceeding 100mm girth	226	LM		
L	Surfaces exceeding 100mm but not exceeding 200mm girth	125	LM		
M	General surfaces	95	SM		
N	3 lever mortice lock,with polished brass lever furniture and including all other necessary furniture.	17	NO		
P	Aluminium kicking plate,1150×500x2mmmm fixed to flush doors	6	NO		
Q	Aluminium kicking plate,850×500x2mm fixed to flush doors	28	NO		
R	Aluminium kicking plate,1750×500x2mm fixed to flush doors	2	NO		
S	Overhead door closer ; cat. No. 8823	3	NO		
T	Floor spring double action Ref. Yale 913.02 90° S.O	3	NO		
	ELEMENT NO. 5				
	DOORS				
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u> <u>WINDOWS</u> <i><u>The following in purpose made steel casement windows in heavy duty 'T' and 'Z' section frame including mullions, transomes in-built mosquito proof gauze permanent vents hood with at top, high quality heavy duty polished brass ironmongery to M/s Kensmetal Ltd or other equal and approved fasteners, window stays, fixing lags, and apply primer before fixing (small panel windows) with intergrated burglar proofing in tubes welded horizontally and vertically in line with opening light casement, transomes and mullions (m/s)</u></i>				
A.	1500 x 1500mm high comprising side hung, top hung and fixed lights to detail	19	NO		
B.	1500 x 1200mm high ditto	1	NO		
C.	1200 x 900mm high ditto	2	NO		
D.	600 x 900mm high ditto	14	NO		
	<u>Burglar proofing</u>				
E.	Mild steel grille framed with 25x25x3mm thick RHS section including assembly and fixing to opening cutting and pinning lugs to concrete and bedding frame in cement and sand mortar (1:4)	55	SM		
	<u>Glazing</u>				
F.	4mm clear sheet glass and glazing with putty in panes of various sizes	45	SM		
G.	Ditto obscure glass pane	10	SM		
	<u>Wrot prime grade cypress</u>				
H.	150 x 150mm pelmet comprising 125 x 25mm thick top, 125 x 25mm fascia with 2No. labours, 40 x 40mm wrot bearers, 2No. brass curtain rails, rollers, stoppers, 125 x 125 x 25mm thick end brackets to detail	52	LM		
I.	125 x 25mm window board	52	LM		
J.	25mm quadrant	52	LM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
K.	General surfaces internally	55	SM		
L.	Ditto externally	55	SM		
M.	Burglar proofing	110	SM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
A.	12mm cement/sand (1:4) render to columns and ringbeams	77	SM		
B.	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows and doors	133	LM		
C.	12mm thick cement/sand render to plinth	44	SM		
D	Eaves boarding; in 20mm thick Upvc boarding	66	SM		
E	50 x 50mm cypress brandering	205	LM		
F	75 x 50mm moulded cypress cornice	213	LM		
	<u>Internal Wall Finishes</u>				
	<u>Cement, lime, sand plaster</u>				
G	12mm cement/lime/sand (1:1:6) fine plaster to walls and beams internally	787	SM		
H	20mm cement/sand (1:4) render to receive ceramic tiles	250	SM		
	<u>Glazed wall tiles to manufacturer</u>				
I	250 x 250x6mm thick patterned glazed wall tiles fixed with adhesive to rendered surfaces (m/s) with and including rounded plastic edge tiles (2100mm high)	250	SM		
J	Extra over for 75 mm wide decorative band	50	LM		
	<u>Floor Finishes</u>				
	<u>Cement/sand (1:4) screed</u>				
K	30mm thick to receive ceramic tiles	415	SM		
	<u>Ceramic floor tile</u>				
L	100 x 20mm skirting	350	LM		
M	330 x 330x6mm fixed onto prepared screed (m/s) with manufacturer's approved adhesive	500	SM		
	<u>Terrazzo floor tile</u>				
N	15mm thick cement and sand (1:4) screed wood floated to receive terazzo (m/s)	85	SM		
P	25mm Terrazzo: first coat of cement and sand (1:3); second of cement and local marble chippings (1:2); machine polished smooth	85	SM		
Q	20 x 100 mm high skirting with rounded top edge and coved at junction to paving	82	LM		
R	Plastic dividing strip	88	LM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u> <u>Externally</u> <u>Prepare and apply undercoats and three coats plastic emulsion paint to:</u> A. Plastered external columns,ringbeams 77 SM B. Plastered niches and reveals not exceeding 300mm wide 133 LM <u>Internally</u> <u>Prepare and apply three coats silk viny paint to</u> C. Plastered walls and cocrete surfaces 787 SM <u>Prepare and apply three coats plastic emulsion paint to:-</u> D. Chipboard ceiling 500 SM <u>Prime back of wood before fixing</u> E. Surfaces not exceeding 100mm girth (cornice) 484 LM <u>Prepare and apply primer two undercoats and one gloss oil finishing coat to wood</u> F. Surfaces not exceeding 300mm girth (cornice) 484 LM <u>Prepare and apply two coats black bituminous paint to:</u> G. Rendered plinth externally 44 SM				
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u>	<u>TOTAL CARRIED TO SUMMARY</u>			

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 10</u> <u>Builder's Work</u> The contractor shall here allow all builder's work in connection with Electrical and Mechanical Engineering Installation The builders work shall include but not limited to a) Chases in wall, concrete work, and make good b) Forming, making or leaving holes, etc in masonry concrete or wood work c) Making good all disturbed area d) Excavations refill and disposal of spoil <u>Electrical Work</u> A. Allow for all builder's work in connection with Electrical Engineering Installations <u>Mechanical Engineering</u> B. Allow for all builder's work in connection with Mechanical Engineering Installations				
	<u>ELEMENT NO. 10</u> <u>BUILDER'S WORK</u>				
	<u>TOTAL CARRIED TO</u> <u>SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	<u>ELEMENT</u>				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE CONCRETE				
3	WALLING				
4	ROOF				
5	DOORS				
6	WINDOWS				
7	FINISHES				
8	PAINTING AND DECORATING				
9	FITTINGS AND FIXTURES				
10	BUILDER'S WORK				
	<u>TOTAL CARRIED TO</u>				
	MALE INPATIENT WARD				
	SUMMARY				

**MALE WARD PLUMBING
WORKS**

SANITARY FITTINGS					
Item	Description	Unit	Qty	Rate (Kshs)	Amount
	Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Twyfords Ltd 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 Water Closet A Squatting water closet suite in vitreous china comprising of water closet bowl with top plate and integral foot threads, S-trap connector, 9 litres high cistern and fittings and pull chain including siphon, 15mm dia side inlet ball valve, 20mm dia side overflow, plastic flush pipe, inlet connector and cistern supports. All to be as "Twyfords Oriental" or approved equivalent. Medical Wash Hand Basin C Counter top Twyfords "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. Soap Dish D Twyfords semi-recessed built in soap tray in vitreous china size: 305 x 150mm Robe hook E Robe hook in vitreous china and in white colour mounted unto a concealed screw to wall wedges, to be as Twyfords OC 6858 1998 or approved equivalent. Towel rail F Twyfords Bathrooms Ltd Ref. No. PB 0363 CP chrome plated screw to wall Towel Rail 650mm long complete with screws.	No	5		
		No	1		
		No	3		
		No	3		
		No	4		
Sub-total carried forward to collection page					
P1					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	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 Twyford's "SEMI RECESSED & ORNAMENTAL" accessories Ref. No. VC 9808 WH	No	5		
B	Wash hand basin Wash hand basin size 510 x 420mm with one tap holes and chain stay hole, 32mm diameter chrome plated pop up chain waste, concealed wall brackets, chrome plated single tap hole basin mixer as Cobra and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. The wash hand basin to be as Twyford's 'Sola 510' or equal and approved.	No	13		
C	Shower fitting Concealed shower mixer for hot and cold water consisting of 15mm chrome plated riser pipe to connect the water to a swivel/ adjustable shower rose, chrome plated handles and stop corks and other necessary fittings & accessories. All to be as Bricon/aztec or equal and approved.	No	4		
D	Baby bath Vitreous china baby bath of size 510 x 650mm with two tap holes complete with supporting front legs and bearers in stainless steel, 32mm diameter waste fitting with removable overflow tube, lever operated mixer tap and chrome plated handles. All as Twyford's baby bath or approved equivalent.	No	1		
E	Hand drier Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m ³ /min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Mediclinic or approved equivalent.	No	2		
(P2) Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	Soap Dispenser Soap Dispenser, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, lock and key complete with initial fill of soap gel. The soap dispenser to be as ZALPON'S MARK 7 model, size 125 x 100 x 290mm high or approved equivalent	No	2		
B	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	1		
C	Dhobi Sink Heavy Duty stainless steel dhobi sink of size 675 x 485 x 300 mm deep in 16 SWG as manufactured by ASL 131 or equivalent suitable for wall mounting with 1 No 15 mm diameter chrome plated back inlet bib tap as Cobra Ref 107 CP, 40 mm diameter chrome plated bottle trap and chain waste fitting and plug.	No	1		
D	Sterilization Sink Hospital sterilization sink in stainless steel, size 600 x 600mm x 450mm deep with two tap holes, stainless steel cantilever brackets(pair) , front leg supports in stainless steel and unslotted chain waste fitting complete with lever action mixer tap for hot and cold water. All as Twyford's Hospital Sink or approved equivalent.	No	1		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
	Mirror				
A	Mirror of size 1,200 x 600x 6mm thick, plugged and screwed to wall with 6No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	No	1		
B	Mirror of size 600 x 600x 6mm thick, plugged and screwed to wall with 6No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	No	1		
	Scrub-Up				
C	Twyford Scrub-up Trough 2500mm long with Left hand outlet Cat No. SS9122SS Complete with 3No. wall mounted Lever action mixer taps Cat No. SF1099CP 11/2Chrome plated Waste fitting and as trap	No	0		
	Flexible Tubing				
D	15mm diameter x 300mm long chrome plated flexible connectors.	No	6		
	Angle valve				
E	Chrome plated Angle shut-off valve as Cobra or approved equivalent	No	40		
	Sluice Unit				
F	Twyford's "Grafton B.P.S." hopper cat.no. FC4076WH loose-trap FC44612WH complete with Vitreous china high level cistern 7.5 Litre capacity with valveless fittings and reversible chain pull CX7610WH, cistern supporting brackets SR1300XX stainless steel flushpipe with spreader and clips SS6020SS Combine bedpan and urinal bottle jet with 1/2" lever handle taps, SF6504CP legs and bearers for hopper SR3053XX sinks 760mm x 455mm FC1350WH chain and waste 11/2" chrome plated WF4338CP waste pipe for the hopper WF9685WH legs and bearers for sink SR3043XX drain with anti-drip stip FC9684WH legs and bearers for drain SR3052XX chrome plated extended bib tap 1/2" SF5204CP Chrome plated Lever action mixer tap flexible hose and handspray SF7053CP.	No	1		
(P4) Sub-total carried forward to collection page					

COLLECTION PAGE

	Sanitary Fittings	Amount (KShs)
1	Sub-total brought down from page P-1	
2	Sub-total brought down from page P-2	
3	Sub-total brought down from page P-3	
4	Sub-total brought down from page P-4	
Total for Sanitary Fittings Carried Forward to Summary Page		

Item	Description	Unit	Qty	Rate (KShs)	Amount (KShs)
	<u>INTERNAL PLUMBING WORKS- COLD</u> WATER (ALL PROVISIONAL) Supply, deliver and install pipes, tubing and fittings as described and shown on the drawings. The pipes shall be PN 25 PPR pipes where exposed to adverse weather condition and all conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures. PPR Pipes A 20mm diameter pipework B 25mm diameter pipework C 32mm diameter pipework D 40mm diameter pipework E 50mm diameter pipework Bends F 20mm diameter bends G 25mm diameter bends H 32mm diameter bends				
	Sub-total carried forward to collection page				

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	40mm diameter bends	No.	20		
B	50mm diameter bends	No.	10		
	Tees				
C	25mm diameter equal tee	No.	40		
D	32mm diameter equal tee	No.	25		
E	40mm diameter equal tee	No.	60		
F	50mm diameter equal tee	No.	30		
	Reducers				
G	50 x 40mm diameter reducer	No.	20		
H	50 x 32mm diameter reducer	No.	25		
I	50 x 25mm diameter reducer	No.	25		
J	40 x 32mm diameter reducer	No.	50		
K	40 x 25mm diameter reducer	No.	30		
L	40 x 20mm diameter reducer	No.	20		
M	32 x 25mm diameter reducer	No.	22		
N	32 x 20mm diameter reducer	No.	24		
O	25 x 20mm diameter reducer	No.	50		
	Male/Female Threaded Brass Adapters				
P	32mm threaded brass coupling	No.	35		
Q	25mm threaded brass coupling	No.	37		
R	20mm threaded brass coupling	No.	50		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (KShs)	Amount (KShs)
	Valves				
A	20mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 PN 20 for series B rating, with wheel and head joints to steel tubing and complete with round male threaded transition fittings. The gate valve to be as PEGLER or approved equivalent.	No.	4		
B	25mm ditto	No.	2		
C	40mm ditto	No.	4		
D	50mm ditto	No.	3		
	Unions				
F	25mm diameter pipe union	No.	3		
G	40mm diameter pipe union	No.	10		
H	50mm diameter pipe union	No.	7		
	Water storage tank in the roof space				
I	Supply and inatall rectangular loft water storage tank of capacity 920 made from plastic and of dimension 1270x1270x580 mm Rotor or approved equivalent. The tank shall be complete with inlet, outlet, overflow and drain connection. It should have a 50mm diameter medium pressure ball valve with silencer pipe, bronze lever and copper float all as “Glenfield” or approved equivalent. The tank shall be firmly supported on the roof space.	No.	4		
Sub-total carried forward to collection page					

	Internal plumbing	Amount (KShs)
1	Sub-total brought down from page P-6	
2	Sub-total brought down from page P-7	
3	Sub-total brought down from page P-8	
	Total for Internal Plumbing Carried Forward to Summary Page	

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
	(ALL PROVISIONAL)				
	FOUL WATER INTERNAL DRAINAGE				
	Supply ,deliver and install the following UPVC, MUPVC, soil and waste systems respectively to B.S 5255 with fittings fixed to Manufactures Printed instructions and manufactured by reputable manufacturers. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
	MuPVC and uPVC Waste and Soil pipework				
A	100mm diameter heavy gauge grey mUPVC pipe	Lm	120		
B	50mm diameter waste pipe	Lm	100		
C	40mm diameter waste pipe	Lm	120		
	Bends				
D	100mm diameter long radius bend	No.	15		
E	100mm diameter short radius bend	No.	50		
F	100mm diameter sweep bend	No.	35		
G	50mm diameter bend	No.	50		
H	40mm diameter 90° bend	No.	80		
	Tees				
I	100mm diameter sweep tee	No.	40		
J	50mm diameter sweep tee	No.	25		
K	40mm diameter sweep tee	No.	30		
	Access Caps				
L	100mm diameter access cap	No.	25		
(P10) Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	50mm diameter access cap	No.	20		
B	40mm diameter access cap	No.	30		
	Boss Connectors				
C	100 x 50mm diameter boss connector	No.	32		
D	100 x 40mm diameter boss connector	No.	15		
	WC Connectors				
E	100mm diameter WC connector	No.	10		
	Traps				
F	100 x 50mm diameter floor trap and grating	No.	12		
	Inspection Chamber				
G	Man-hole or inspection chamber size 600 x 450 mm by approximately 750mm deep using 200mm thick base (concrete class N15) with 250mm thick benching including forming drain channels, and 200mm thick solid concrete block walling, including 15mm internal plaster and top slab/screed, including pit digging, backfilling, carting away surplus and making good.	No.	10		
	Man-hole frame				
H	Man-hole frame (light duty) in cast iron size 0.6 x 0.45m with recessed cover with concrete infill, finished to approval.	No.	10		
	Weathering Slates and Vent Cowls				
I	100mm diameter weathering slate and apron.	No.	5		
J	100mm diameter vent cowl	No.	5		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.		ITEM		
B	Construct water tank masonry base diameter 2500mm and 300mm above general ground level. The base should have 200mm thick foundation footing, 200mm thick foundation wall including along diameter, 300mm thick hardcore layer and 150mm thick floor slab reinforced with y8 at 200mm centres both ways.		ITEM		
C	10,000 litres plastic tank UPVC cylindrical as roto or equal and approved.	1	NO		

COLLECTION PAGE

Internal drainage

Amount (KShs)

- 1 Sub-total brought down from page P-10
- 2 Sub-total brought down from page P-11
- 3 Sub-total brought down from above

**Total for Internal Drainage Carried
Forward to Summary Page**

SUMMARY PAGE

	DESCRIPTION	Amount (Kshs)
1	Total for Sanitary Fittings Brought Down from Page P-5.....	
2	Total for Internal Plumbing Brought Down from Page P-9.....	
3	Total for Foul Water Drainage BroughtDown from Page P-12	
	P13	
TOTAL FOR PLUMBING AND DRAINAGE CARRIED TO SUMMARY		

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>MALE INPATIENT WARD</u>				
	<i>Supply, install, test and commission the following :-</i>				
	<u>LIGHTING POINTS</u>				
A	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 switching	NO	89		
	b) two way switching	NO	5		
	<u>SWITCHES</u>				
B	10Amps, switch plate as CLIPSAL, MK or approved equivalent as				
	a) one gang one way	NO	56		
	b) two gang one way	NO	4		
	c) three gang one way	NO	3		
	d) one gang two way	NO	2		
	<u>LIGHTING FITTINGS</u>				
C	Lighting fittings complete with bulbs or tubes as follows:				
	a) 18W LED square surface downlighters fitting as THORN or approved equivalent.	NO	25		
	b) 60Watts, spherical screw neck ball fitting as THORN MTC 1060 or approved equivalent	NO	10		
	c) 1x18 Watts Bedhead fluorescent luminaire complete with prismatic diffuser as THORN PPD118 or approved equivalent.	NO	51		
	d) 1x8Watts, Single sided EXIT emergency lighting luminaire as FITZGERALD, THORN or approved equivalent.(TYPE EXIT)	NO	2		
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>fittings contd</u>				
	e)100 Watts, cast aluminium bulkhead fitting for 100 Watts BC lamp with glass bowl as THORN OLG 1100 or approved equivalent.	NO	9		
	f) Standard waterproof IP65 fluorescent fitting with injection moulded polycarbonate body and polycarbonate diffuser c/w 2X36W fluorescent lamps with Switchstart gear. As Thorn Aquaproof.	NO	3		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
A	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 including all accessories.	NO	57		
B	13 Amps. Moulded plate switched socket outlet with neon indicator as SWE, CLIPSAL or approved equivalent				
	a) single	NO	51		
	b) twin.	NO	6		
C	Instant shower point comprising wiring in 3x4.0mm ² PVC-SC-CU cables in concealed PVC conduits	NO	1		
D	32 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for item above	No	1		
E	Sterelizer points comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits to sluice rooms	NO	1		
F	20 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent.	NO	1		
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>TELEPHONE/DATA AND TV WORKS</u>				
	TV outlet point complete with wiring in CO AXIAL cable drawn in concealed HG PVC conduit including moulded plates	NO	2		
	<u>DISTRIBUTION BOARDS/CONSUMER UNIT</u>				
	8ways SP flush mounted consumer unit complete with 100A integral isolator as HAGER/HAVELLS or approved equivalent complete with all accessories but excluding MCBs.	NO	1		
A	MCB's for item above				
	(a) 10A, SP	NO	3		
	(b) 20A, SP	NO	2		
	(c) 32A SP	NO	2		
	(e) Blanking plates	NO	1		
C	SUB-MAIN POWER DISTRIBUTION				
	25mm 4Core PVC/SWA/PVC Copper cables drawn in duct from power house to LV Subboard	LM	50		
D	Trenching to a depth of a minimum of 700mm Tiling with 'HATARI 'tiles & Back filling of the trenches for item above	LM	50		
E	3x16.0mm ² single CU PVC cables from looping box to consumer unit drawn in 25mm HG PVC conduit	LM	10		
F	Standard looping box complete with 3no. 100A cut-out fuses c/w cartridge fuse	no.	1		
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
A	<u>EARTHING.</u> Earthing at looping box comprising of the following:- a) 15 mm x 1800 mm earth rod as FURSE cat.No. RB 105. b) 15 mm dia. Driving stud as FURSE cat.No. ST100. c) Rod to tape clamp as FURSE. d) Concrete inspection pit as FURSE cat. No.PT005. (or a well made 320mm x 320mm x 300mm) e) 25x3mm copper tape <u>NURSE CALL SYSYTEM</u>				
B	Nurse call system points comprising of wiring in 6 core PVC insulated copper cable drawn in concealed 20mm dia. HG conduits.	NO	26		
C	Wall mounted over door lights for Nurse call system.	NO	1		
D	Nurse call system pull cord call switch on bedhead unit	NO	26		
E	Nurse call/reset switch on bedhead unit	NO	26		
F	250 VAC 50 HZ, flush mounted Nurse call control panel with a minimum of 24 No. patient tations, alarm sounder, lamp test facility for the dome lights and LEDs, continuous supervision of addressable devices to Engineer's approval.	LM	1		
	Total to collection				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>COLLECTION</u>				
A	COLLECTION FROM PAGE ELEC 1				
B	COLLECTION FROM PAGE ELEC 2				
C	COLLECTION FROM PAGE ELEC 3				
D	COLLECTION FROM PAGE ELEC 4				
	TOTAL TO SUMMARY FOR INPATIENT BLOCK				

MALE INPATIENT WARD SUMMARY PAGE

	TOTAL	
Total For Male Ward Builders Works from page 16		
Total For Male Ward Plumbing Works from page P13		
Total For Male Ward Electrical Works from page ELEC/5		
Allow a sum for Project management		200,000
TOTAL FOR MALE WARD WORKS CARRIED TO GRAND SUMMARY		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PAEDIATRIC INPATIENT WARD</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURE (All Provisional)</u> <u>Excavation and Earthworks</u> Note: Include Plunking and strutting and keeping excavation free of water in earth work rates				
A.	Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed	580	SM		
B.	Excavate oversite averaging 300mm deep and cart away	552	SM		
C.	Excavate foundation trench not exceeding 1.50 metres deep starting from reduced level	91	CM		
D.	Excavate for column bases ditto	48	CM		
E.	Extra over for excavating in rock irrespective of depth	91	CM		
F.	Return fill and ram selected excavated materials around foundations	180	CM		
G.	Load and cart away excess excavations as directed	50	CM		
	<u>Filling</u>				
H	400mm thick hand packed hardcore filling rolled and compacted in layers not exceeding 150mm thick	500	SM		
I	50mm thick murrum blinding	552	SM		
J	Treat surface of hardcore with "Termidor" insecticide to manufacturers specification and provide 10 years guarantee certificate	552	SM		
K	1000 gauge polythene sheet damp proof membrane on blinded hardcore	552	SM		
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>Concrete Works</u>				
	<u>Mass concrete class 15/20</u>				
A.	50mm blinding strip foundation and column bases	143	SM		
	<u>Vibrated reinforced concrete class 20/20 in:-</u>				
B.	150mm thick floor slab	552	SM		
C.	Column and column bases	12	CM		
D.	Strip foundation	23	CM		
	<u>High tensile steel reinforcement bars to BS 4461</u>				
E.	12mm diameter	544	KG		
F.	10mm diameter	394	KG		
G.	8mm diameter	322	KG		
	<u>Fabric mesh</u>				
H.	Fabric mesh Ref. No. A142 (measured net) (No allowance for laps)	552	SM		
	<u>Sawn formwork to:</u>				
I.	Sides of strip foundation	20	SM		
J.	Sides of columns, column bases	45	SM		
K.	Edges of slab between 75mm and 150mm high	110	LM		
	<u>Natural stone wall bedded and jointed in cement/sand (1:3) mortar reinforced with 40mm hoop iron every alternate course</u>				
L.	200mm thick	388	SM		
	<u>Three ply hessian based bituminous felt horizontal damp proof course to BS 743 ,Type A weighing 3.8kg/m² bedded on cement/sand (1:3) mortar</u>				
M.	200mm wide	259	LM		
	<u>PCC SLAB PAVING</u>				
N.	50mm thick pcc slab paving on and including 50mm thick sand bed and 300mm thick hardcore	132	SM		
P.	300mm wide U-shaped open drain sloped appropriately and jointed in mortar	70	LM		
	ELEMENT NO. 1	TOTAL CARRIED			
	SUBSTRUCTURE	TO SUMMARY			

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u> <u>WALLING</u> <u>Fair dressed natural stone wall bedded and jointed in cement/sand (1:4) mortar (12mm joints) reinforced with 40mm hoop iron every alternate course</u> <u>External walls</u> A. 200mm thick 195 SM B. Extra over for key pointing in flush vertical and recessed horizontal joints 195 SM C. 100mm thick x 200mm high eaves closing 110 LM D. 20mm thick flexcell or other equal and approved expansion joint filler 35 SM <u>Internal walls</u> E. 200mm thick 349 SM F. 100mm thick 49 SM <u>Precast concrete class 25/12 units in:</u> G. 250 x 50mm (average) thick once weathered and throated window cill 52 LM				
	<u>ELEMENT NO. 3</u> <u>TOTAL CARRIED</u> WALLING TO SUMMARY				

[illegible]

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>EXTERNAL DOORS</u>				
A	Glazed 1800x 2400mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 25 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1800x150mm, apply red oxide primer before fixing	1	NO		
B	Glazed 1500x 2400mm high equal double leaf metal door comprising 50 x 40 x 3mm RHS frame fixed to wall with and including fixing cramps, 40 x 45 x 3mm RHS tube stiles top, bottom and 2No. middle rails per leaf, lined both sides with 2mm thick mild steel plate to detail, complete 3No.heavy duty pin hinges, staple, hasps for padlock, 4 No. tower bolts, permanent ventilation size 1200x150mm, apply red oxide primer before fixing	1	NO		
	<u>Glazing</u>				
C	4mm clear sheet glass and glazing with putty in panes of various sizes	4	SM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
D	General surfaces internally	8	SM		
E	Ditto externally	8	SM		
	<u>Supply and fix the following ironmongery with matching screws as Union Catalogue or other equal and approved</u>				
F	5-Lever mortice dead lock cat No. 2101 complete with approved lock furniture	2	NO		
G	38mm diameter x 59mm deep rubber door stop ref No. 8400	17	NO		
H	100mm pairs stainless steel double action spring hinges	12	Prs		
I	100mm pairs brass butt hinges	26	Prs		
J	Three lever rebated mortice lock complete with furniture	4	NO		
	Carried Forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought Forward				
	<u>INTERNAL DOORS</u>				
	<u>Flush doors</u>				
A	45 x 1800x 2400mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	1	NO		
B	45 x 1200x 2400mm high double leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	3	NO		
C	45 x 900 x 2400mm high single leaf double swing solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	1	NO		
D	45 x 900 x 2400mm high single leaf solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	8	NO		
E	45 x 900 x 2100mm high solid core flush door lined with mahogany veneer both sides hardwood lipped all round including hinges	8	NO		
	<u>Wrot Mahogany to door frames and finishings</u>				
F	150 x 50mm frame with 3 labours	113	LM		
G	150 x 50mm transome with 4 labours	12	LM		
H	15 x 40mm moulded architrave	113	LM		
I	25mm diameter moulded quadrant	113	LM		
J	4mm thick clear sheet glass and glazing with beads in panes between 0.15m and 0.5m	8	SM		
	<u>Prepare and apply three coats clear lacquer polyurathane matt to wood</u>				
K	Surfaces not exceeding 100mm girth	226	LM		
L	Surfaces exceeding 100mm but not exceeding 200mm girth	125	LM		
M	General surfaces	95	SM		
N	3 lever mortice lock,with polished brass lever furniture and including all other necessary furniture.	17	NO		
P	Aluminium kicking plate,1150×500x2mmmm fixed to flush doors	6	NO		
Q	Aluminium kicking plate,850×500x2mm fixed to flush doors	28	NO		
R	Aluminium kicking plate,1750×500x2mm fixed to flush doors	2	NO		
S	Overhead door closer ; cat. No. 8823	3	NO		
T	Floor spring double action Ref. Yale 913.02 90° S.O	3	NO		
	ELEMENT NO. 5				
	DOORS				
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u> <u>WINDOWS</u> <i><u>The following in purpose made steel casement windows in heavy duty 'T' and 'Z' section frame including mullions, transomes in-built mosquito proof gauze permanent vents hood with at top, high quality heavy duty polished brass ironmongery to M/s Kensmetal Ltd or other equal and approved fasteners, window stays, fixing lags, and apply primer before fixing (small panel windows) with intergrated burglar proofing in tubes welded horizontally and vertically in line with opening light casement, transomes and mullions (m/s)</u></i>				
A.	1500 x 1500mm high comprising side hung, top hung and fixed lights to detail	19	NO		
B.	1500 x 1200mm high ditto	1	NO		
C.	1200 x 900mm high ditto	2	NO		
D.	600 x 900mm high ditto	14	NO		
	<u>Burglar proofing</u>				
E.	Mild steel grille framed with 25x25x3mm thick RHS section including assembly and fixing to opening cutting and pinning lugs to concrete and bedding frame in cement and sand mortar (1:4)	55	SM		
	<u>Glazing</u>				
F.	4mm clear sheet glass and glazing with putty in panes of various sizes	45	SM		
G.	Ditto obscure glass pane	10	SM		
	<u>Wrot prime grade cypress</u>				
H.	150 x 150mm pelmet comprising 125 x 25mm thick top, 125 x 25mm fascia with 2No. labours, 40 x 40mm wrot bearers, 2No. brass curtain rails, rollers, stoppers, 125 x 125 x 25mm thick end brackets to detail	52	LM		
I.	125 x 25mm window board	52	LM		
J.	25mm quadrant	52	LM		
	<u>Touch up primer after fixing and apply three coats gloss oil paint to metal</u>				
K.	General surfaces internally	55	SM		
L.	Ditto externally	55	SM		
M.	Burglar proofing	110	SM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>External Wall Finishes</u>				
A.	12mm cement/sand (1:4) render to columns and ringbeams	77	SM		
B.	12mm cement/sand (1:4) render to reveals of niches not exceeding 300mm wide around windows and doors	133	LM		
C.	12mm thick cement/sand render to plinth	44	SM		
D	Eaves boarding; in 20mm thick Upvc boarding	66	SM		
E	50 x 50mm cypress brandering	205	LM		
F	75 x 50mm moulded cypress cornice	213	LM		
	<u>Internal Wall Finishes</u>				
	<u>Cement, lime, sand plaster</u>				
G	12mm cement/lime/sand (1:1:6) fine plaster to walls and beams internally	787	SM		
H	20mm cement/sand (1:4) render to receive ceramic tiles	250	SM		
	<u>Glazed wall tiles to manufacturer</u>				
I	250 x 250x6mm thick patterned glazed wall tiles fixed with adhesive to rendered surfaces (m/s) with and including rounded plastic edge tiles (2100mm high)	250	SM		
J	Extra over for 75 mm wide decorative band	50	LM		
	<u>Floor Finishes</u>				
	<u>Cement/sand (1:4) screed</u>				
K	30mm thick to receive ceramic tiles	415	SM		
	<u>Ceramic floor tile</u>				
L	100 x 20mm skirting	350	LM		
M	330 x 330x6mm fixed onto prepared screed (m/s) with manufacturer's approved adhesive	500	SM		
	<u>Terrazzo floor tile</u>				
N	15mm thick cement and sand (1:4) screed wood floated to receive terazzo (m/s)	85	SM		
P	25mm Terrazzo: first coat of cement and sand (1:3); second of cement and local marble chippings (1:2); machine polished smooth	85	SM		
Q	20 x 100 mm high skirting with rounded top edge and coved at junction to paving	82	LM		
R	Plastic dividing strip	88	LM		
	Carried Forward				

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u> <u>Externally</u> <u>Prepare and apply undercoats and three coats plastic emulsion paint to:</u> A. Plastered external columns,ringbeams 77 SM B. Plastered niches and reveals not exceeding 300mm wide 133 LM <u>Internally</u> <u>Prepare and apply three coats silk viny paint to</u> C. Plastered walls and cocrete surfaces 787 SM <u>Prepare and apply three coats plastic emulsion paint to:-</u> D. Chipboard ceiling 500 SM <u>Prime back of wood before fixing</u> E. Surfaces not exceeding 100mm girth (cornice) 484 LM <u>Prepare and apply primer two undercoats and one gloss oil finishing coat to wood</u> F. Surfaces not exceeding 300mm girth (cornice) 484 LM <u>Prepare and apply two coats black bituminous paint to:</u> G. Rendered plinth externally 44 SM				
	<u>ELEMENT NO. 8</u> <u>PAINTING AND DECORATING</u>	<u>TOTAL CARRIED TO SUMMARY</u>			

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 10</u> <u>Builder's Work</u> The contractor shall here allow all builder's work in connection with Electrical and Mechanical Engineering Installation The builders work shall include but not limited to a) Chases in wall, concrete work, and make good b) Forming, making or leaving holes, etc in masonry concrete or wood work c) Making good all disturbed area d) Excavations refill and disposal of spoil <u>Electrical Work</u> A. Allow for all builder's work in connection with Electrical Engineering Installations <u>Mechanical Engineering</u> B. Allow for all builder's work in connection with Mechanical Engineering Installations				
	<u>ELEMENT NO. 10</u> <u>BUILDER'S WORK</u>				
	<u>TOTAL CARRIED TO</u> <u>SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	<u>ELEMENT</u>				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE CONCRETE				
3	WALLING				
4	ROOF				
5	DOORS				
6	WINDOWS				
7	FINISHES				
8	PAINTING AND DECORATING				
9	FITTINGS AND FIXTURES				
10	BUILDER'S WORK				
	<u>TOTAL CARRIED TO</u>				
	PAEDIATRIC INPATIENT WARD SUMMARY				

**PAEDIATRIC WARD PLUMBING
WORKS**

SANITARY FITTINGS

Item	Description	Unit	Qty	Rate (Kshs)	Amount
	Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Twyfords Ltd 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				
	Water Closet				
A	Squatting water closet suite in vitreous china comprising of water closet bowl with top plate and integral foot threads, S-trap connector, 9 litres high cistern and fittings and pull chain including siphon, 15mm dia side inlet ball valve, 20mm dia side overflow, plastic flush pipe, inlet connector and cistern supports. All to be as "Twyfords Oriental" or approved equivalent.	No	5		
	Medical Wash Hand Basin				
C	Counter top Twyfords "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	1		
	Soap Dish				
D	Twyfords semi-recessed built in soap tray in vitreous china size: 305 x 150mm	No	3		
	Robe hook				
E	Robe hook in vitreous china and in white colour mounted unto a concealed screw to wall wedges, to be as Twyfords OC 6858 1998 or approved equivalent.	No	3		
	Towel rail				
F	Twyfords Bathrooms Ltd Ref. No. PB 0363 CP chrome plated screw to wall Towel Rail 650mm long complete with screws.	No	4		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	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 Twyford's "SEMI RECESSED & ORNAMENTAL" accessories Ref. No. VC 9808 WH	No	5		
B	Wash hand basin Wash hand basin size 510 x 420mm with one tap holes and chain stay hole, 32mm diameter chrome plated pop up chain waste, concealed wall brackets, chrome plated single tap hole basin mixer as Cobra and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. The wash hand basin to be as Twyford's 'Sola 510' or equal and approved.	No	13		
C	Shower fitting Concealed shower mixer for hot and cold water consisting of 15mm chrome plated riser pipe to connect the water to a swivel/ adjustable shower rose, chrome plated handles and stop corks and other necessary fittings & accessories. All to be as Bricon/aztec or equal and approved.	No	4		
D	Baby bath Vitreous china baby bath of size 510 x 650mm with two tap holes complete with supporting front legs and bearers in stainless steel, 32mm diameter waste fitting with removable overflow tube, lever operated mixer tap and chrome plated handles. All as Twyford's baby bath or approved equivalent.	No	1		
E	Hand drier Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m ³ /min) and to be of size 270x264x143mm deep It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Mediclinic or approved equivalent.	No	2		
(P2) Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	Soap Dispenser Soap Dispenser, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, lock and key complete with initial fill of soap gel. The soap dispenser to be as ZALPON'S MARK 7 model, size 125 x 100 x 290mm high or approved equivalent	No	2		
B	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	1		
C	Dhobi Sink Heavy Duty stainless steel dhobi sink of size 675 x 485 x 300 mm deep in 16 SWG as manufactured by ASL 131 or equivalent suitable for wall mounting with 1 No 15 mm diameter chrome plated back inlet bib tap as Cobra Ref 107 CP, 40 mm diameter chrome plated bottle trap and chain waste fitting and plug.	No	1		
D	Sterilization Sink Hospital sterilization sink in stainless steel, size 600 x 600mm x 450mm deep with two tap holes, stainless steel cantilever brackets(pair) , front leg supports in stainless steel and unslotted chain waste fitting complete with lever action mixer tap for hot and cold water. All as Twyford's Hospital Sink or approved equivalent.	No	1		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
	Mirror				
A	Mirror of size 1,200 x 600x 6mm thick, plugged and screwed to wall with 6No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	No	1		
B	Mirror of size 600 x 600x 6mm thick, plugged and screwed to wall with 6No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	No	1		
	Scrub-Up				
C	Twyford Scrub-up Trough 2500mm long with Left hand outlet Cat No. SS9122SS Complete with 3No. wall mounted Lever action mixer taps Cat No. SF1099CP 11/2Chrome plated Waste fitting and as trap	No	0		
	Flexible Tubing				
D	15mm diameter x 300mm long chrome plated flexible connectors.	No	6		
	Angle valve				
E	Chrome plated Angle shut-off valve as Cobra or approved equivalent	No	40		
	Sluice Unit				
F	Twyford's "Grafton B.P.S." hopper cat.no. FC4076WH loose-trap FC44612WH complete with Vitreous china high level cistern 7.5 Litre capacity with valveless fittings and reversible chain pull CX7610WH, cistern supporting brackets SR1300XX stainless steel flushpipe with spreader and clips SS6020SS Combine bedpan and urinal bottle jet with 1/2" lever handle taps, SF6504CP legs and bearers for hopper SR3053XX sinks 760mm x 455mm FC1350WH chain and waste 11/2" chrome plated WF4338CP waste pipe for the hopper WF9685WH legs and bearers for sink SR3043XX drain with anti-drip stip FC9684WH legs and bearers for drain SR3052XX chrome plated extended bib tap 1/2" SF5204CP Chrome plated Lever action mixer tap flexible hose and handspray SF7053CP.	No	1		
(P4) Sub-total carried forward to collection page					

COLLECTION PAGE

	Sanitary Fittings	Amount (KShs)
1	Sub-total brought down from page P-1	
2	Sub-total brought down from page P-2	
3	Sub-total brought down from page P-3	
4	Sub-total brought down from page P-4	
	Total for Sanitary Fittings Carried Forward to Summary Page	

Item	Description	Unit	Qty	Rate (KShs)	Amount (KShs)
	<u>INTERNAL PLUMBING WORKS- COLD</u> WATER (ALL PROVISIONAL) Supply, deliver and install pipes, tubing and fittings as described and shown on the drawings. The pipes shall be PN 25 PPR pipes where exposed to adverse weather condition and all conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures. PPR Pipes A 20mm diameter pipework B 25mm diameter pipework C 32mm diameter pipework D 40mm diameter pipework E 50mm diameter pipework Bends F 20mm diameter bends G 25mm diameter bends H 32mm diameter bends				
	Sub-total carried forward to collection page				

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	40mm diameter bends	No.	20		
B	50mm diameter bends	No.	10		
	Tees				
C	25mm diameter equal tee	No.	40		
D	32mm diameter equal tee	No.	25		
E	40mm diameter equal tee	No.	60		
F	50mm diameter equal tee	No.	30		
	Reducers				
G	50 x 40mm diameter reducer	No.	20		
H	50 x 32mm diameter reducer	No.	25		
I	50 x 25mm diameter reducer	No.	25		
J	40 x 32mm diameter reducer	No.	50		
K	40 x 25mm diameter reducer	No.	30		
L	40 x 20mm diameter reducer	No.	20		
M	32 x 25mm diameter reducer	No.	22		
N	32 x 20mm diameter reducer	No.	24		
O	25 x 20mm diameter reducer	No.	50		
	Male/Female Threaded Brass Adapters				
P	32mm threaded brass coupling	No.	35		
Q	25mm threaded brass coupling	No.	37		
R	20mm threaded brass coupling	No.	50		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (KShs)	Amount (KShs)
	Valves				
A	20mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 PN 20 for series B rating, with wheel and head joints to steel tubing and complete with round male threaded transition fittings. The gate valve to be as PEGLER or approved equivalent.	No.	4		
B	25mm ditto	No.	2		
C	40mm ditto	No.	4		
D	50mm ditto	No.	3		
	Unions				
F	25mm diameter pipe union	No.	3		
G	40mm diameter pipe union	No.	10		
H	50mm diameter pipe union	No.	7		
	Water storage tank in the roof space				
I	Supply and inatall rectangular loft water storage tank of capacity 920 made from plastic and of dimension 1270x1270x580 mm Rotor or approved equivalent. The tank shall be complete with inlet, outlet, overflow and drain connection. It should have a 50mm diameter medium pressure ball valve with silencer pipe, bronze lever and copper float all as “Glenfield” or approved equivalent. The tank shall be firmly supported on the roof space.	No.	4		
Sub-total carried forward to collection page					

	Internal plumbing	Amount (KShs)
1	Sub-total brought down from page P-6	
2	Sub-total brought down from page P-7	
3	Sub-total brought down from page P-8	
	Total for Internal Plumbing Carried Forward to Summary Page	

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
	(ALL PROVISIONAL)				
	FOUL WATER INTERNAL DRAINAGE				
	Supply ,deliver and install the following UPVC, MUPVC, soil and waste systems respectively to B.S 5255 with fittings fixed to Manufactures Printed instructions and manufactured by reputable manufacturers. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
	MuPVC and uPVC Waste and Soil pipework				
A	100mm diameter heavy gauge grey mUPVC pipe	Lm	120		
B	50mm diameter waste pipe	Lm	100		
C	40mm diameter waste pipe	Lm	120		
	Bends				
D	100mm diameter long radius bend	No.	15		
E	100mm diameter short radius bend	No.	50		
F	100mm diameter sweep bend	No.	35		
G	50mm diameter bend	No.	50		
H	40mm diameter 90° bend	No.	80		
	Tees				
I	100mm diameter sweep tee	No.	40		
J	50mm diameter sweep tee	No.	25		
K	40mm diameter sweep tee	No.	30		
	Access Caps				
L	100mm diameter access cap	No.	25		
(P10) Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	50mm diameter access cap	No.	20		
B	40mm diameter access cap	No.	30		
	Boss Connectors				
C	100 x 50mm diameter boss connector	No.	32		
D	100 x 40mm diameter boss connector	No.	15		
	WC Connectors				
E	100mm diameter WC connector	No.	10		
	Traps				
F	100 x 50mm diameter floor trap and grating	No.	12		
	Inspection Chamber				
G	Man-hole or inspection chamber size 600 x 450 mm by approximately 750mm deep using 200mm thick base (concrete class N15) with 250mm thick benching including forming drain channels, and 200mm thick solid concrete block walling, including 15mm internal plaster and top slab/screed, including pit digging, backfilling, carting away surplus and making good.	No.	10		
	Man-hole frame				
H	Man-hole frame (light duty) in cast iron size 0.6 x 0.45m with recessed cover with concrete infill, finished to approval.	No.	10		
	Weathering Slates and Vent Cows				
I	100mm diameter weathering slate and apron.	No.	5		
J	100mm diameter vent cowl	No.	5		
Sub-total carried forward to collection page					

Item	Description	Unit	Qty	Rate (Kshs)	Amount (KShs)
A	Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.		ITEM		
B	Construct water tank masonry base diameter 2500mm and 300mm above general ground level. The base should have 200mm thick foundation footing, 200mm thick foundation wall including along diameter, 300mm thick hardcore layer and 150mm thick floor slab reinforced with y8 at 200mm centres both ways.		ITEM		
C	10,000 litres plastic tank UPVC cylindrical as roto or equal and approved.	1	NO		

COLLECTION PAGE

Internal drainage

Amount (KShs)

4 Sub-total brought down from page P-10

5 Sub-total brought down from page P-11

6 Sub-total brought down from above

**Total for Internal Drainage Carried
Forward to Summary Page**

SUMMARY PAGE

	DESCRIPTION	Amount (Kshs)
1	Total for Sanitary Fittings Brought Down from Page P-5.....	
2	Total for Internal Plumbing Brought Down from Page P-9.....	
3	Total for Foul Water Drainage Brought Down from Page P-12	
	P13	
TOTAL FOR PLUMBING AND DRAINAGE CARRIED TO SUMMARY		

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>PAEDIATRIC INPATIENT WARD</u>				
	<i>Supply, install, test and commission the following :-</i>				
	<u>LIGHTING POINTS</u>				
A	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 switching	NO	89		
	b) two way switching	NO	5		
	<u>SWITCHES</u>				
B	10Amps, switch plate as CLIPSAL, MK or approved equivalent as				
	a) one gang one way	NO	56		
	b) two gang one way	NO	4		
	c) three gang one way	NO	3		
	d) one gang two way	NO	2		
	<u>LIGHTING FITTINGS</u>				
C	Lighting fittings complete with bulbs or tubes as follows:				
	a) 18W LED square surface downlighters fitting as THORN or approved equivalent.	NO	20		
	b) 60Watts, spherical screw neck ball fitting as THORN MTC 1060 or approved equivalent	NO	10		
	c) 1x18 Watts Bedhead fluorescent luminaire complete with prismatic diffuser as THORN PPD118 or approved equivalent.	NO	51		
	d) 1x8Watts, Single sided EXIT emergency lighting luminaire as FITZGERALD, THORN or approved equivalent.(TYPE EXIT)	NO	2		
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>fittings contd</u>				
	e)100 Watts, cast aluminium bulkhead fitting for 100 Watts BC lamp with glass bowl as THORN OLG 1100 or approved equivalent.	NO	9		
	f) Standard waterproof IP65 fluorescent fitting with injection moulded polycarbonate body and polycarbonate diffuser c/w 2X36W fluorescent lamps with Switchstart gear. As Thorn Aquaproof.	NO	3		
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
A	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 including all accessories.	NO	57		
B	13 Amps. Moulded plate switched socket outlet with neon indicator as SWE, CLIPSAL or approved equivalent				
	a) single	NO	51		
	b) Twin.	NO	6		
C	Instant shower point comprising wiring in 3x4.0mm ² PVC-SC-CU cables in concealed PVC conduits	NO	1		
D	32 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for item above	No	1		
E	Sterilizers points comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits to sluice rooms	NO	1		
F	20 Amps double pole switches with neon Indicator as CLIPSAL or approved equivalent.	NO	1		
	<i>Total to collection</i>				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>TELEPHONE/DATA AND TV WORKS</u>				
	TV outlet point complete with wiring in CO AXIAL cable drawn in concealed HG PVC conduit including moulded plates	NO	2		
	<u>DISTRIBUTION BOARDS/CONSUMER UNIT</u>				
	8ways SP flush mounted consumer unit complete with 100A integral isolator as HAGER/HAVELLS or approved equivalent complete with all accessories but excluding MCBs.	NO	1		
A	MCB's for item above				
	(a) 10A, SP	NO	3		
	(b) 20A, SP	NO	2		
	(c) 32A SP	NO	2		
	(e) Blanking plates	NO	1		
	SUB-MAIN POWER DISTRIBUTION				
C	25mm 4Core PVC/SWA/PVC Copper cables drawn in duct from power house to LV Subboard	LM	50		
D	Trenching to a depth of a minimum of 700mm Tiling with 'HATARI 'tiles & Back filling of the trenches for item above	LM	50		
E	3x16.0mm ² single CU PVC cables from looping box to consumer unit drawn in 25mm HG PVC conduit	LM	10		
F	Standard looping box complete with 3no. 100A cut-out fuses c/w cartridge fuse	no.	1		
	Total to collection				

ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
A	<u>EARTHING.</u> Earthing at looping box comprising of the following:- a) 15 mm x 1800 mm earth rod as FURSE cat.No. RB 105. b) 15 mm dia. Driving stud as FURSE cat.No. ST100. c) Rod to tape clamp as FURSE. d) Concrete inspection pit as FURSE cat. No.PT005. (or a well-made 320mm x 320mm x 100mm concrete pit) e) 25x3mm copper tape <u>NURSE CALL SYSTEM</u>				
B	Nurse call system points comprising of wiring in 6 core PVC insulated copper cable drawn in Concealed 20mm dia. HG conduits.	NO	26		
C	Wall mounted over door lights for Nurse call System.	NO	1		
D	Nurse call system pull cord call switch on bedhead unit	NO	26		
E	Nurse call/reset switch on bedhead unit	NO	26		
F	250 VAC 50 HZ, flush mounted Nurse call control panel with a minimum of 24 No. patient stations, alarm sounder, lamp test facility for the dome lights and LEDs, continuous supervision of Addressable devices to Engineer's approval.	LM	1		
	Total to collection				

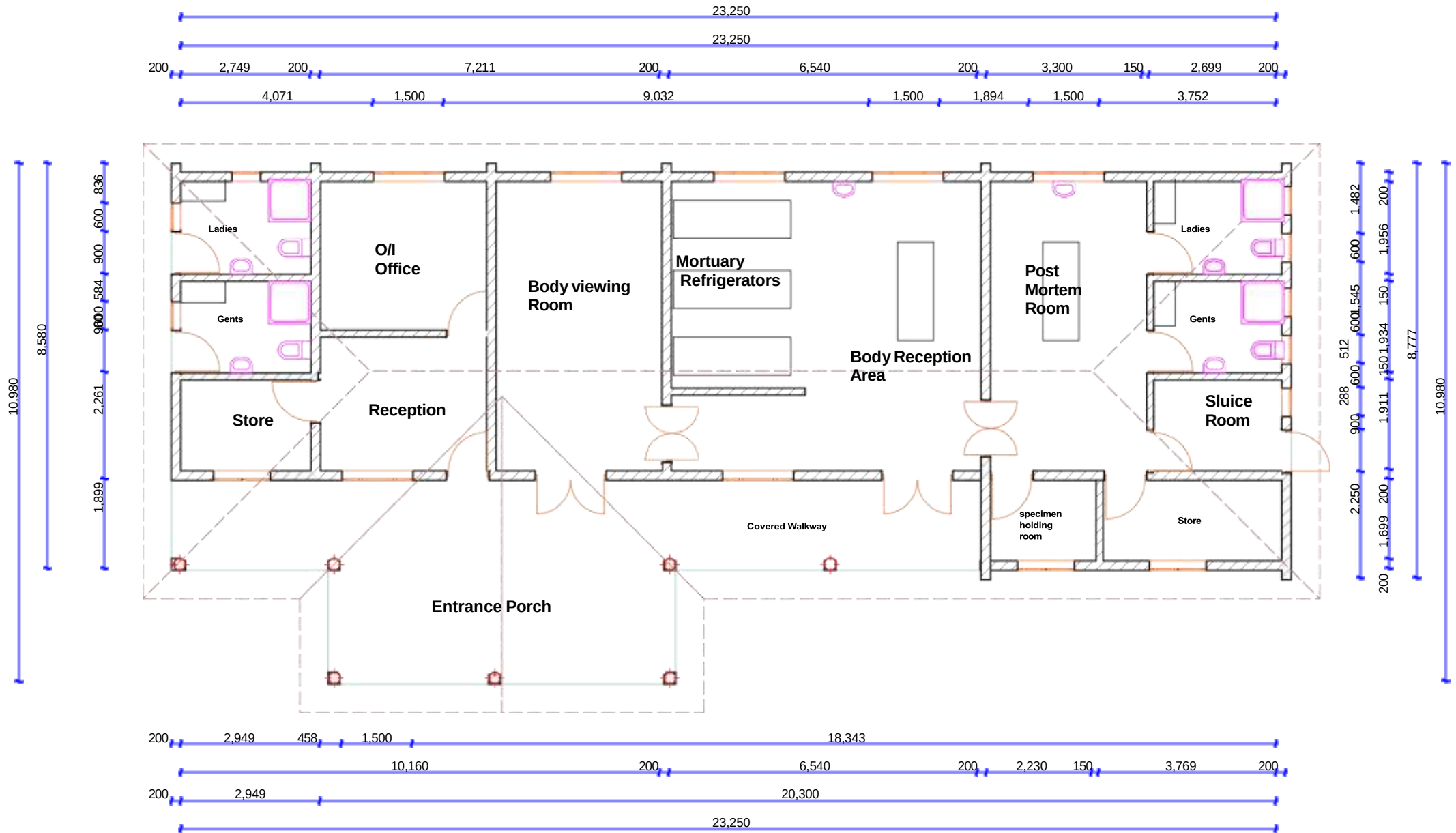
ELECTRICAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>COLLECTION</u>				
A	COLLECTION FROM PAGE ELEC 1				
B	COLLECTION FROM PAGE ELEC 2				
C	COLLECTION FROM PAGE ELEC 3				
D	COLLECTION FROM PAGE ELEC 4				
	TOTAL TO SUMMARY FOR INPATIENT BLOCK				

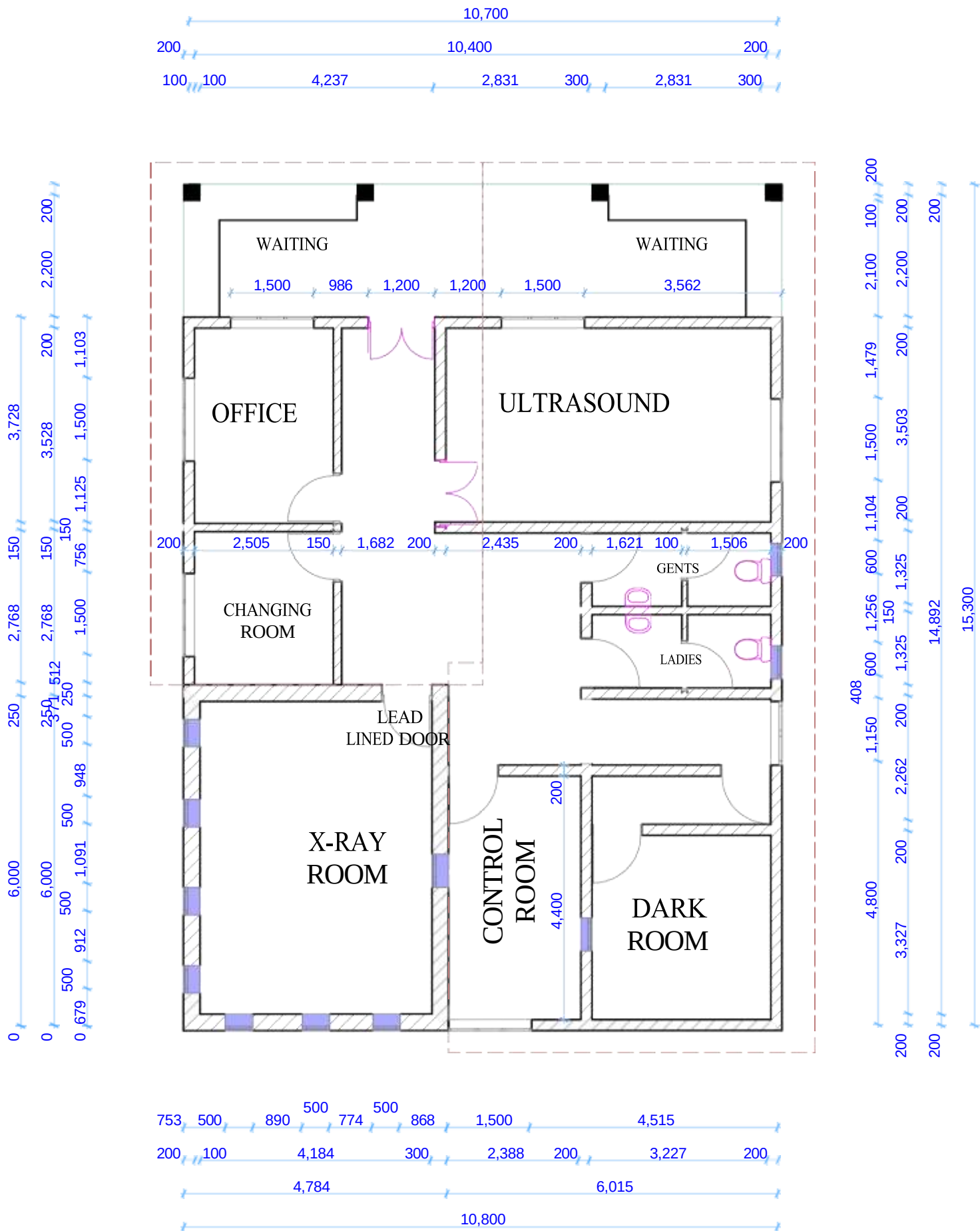
PAEDIATRIC INPATIENT WARD SUMMARY PAGE

	TOTAL	
Total For Paediatric Ward Builders Works from page16		
Total For Paediatric Ward Plumbing Works from page P13		
Total For Paediatric Ward Electrical Works from page ELEC/5		
Allow a sum for Project Management		200,000
TOTAL FOR PAEDIATRIC WARD WORKS CARRIED TO GRAND SUMMARY		

GRAND SUMMARY OF BILLS OF QUANTITIES		
	UPGRADING & OPERATIONALIZATION OF SOGOO HEALTH CENTRE TO AMALO SUB COUNTY.	
BILL NO.	DESCRIPTION	AMOUNT (Kshs)
1	PARTICULAR PRELIMINARIES	
2	GENERAL PRELIMINARIES	
3	CONSTRUCTION OF OPD BLOCK & ASSOCIATED WORKS	
4	CONSTRUCTION OF FEMALE WARD BLOCK & ASSOCIATED WORKS	
5	CONSTRUCTION OF MALE WARD BLOCK & ASSOCIATED WORKS	
6	CONSTRUCTION OF PAEDIATRIC WARD BLOCK & ASSOCIATED WORKS	
7	CONSTRUCTION OF TWIN THEATRE BLOCK	
8	CONSTRUCTION OF RADIOLOGY BLOCK	
9	CONSTRUCTION OF CASUALTY BLOCK & ASSOCIATED WORKS	
10	CONSTRUCTION OF CSSD BLOCK & ASSOCIATED WORKS	
11	CONSTRUCTION OF MORTUARY BLOCK & ASSOCIATED WORKS	
12	CONSTRUCTION OF 1 NO 2 DOORS ABLUTION BLOCK & ASSOCIATED WORKS	
13	CONSTRUCTION OF 1 NO 8 DOORS ABLUTION BLOCK & ASSOCIATED WORKS	
14	CONSTRUCTION OF SEPTIC TANK & ASSOCIATED WORKS	
15	CONSTRUCTION OF PERIMETER FENCE & ASSOCIATED WORKS	
16	INSTALLATION AND COMMISSIONING OF GENSET & HOUSING	
17	INSTALLATION AND COMMISSIONING OF DIESEL POWERED INCINERATOR	
18	INSTALLATION & COMMISSIONING OF 3 PHASE POWER TRANSFORMER	
19	EXTERNAL WORKS (Landscaping, walk ways, car park and drainage works)	
A	SUB TOTAL (A)	
B	Add 5 % of subtotal of bills for contingencies to be expended in whole ' or in part as directed by the Project Manager ((A) x 0.025).	
C	Add 16% VAT = (SUB TOTAL A) X 16%).	
	(SUB TOTAL A + B(Contingencies) + C (16% V.A.T)	
TOTAL GRAND SUMMARY CARRED TO THE FORM OF TENDER KSH		



MORTUARY FLOOR PLAN



RADIOLOGY FLOOR PLAN



VARIATIONS TABLE

NOTES

GENERAL

-All dimensions are shown in metres and millimetres unless otherwise specified.
-Drawings are not to be scaled.
-Contractor must check and verify all dimensions on site before commencement of any work

CIVIL WORKS

- All slabs at ground level to be poured over 1000 gauge polythene sheeting on 50mm stone dust, on hardcore.
- All soil under slabs and all around external foundations to be treated for termite control.
- All soils on cut embankments to be stabilized and the slope not to exceed the natural angle of refuse.

STRUCTURAL

- All R.C work refer to Structural Engineer's detail.
- Depth of the foundation to be determined on site to S.E approval
- All walls less than 200mm thick to be reinforced with hoop irons at every alternate course.
- All adjacent RC work and masonry walls to be tied with strap irons at every course

FIRE APPLIANCES AND SAFETY

- Design is in compliance with NFPA 10 standard
- 6No Dry powder of portable fire extinguishers
- 3No carbon Dioxide of portable fire extinguishers
- 4No Sand buckets of portable fire extinguishers
- Design is in compliances with NFPA 30 flammable and combustible code

MECHANICAL

- All plumbing and drainage to comply with county government specifications
- Drainage ducts to accessible from all floors
- Drains passing beneath buildings and driveways to be in 150mm concrete
- All underground foul and waste drain pipes shall comply with BS5525.
- All inspection chambers covers and framing shall be cast iron to comply with BS497 table 2 grade A
- The storm water pipe to comply with BS 556
- The minimum slope in the drain to be 1%
- No chases will be allowed in the slabs for the pipes.
- Sleeves will be allowed with written approval of the S/E
- No cutting of concrete without the express approval of the Arch or S/E
- All testing of pipes must be completed before plastering
- All mechanical work must be coordinated with electrical works and any conflicts cleared before works begin.

PROJECT TITLE:

PROPOSED MODERN E.C.D.E CENTRE

CLIENT:



DESIGNED BY:

SALAASH. JK (B.L. ARCH & M .ARCH).

DRAWN BY:

SALONIK TITUS (B. ARCH.)

DRAWINGS TITTLE:

- SEPTIC TANK DETAIL

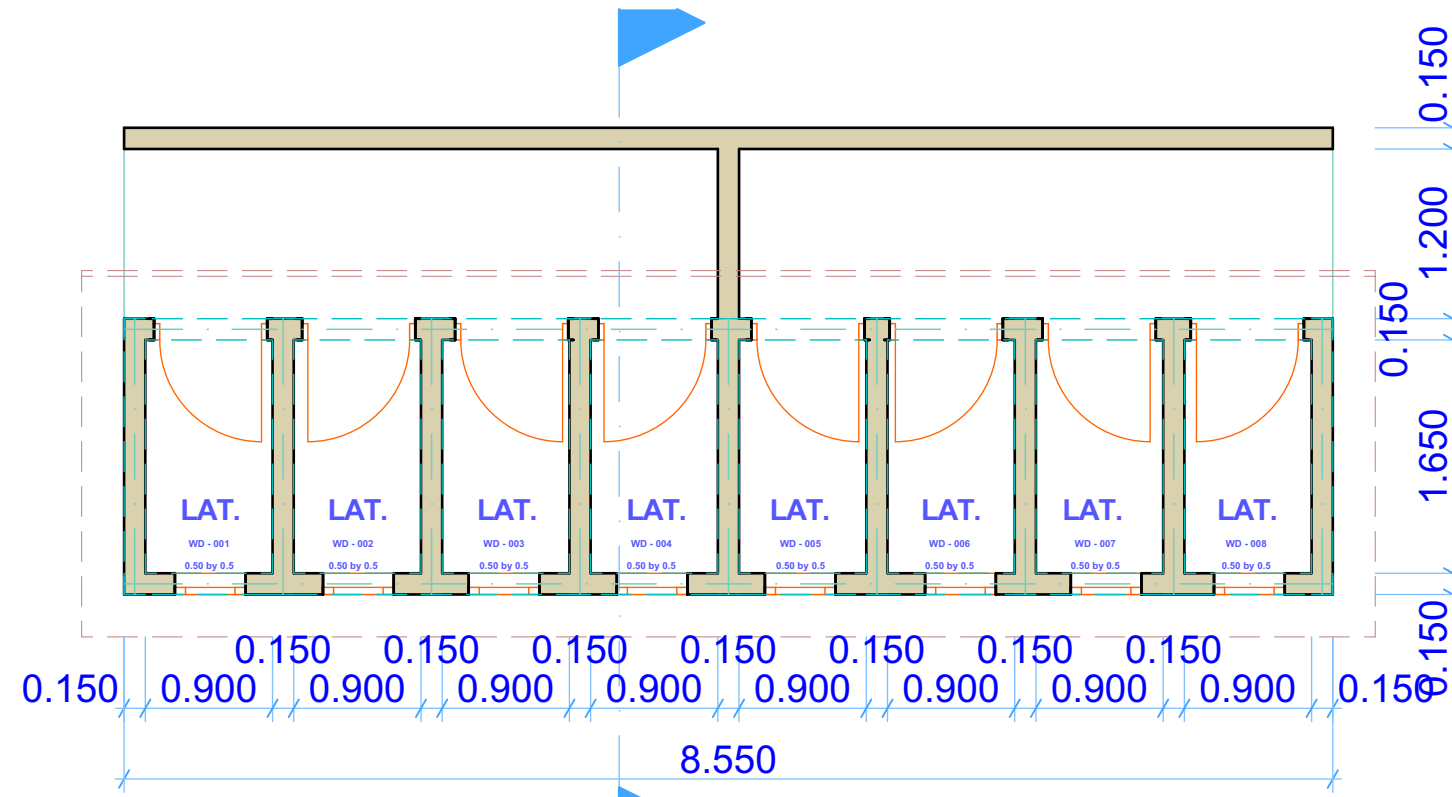
DRAWINGS SCALE:

- AS INDICATED

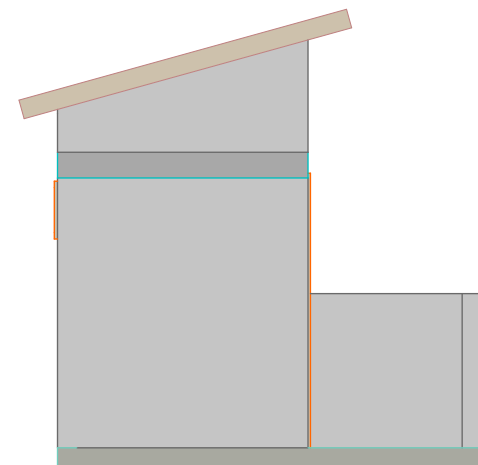
DRAWINGS NO:

- 04

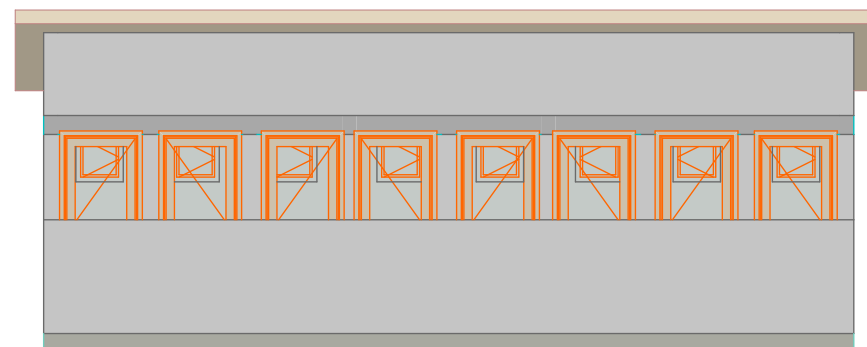
[illegible]



FLOOR PLAN



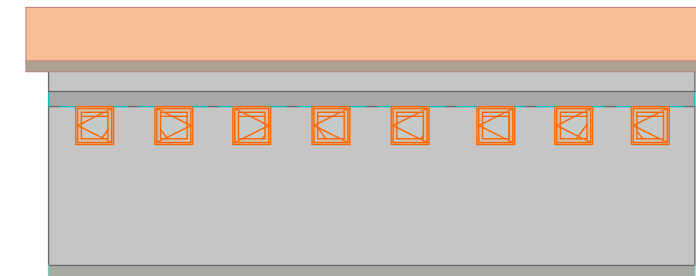
EAST ELEVATION



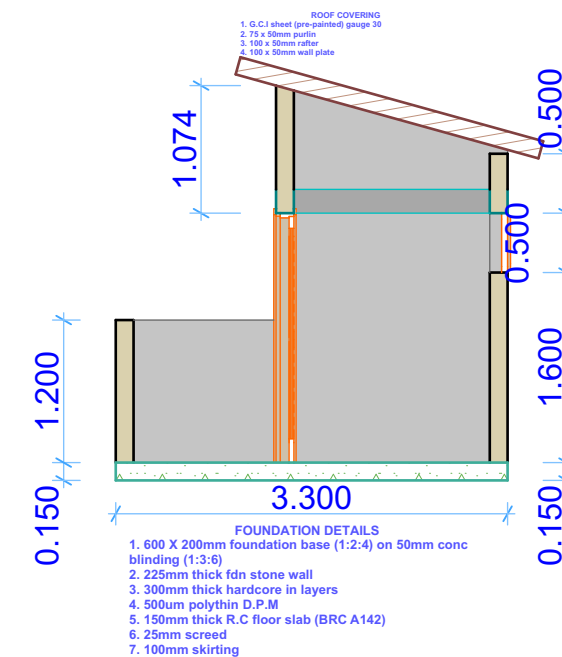
NORTH ELEVATION



GENERIC PASPECTIVE

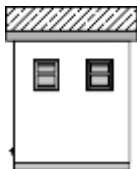


SOUTH ELEVATION



**NAROK COUNTY GOVERNMENT
DEPARTMENT OF PUBLIC WORKS
P. O. BOX 898-20500
NAROK**

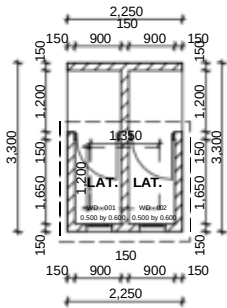




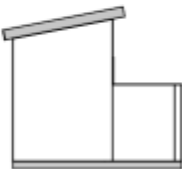
SOUTH ELEVATION



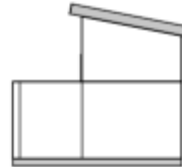
NORTH ELEVATION



FLOOR PLAN



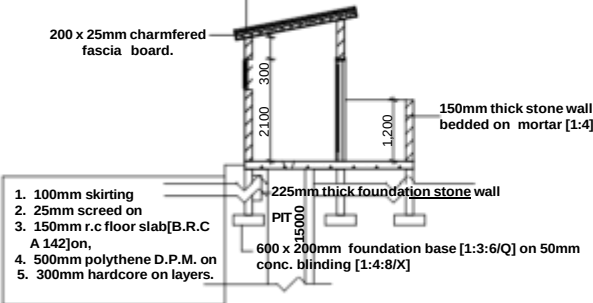
EAST ELEVATION



WEST ELEVATION

ROOFING & COVERING

1. G.C.I sheet [pre- painted] gauge 30
2. 75 x 50mm purlin
3. 100 x 50mm rafter
4. 100 x 50mm wall plate



SECTION 01-01

PROJECT

PROPOSED TYPICAL
PIT LATRINE BLOCK

CLIENT

NAROK COUNTY GOV.

TITLE

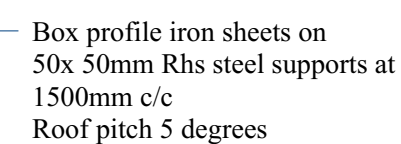
PLAN
ELEVATIONS
SECTION

NOTES

- 1) ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- 2) DEPTH OF FOUNDATION TO BE DETERMINED ON SITE.
- 3) PERMANENT VENTS TO BE PLACED ABOVE EVERY DOOR AND WINDOW.
- 4) HARDWARE FILLING TO BE WELL COMPACTED.
- 5) HOOP IRON TO BE PROVIDED AFTER EVERY ALTERNATE STONE COURSE.

DEPARTMENT OF PUBLIC WORKS





- 50x 50mm Rhs steel supports at 1500mm c/c

- 600X600mm concrete slabs laid in 3/4 rows

WALKWAYS

NEW WALKWAYS
New walkways connecting the OPD, Laboratory, Maternity, Radiology, Inpatient and Mortuary Units

DOOR SCHEDULE



NOTES

1. Dimensions are in millimetres unless otherwise stated.
2. Depth of foundation to be determined on site.
3. Permanent vents to be placed above all the doors and windows except WC doors.
4. All walls below 200 mm to be reinforced with hoop iron at every alternative course.
5. Provide damp proof course (D.P.C.) under all walls.

REVISIONS

[illegible]

PROJECT TITLE
**PROPOSED CSSD FOR
SOGOO LEVEL 4 HOSPITAL**

CLIENT
NAROK COUNTY GOVERNMENT

**PUBLIC WORKS OFFICE
NAROK COUNTY**



DRAWING TITLE

WORKING DRAWING

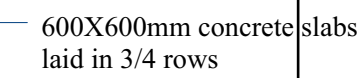
SCALE
1:100

DATE
9/15/202

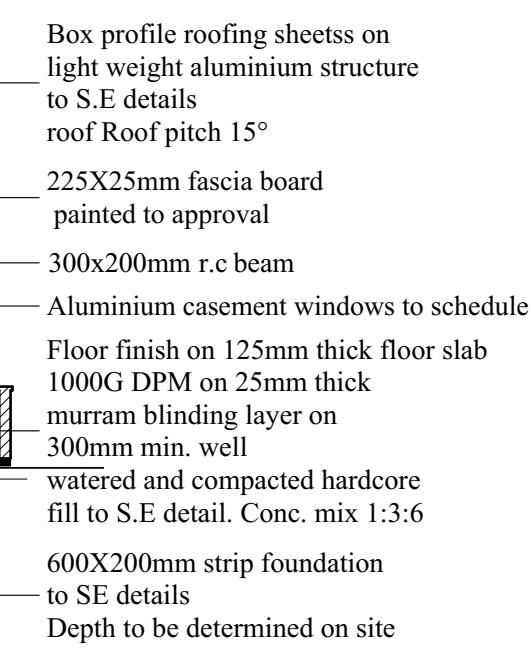
⁴DESIGNED

	DRAWN

	CHECKED

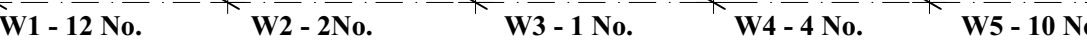


New walkways connecting the OPD, Laboratory, Maternity, Radiology, Inpatient and Mortuary Units



SECTION X-X

DOOR SCHEDULE



WINDOW SCHEDULE



1. Dimensions are in millimetres unless otherwise stated.
2. Depth of foundation to be determined on site.
3. Permanent vents to be placed above all the doors and windows except WC doors.
4. All walls below 200 mm to be reinforced with hoop iron at every alternative course.
5. Provide damp proof course (D.P.C.) under all walls.

[illegible]

CHECKED
S.TINGISHA